

# Image Super-Resolution Using Deep Convolutional Net

IEEE Transactions on Pattern Analysis and Machine Intelligence  
38, 295-307

DOI: [10.1109/tpami.2015.2439281](https://doi.org/10.1109/tpami.2015.2439281)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Pansharpener by Convolutional Neural Networks. Remote Sensing, 2016, 8, 594.	1.8	719
2	Machine Learning Based Single-Frame Super-Resolution Processing for Lensless Blood Cell Counting. Sensors, 2016, 16, 1836.	2.1	42
3	SERF: A Simple, Effective, Robust, and Fast Image Super-Resolver From Cascaded Linear Regression. IEEE Transactions on Image Processing, 2016, 25, 4091-4102.	6.0	42
4	Coupled dictionary learning for multimodal image super-resolution. , 2016, , .		8
5	Onsager-corrected deep learning for sparse linear inverse problems. , 2016, , .		61
6	Single picture super resolution of natural images using N-Neighbor Adaptive Bilinear Interpolation and absolute asymmetry based wavelet hard thresholding. , 2016, , .		6
7	Single image super-resolution with non-local balanced low-rank matrix restoration. , 2016, , .		2
8	Deep learning for ocean remote sensing: an application of convolutional neural networks for super-resolution on satellite-derived SST data. , 2016, , .		44
9	Comparative experiment and dynamic simulation on cervical traction therapy. , 2016, , .		0
10	A differential excitation based rotational invariance for convolutional neural networks. , 2016, , .		1
11	Single face image reconstruction for super resolution using support vector regression. Proceedings of SPIE, 2016, , .	0.8	0
12	Single image super-resolution based on deep learning and gradient transformation. , 2016, , .		5
13	Hyperspectral image super resolution reconstruction with a joint spectral-spatial sub-pixel mapping model. , 2016, , .		8
14	Image upscaling based convolutional neural network for better reconstruction quality. , 2016, , .		3
15	Joint sub-band based neighbor embedding for image super-resolution. , 2016, , .		6
16	A deep learning based spatial dependency modelling approach towards super-resolution. , 2016, , .		2
17	Low complexity encoder for feedback-channel-free distributed video coding using deep convolutional neural networks at the decoder. , 2016, , .		2
18	Digital Heritage Reconstruction Using Super-resolution and Inpainting. Synthesis Lectures on Visual Computing, 2016, 8, 1-168.	0.7	1

#	ARTICLE	IF	CITATIONS
19	Super-resolution of medical image using representation learning. , 2016, , .		13
20	Anchored fusion for image restoration. , 2016, , .		8
21	Single frame super-resolution using multiple graph structured program. , 2016, , .		1
22	CNN Based Non-Local Color Mapping. , 2016, , .		0
23	A convolutional neural network based single-frame super-resolution for lensless blood cell counting. , 2016, , .		3
24	Video super-resolution reconstruction based on deep convolutional neural network and spatio-temporal similarity. Journal of China Universities of Posts and Telecommunications, 2016, 23, 68-81.	0.8	4
25	Convolutional neural network with gradient information for image super-resolution. , 2016, , .		0
26	Fast Learning-Based Single Image Super-Resolution. IEEE Transactions on Multimedia, 2016, 18, 1504-1515.	5.2	38
27	Antipodally Invariant Metrics for Fast Regression-Based Super-Resolution. IEEE Transactions on Image Processing, 2016, 25, 2456-2468.	6.0	14
28	Robust Single Image Super-Resolution via Deep Networks With Sparse Prior. IEEE Transactions on Image Processing, 2016, 25, 3194-3207.	6.0	223
29	Ultra-Resolving Face Images by Discriminative Generative Networks. Lecture Notes in Computer Science, 2016, , 318-333.	1.0	144
30	A sparse representation based post-processing method for improving image super-resolution. , 2016, , .		0
31	An efficient formulation and parameter selection for multiple image super-resolution. , 2016, , .		0
32	Multiframe super-resolution based on half-quadratic prior with artifacts suppress. Journal of Visual Communication and Image Representation, 2016, 40, 656-670.	1.7	4
33	Depth based super-resolution for multiview images. , 2016, , .		1
34	Super Resolution based on Deep Learning Technique for constructing Digital Elevation Model. , 2016, , .		3
35	Deep Learning and Data Labeling for Medical Applications. Lecture Notes in Computer Science, 2016, , .	1.0	45
36	Depth Map Super-Resolution by Deep Multi-Scale Guidance. Lecture Notes in Computer Science, 2016, , 353-369.	1.0	168

#	ARTICLE	IF	CITATIONS
37	Accelerating the Super-Resolution Convolutional Neural Network. Lecture Notes in Computer Science, 2016, , 391-407.	1.0	1,494
38	Convolutional Neural Network Super Resolution for Face Recognition in Surveillance Monitoring. Lecture Notes in Computer Science, 2016, , 175-184.	1.0	96
39	DehazeNet: An End-to-End System for Single Image Haze Removal. IEEE Transactions on Image Processing, 2016, 25, 5187-5198.	6.0	1,970
40	Deep Specialized Network for Illuminant Estimation. Lecture Notes in Computer Science, 2016, , 371-387.	1.0	71
41	Let there be color!. ACM Transactions on Graphics, 2016, 35, 1-11.	4.9	575
42	Deep Joint Image Filtering. Lecture Notes in Computer Science, 2016, , 154-169.	1.0	124
43	Image super-resolution with multi-channel convolutional neural networks. , 2016, , .		5
44	Single Image Super Resolution Through Multi Extreme Learning Machine Regressor Fusion. Communications in Computer and Information Science, 2016, , 133-146.	0.4	0
45	Single Image Super-Resolution via Adaptive High-Dimensional Non-Local Total Variation and Adaptive Geometric Feature. IEEE Transactions on Image Processing, 2016, 26, 1-1.	6.0	34
46	Convolutional Neural Network for Reconstruction of 7T-like Images from 3T MRI Using Appearance and Anatomical Features. Lecture Notes in Computer Science, 2016, , 39-47.	1.0	74
47	Resolution enhancement of tri-stereo remote sensing images by super resolution methods. , 2016, , .		0
48	Multi-input Cardiac Image Super-Resolution Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 246-254.	1.0	119
49	Systematic infrared image quality improvement using deep learning based techniques. Proceedings of SPIE, 2016, , .	0.8	2
50	Super Resolution Reconstruction of Brain MR Image Based on Convolution Sparse Network. , 2016, , .		1
51	Face hallucination by deep traversal network. , 2016, , .		1
52	Low-Resolution Face Recognition of Multi-Scale Blocking CS-LBP and Weighted PCA. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1656005.	0.7	11
53	Super-Resolution of Dynamic Scenes Using Sampling Rate Diversity. IEEE Transactions on Image Processing, 2016, 25, 3459-3474.	6.0	0
54	Compressive Superresolution Imaging Based on Local and Nonlocal Regularizations. IEEE Photonics Journal, 2016, 8, 1-12.	1.0	6

#	ARTICLE	IF	CITATIONS
55	Super-Interpolation With Edge-Orientation-Based Mapping Kernels for Low Complex Upscaling. IEEE Transactions on Image Processing, 2016, 25, 469-483.	6.0	34
56	Single Image Super-Resolution Using Local Geometric Duality and Non-Local Similarity. IEEE Transactions on Image Processing, 2016, 25, 2168-2183.	6.0	50
57	Consistent Coding Scheme for Single-Image Super-Resolution Via Independent Dictionaries. IEEE Transactions on Multimedia, 2016, 18, 313-325.	5.2	44
58	Image restoration using structured sparse representation with a novel parametric data-adaptive transformation matrix. Signal Processing: Image Communication, 2017, 52, 151-172.	1.8	6
59	Single Image Super-Resolution Using Global Regression Based on Multiple Local Linear Mappings. IEEE Transactions on Image Processing, 2017, 26, 1300-1314.	6.0	41
60	A fast single-image super-resolution via directional edge-guided regularized extreme learning regression. Signal, Image and Video Processing, 2017, 11, 961-968.	1.7	7
61	Single Image Super-Resolution with a Parameter Economic Residual-Like Convolutional Neural Network. Lecture Notes in Computer Science, 2017, , 353-364.	1.0	10
62	Latent topic-based super-resolution for remote sensing. Remote Sensing Letters, 2017, 8, 498-507.	0.6	7
63	Video Superresolution via Motion Compensation and Deep Residual Learning. IEEE Transactions on Computational Imaging, 2017, 3, 749-762.	2.6	71
64	Double sparsity for multi-frame super resolution. Neurocomputing, 2017, 240, 115-126.	3.5	16
65	Hyperspectral Image Superresolution by Transfer Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1963-1974.	2.3	183
66	Content based image retrieval with sparse representations and local feature descriptors : A comparative study. Pattern Recognition, 2017, 68, 1-13.	5.1	57
67	Nuclear norm regularized coding with local position-patch and nonlocal similarity for face hallucination. , 2017, 64, 107-120.		3
68	Super-resolution convolutional neural network for the improvement of the image quality of magnified images in chest radiographs. Proceedings of SPIE, 2017, , .	0.8	14
69	Image quality transfer and applications in diffusion MRI. NeuroImage, 2017, 152, 283-298.	2.1	91
70	Low-level structure feature extraction for image processing via stacked sparse denoising autoencoder. Neurocomputing, 2017, 243, 12-20.	3.5	29
71	Single-image super-resolution using orthogonal rotation invariant moments. Computers and Electrical Engineering, 2017, 62, 266-280.	3.0	5
72	Ensemble based deep networks for image super-resolution. Pattern Recognition, 2017, 68, 191-198.	5.1	53

#	ARTICLE	IF	CITATIONS
73	A New Single Image Super-Resolution Method Based on the Infinite Mixture Model. IEEE Access, 2017, 5, 2228-2240.	2.6	8
74	Single Image Super-Resolution Reconstruction Based on Edge-Preserving with External and Internal Gradient Prior Knowledge. Lecture Notes in Computer Science, 2017, , 191-205.	1.0	3
75	Learning a Mixture of Deep Networks for Single Image Super-Resolution. Lecture Notes in Computer Science, 2017, , 145-156.	1.0	12
76	SK-SVR: Sigmoid kernel support vector regression based in-scale single image super-resolution. Pattern Recognition Letters, 2017, 94, 144-153.	2.6	17
77	Hybrid sparse-representation-based approach to image super-resolution reconstruction. Journal of Electronic Imaging, 2017, 26, 023008.	0.5	8
78	Clearing the Skies: A Deep Network Architecture for Single-Image Rain Removal. IEEE Transactions on Image Processing, 2017, 26, 2944-2956.	6.0	609
79	Super-Resolving Multiresolution Images With Band-Independent Geometry of Multispectral Pixels. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4610-4617.	2.7	102
80	Low-resolution face recognition with single sample per person. Signal Processing, 2017, 141, 144-157.	2.1	30
82	Reducible dictionaries for single image super-resolution based on patch matching and mean shifting. Journal of Electronic Imaging, 2017, 26, 023024.	0.5	5
83	Image super-resolution via weighted random forest. , 2017, , .		14
84	Robust coupled dictionary learning with $\hat{a}$ , " 1 -norm coefficients transition constraint for noisy image super-resolution. Signal Processing, 2017, 140, 177-189.	2.1	3
85	Iterative projection reconstruction for fast and efficient image upsampling. Neurocomputing, 2017, 226, 200-211.	3.5	20
86	Deep Convolutional Neural Network for Inverse Problems in Imaging. IEEE Transactions on Image Processing, 2017, 26, 4509-4522.	6.0	1,540
87	Multi-layer strategy and reconstruction model with low rank and local rank regularizations for single image super-resolution. Signal Processing: Image Communication, 2017, 57, 197-210.	1.8	4
88	Single image super resolution based on sparse domain selection. Neurocomputing, 2017, 269, 180-187.	3.5	5
89	Derivative Kernels: Numerics and Applications. IEEE Transactions on Image Processing, 2017, 26, 4596-4611.	6.0	24
90	Writer Identification in Noisy Handwritten Documents. , 2017, , .		8
91	Hyperspectral image super-resolution using deep convolutional neural network. Neurocomputing, 2017, 266, 29-41.	3.5	130

#	ARTICLE	IF	CITATIONS
92	Fusion of transfer learning features and its application in image classification. , 2017, , .		21
93	Face Hallucination Using Linear Models of Coupled Sparse Support. IEEE Transactions on Image Processing, 2017, 26, 4562-4577.	6.0	45
94	Super-Resolution for Remote Sensing Images via Local-Global Combined Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1243-1247.	1.4	205
95	CNN-based pansharpening of multi-resolution remote-sensing images. , 2017, , .		17
96	AMP-Inspired Deep Networks for Sparse Linear Inverse Problems. IEEE Transactions on Signal Processing, 2017, 65, 4293-4308.	3.2	281
97	Low-Dose CT With a Residual Encoder-Decoder Convolutional Neural Network. IEEE Transactions on Medical Imaging, 2017, 36, 2524-2535.	5.4	1,089
98	Satellite image resolution enhancement using discrete wavelet transform and new edge-directed interpolation. Journal of Electronic Imaging, 2017, 26, 023014.	0.5	10
99	CRF-based depth refinement with hybrid depth information. Electronics Letters, 2017, 53, 393-395.	0.5	1
100	Video Analytics. Face and Facial Expression Recognition and Audience Measurement. Lecture Notes in Computer Science, 2017, , .	1.0	1
101	Single Image Super-Resolution via Adaptive Transform-Based Nonlocal Self-Similarity Modeling and Learning-Based Gradient Regularization. IEEE Transactions on Multimedia, 2017, 19, 1702-1717.	5.2	44
102	Deep Learning Face Attributes for Detection and Alignment. Advances in Computer Vision and Pattern Recognition, 2017, , 181-214.	0.9	1
103	Illumination normalisation using convolutional neural network with application to face recognition. Electronics Letters, 2017, 53, 399-401.	0.5	25
104	Repeatable Folding Task by Humanoid Robot Worker Using Deep Learning. IEEE Robotics and Automation Letters, 2017, 2, 397-403.	3.3	153
105	A survey of deep neural network architectures and their applications. Neurocomputing, 2017, 234, 11-26.	3.5	2,242
106	Pairwise Operator Learning for Patch-Based Single-Image Super-Resolution. IEEE Transactions on Image Processing, 2017, 26, 994-1003.	6.0	26
107	Multi-focus image fusion with a deep convolutional neural network. Information Fusion, 2017, 36, 191-207.	11.7	854
108	Eyes on the Target: Super-Resolution and License-Plate Recognition in Low-Quality Surveillance Videos. IEEE Access, 2017, 5, 20020-20035.	2.6	47
109	Deep networks for compressed image sensing. , 2017, , .		100

#	ARTICLE	IF	CITATIONS
110	Development of fine-grained pill identification algorithm using deep convolutional network. Journal of Biomedical Informatics, 2017, 74, 130-136.	2.5	26
111	Detecting adversarial example attacks to deep neural networks. , 2017, , .		22
112	Deep learning for subsurface penetrating super-resolution imaging. , 2017, , .		3
113	Boosting the Accuracy of Multispectral Image Pansharpening by Learning a Deep Residual Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1795-1799.	1.4	367
114	Exploiting Reflectional and Rotational Invariance in Single Image Superresolution. , 2017, , .		4
115	Image Restoration: From Sparse and Low-Rank Priors to Deep Priors [Lecture Notes]. IEEE Signal Processing Magazine, 2017, 34, 172-179.	4.6	92
116	Medical Image Synthesis with Context-Aware Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, 10435, 417-425.	1.0	321
117	Image Super Resolution Using Generative Adversarial Networks and Local Saliency Maps for Retinal Image Analysis. Lecture Notes in Computer Science, 2017, , 382-390.	1.0	41
118	Point target detection utilizing super-resolution strategy for infrared scanning oversampling system. Infrared Physics and Technology, 2017, 86, 165-175.	1.3	0
119	NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results. , 2017, , .		645
120	NTIRE 2017 Challenge on Single Image Super-Resolution: Dataset and Study. , 2017, , .		1,883
121	Deep Edge Guided Recurrent Residual Learning for Image Super-Resolution. IEEE Transactions on Image Processing, 2017, 26, 5895-5907.	6.0	157
122	Image Super Resolution Based on Fusing Multiple Convolution Neural Networks. , 2017, , .		54
123	Improving Facial Landmark Detection via a Super-Resolution Inception Network. Lecture Notes in Computer Science, 2017, , 239-251.	1.0	3
124	A Microfluidic Cytometer for Complete Blood Count With a 3.2-Megapixel, 1.1- $\mu$ m-Pitch Super-Resolution Image Sensor in 65-nm BSI CMOS. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 794-803.	2.7	21
125	Deep convolutional networks super-resolution method for reconstructing high frequency information of the single image. , 2017, , .		2
126	Reconstructing Interlaced High-Dynamic-Range Video Using Joint Learning. IEEE Transactions on Image Processing, 2017, 26, 5353-5366.	6.0	22
127	Single Image Super-Resolution Based on Deep Learning Features and Dictionary Model. IEEE Access, 2017, 5, 17126-17135.	2.6	26



#	ARTICLE	IF	CITATIONS
128	Depth image super-resolution via semi self-taught learning framework. Proceedings of SPIE, 2017, , .	0.8	0
129	Can fully convolutional networks perform well for general image restoration problems?. , 2017, , .		15
130	Multi-focus image fusion and super-resolution with convolutional neural network. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750037.	0.9	33
131	FompNet: Compressive sensing reconstruction with deep learning over wireless fading channels. , 2017, , .		9
132	Long-Short Term Memory Network for RNA Structure Profiling Super-Resolution. Lecture Notes in Computer Science, 2017, , 255-266.	1.0	2
133	Deep Laplacian Pyramid Networks for Fast and Accurate Super-Resolution. , 2017, , .		1,643
134	Enhancement of digital radiography image quality using a convolutional neural network. Journal of X-Ray Science and Technology, 2017, 25, 857-868.	0.7	10
135	Sharp and Real Image Super-Resolution Using Generative Adversarial Network. Lecture Notes in Computer Science, 2017, , 217-226.	1.0	20
136	Multi-Focus Image Fusion via Clustering PCA Based Joint Dictionary Learning. IEEE Access, 2017, 5, 16985-16997.	2.6	29
137	Exploring deep learning image super-resolution for iris recognition. , 2017, , .		18
138	Brain MRI super-resolution using deep 3D convolutional networks. , 2017, , .		140
139	Robust Face Super-Resolution via Locality-Constrained Low-Rank Representation. IEEE Access, 2017, 5, 13103-13117.	2.6	46
140	Image Aesthetic Assessment: An experimental survey. IEEE Signal Processing Magazine, 2017, 34, 80-106.	4.6	195
141	Deep auto-context convolutional neural networks for standard-dose PET image estimation from low-dose PET/MRI. Neurocomputing, 2017, 267, 406-416.	3.5	205
142	Filtered Mapping-Based Method for Compressed Web Image Super-Resolution. IEEE Access, 2017, 5, 12682-12695.	2.6	3
143	A joint learning based Face Super Resolution approach via contextual topological structure. , 2017, , .		1
144	Single Infrared Image Stripe Noise Removal Using Deep Convolutional Networks. IEEE Photonics Journal, 2017, 9, 1-13.	1.0	62
145	An Area-Based Prior Value Method for Detection of Micro Contamination in Hard Disk Drives. IEEE Access, 2017, 5, 10017-10023.	2.6	1

#	ARTICLE	IF	CITATIONS
146	Wavelet-based single image super-resolution with an overall enhancement procedure. , 2017, , .		2
147	Volume upscaling with convolutional neural networks. , 2017, , .		22
148	Effective training of convolutional neural networks for face-based gender and age prediction. Pattern Recognition, 2017, 72, 15-26.	5.1	104
149	Deep residual learning for remote sensed imagery pansharpening. , 2017, , .		23
150	A residual convolutional neural network for pan-shaprening. , 2017, , .		39
151	Training Convolutional Neural Networks with Limited Training Data for Ear Recognition in the Wild. , 2017, , .		52
152	Content-Adaptive Sketch Portrait Generation by Decompositional Representation Learning. IEEE Transactions on Image Processing, 2017, 26, 328-339.	6.0	40
153	Detail enhancement of image super-resolution based on detail synthesis. Signal Processing: Image Communication, 2017, 50, 21-33.	1.8	13
154	RAISR: Rapid and Accurate Image Super Resolution. IEEE Transactions on Computational Imaging, 2017, 3, 110-125.	2.6	197
155	A Parallel Proximal Algorithm for Anisotropic Total Variation Minimization. IEEE Transactions on Image Processing, 2017, 26, 539-548.	6.0	43
156	Hyperspectral image reconstruction by deep convolutional neural network for classification. Pattern Recognition, 2017, 63, 371-383.	5.1	217
157	Non-Additive Imprecise Image Super-Resolution in a Semi-Blind Context. IEEE Transactions on Image Processing, 2017, 26, 1379-1392.	6.0	8
158	Cascade of multi-scale convolutional neural networks for bone suppression of chest radiographs in gradient domain. Medical Image Analysis, 2017, 35, 421-433.	7.0	96
159	Text image super resolution using within-scale repetition of characters and strokes. Multimedia Tools and Applications, 2017, 76, 16415-16438.	2.6	4
160	Brain atlas fusion from high-thickness diagnostic magnetic resonance images by learning-based super-resolution. Pattern Recognition, 2017, 63, 531-541.	5.1	18
161	Text-image super-resolution through anchored neighborhood regression with multiple class-specific dictionaries. Signal, Image and Video Processing, 2017, 11, 275-282.	1.7	2
162	Rapid Exact Signal Scanning With Deep Convolutional Neural Networks. IEEE Transactions on Signal Processing, 2017, 65, 1235-1250.	3.2	4
163	Beyond Human-level License Plate Super-resolution with Progressive Vehicle Search and Domain Priors GAN. , 2017, , .		36

#	ARTICLE	IF	CITATIONS
164	Color-Guided Depth Map Super Resolution Using Convolutional Neural Network. IEEE Access, 2017, 5, 26666-26672.	2.6	29
165	Reversible data hiding using maximum and minimum filters for image interpolation. , 2017, , .		1
166	Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network. , 2017, , .		5,963
167	Convolutional Neural Network Approach for Mapping Arctic Vegetation Using Multi-Sensor Remote Sensing Fusion. , 2017, , .		6
168	Exploring Texture Transfer Learning via Convolutional Neural Networks for Iris Super Resolution. , 2017, , .		11
169	Convolutional Neural Networks for Inverse Problems in Imaging: A Review. IEEE Signal Processing Magazine, 2017, 34, 85-95.	4.6	496
170	Super-resolution land cover mapping based on deep learning and level set method. , 2017, , .		3
171	Deep Residual Convolutional Neural Network for Hyperspectral Image Super-Resolution. Lecture Notes in Computer Science, 2017, , 370-380.	1.0	20
172	Deep Networks for Single Image Super-Resolution with Multi-context Fusion. Lecture Notes in Computer Science, 2017, , 397-407.	1.0	3
173	Robust Video Super-Resolution with Learned Temporal Dynamics. , 2017, , .		155
174	Deep speckle noise filtering. , 2017, , .		6
175	Cloud-Based Positioning Method with Visualized Signal Images. , 2017, , .		2
176	HSCNN: CNN-Based Hyperspectral Image Recovery from Spectrally Undersampled Projections. , 2017, , .		119
177	On-demand Learning for Deep Image Restoration. , 2017, , .		48
178	Removing Rain from Single Images via a Deep Detail Network. , 2017, , .		642
179	Projective Approximation Based Gradient Descent Modification. IFAC-PapersOnLine, 2017, 50, 3899-3904.	0.5	8
180	Single Image Super-Resolution Using Multiple Extreme Learning Machine Regressors. , 2017, , .		0
181	Brightness-Based Convolutional Neural Network for Thermal Image Enhancement. IEEE Access, 2017, 5, 26867-26879.	2.6	43

#	ARTICLE	IF	CITATIONS
182	Stacked Features Based CNN for Rotation Invariant Digit Classification. Lecture Notes in Computer Science, 2017, , 527-533.	1.0	4
183	A Deep-Learning-Based Forecasting Ensemble to Predict Missing Data for Remote Sensing Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5228-5236.	2.3	49
184	Video Satellite Imagery Super Resolution via Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2398-2402.	1.4	89
185	Single Image Super-resolution Based on Residual Learning. , 2017, , .		0
186	Efficient CTU-based intra frame coding for HEVC based on deep learning. , 2017, , .		15
187	Context-patch based face hallucination via thresholding locality-constrained representation and reproducing learning. , 2017, , .		13
188	BYNET-SR: Image super resolution with a bypass connection network. , 2017, , .		2
189	Learning to generate images with perceptual similarity metrics. , 2017, , .		60
190	Hyperspectral image super-resolution via convolutional neural network. , 2017, , .		20
191	Locally-adapted convolution-based super-resolution of irregularly-sampled ocean remote sensing data. , 2017, , .		2
192	Sharpness-preservation video upscaling. , 2017, , .		2
193	A Deep Convolutional Neural Network with Selection Units for Super-Resolution. , 2017, , .		80
194	SRHRF+: Self-Example Enhanced Single Image Super-Resolution Using Hierarchical Random Forests. , 2017, , .		21
195	Fast and Accurate Image Super-Resolution Using a Combined Loss. , 2017, , .		8
196	Multi-scale-and-depth convolutional neural network for remote sensed imagery pan-sharpening. , 2017, , .		3
197	Image super-resolution via deep dilated convolutional networks. , 2017, , .		7
198	Deep network for image super-resolution with a dictionary learning layer. , 2017, , .		2
199	Single image super-resolution with dilated convolution based multi-scale information learning inception module. , 2017, , .		49

#	ARTICLE	IF	CITATIONS
200	Light field super-resolution using internal and external similarities. , 2017, , .		5
201	Variation learning guided convolutional network for image interpolation. , 2017, , .		10
202	Ptychnet: CNN based fourier ptychography. , 2017, , .		30
203	Shallow and deep convolutional networks for image super-resolution. , 2017, , .		1
204	Convolutional neural network-based depth image artifact removal. , 2017, , .		11
205	Joint coarse-and-fine reasoning for deep optical flow. , 2017, , .		7
206	Video Frame Interpolation via Adaptive Convolution. , 2017, , .		137
207	Hallucinating Very Low-Resolution Unaligned and Noisy Face Images by Transformative Discriminative Autoencoders. , 2017, , .		100
208	Real-Time Neural Style Transfer for Videos. , 2017, , .		126
209	Super-resolution for 2K/8K television using wavelet-based image registration. , 2017, , .		4
210	Deep learning sparse ternary projections for compressed sensing of images. , 2017, , .		19
211	Video super-resolution using motion compensation and residual bidirectional recurrent convolutional network. , 2017, , .		5
212	Greedy deep transform learning. , 2017, , .		14
213	DLML: Deep linear mappings learning for face super-resolution with nonlocal-patch. , 2017, , .		11
214	Single face image super-resolution using local training networks. , 2017, , .		0
215	Supplementary Meta-Learning: Towards a Dynamic Model for Deep Neural Networks. , 2017, , .		3
216	Image Super-Resolution Using Dense Skip Connections. , 2017, , .		815
217	Real-Time Video Super-Resolution with Spatio-Temporal Networks and Motion Compensation. , 2017, , .		398

#	ARTICLE	IF	CITATIONS
218	Texture-centralized deep convolutional neural network for single image super resolution. , 2017, , .		3
219	Merging recovery feature network to faster RCNN for low-resolution images detection. , 2017, , .		1
220	Fast Image Processing with Fully-Convolutional Networks. , 2017, , .		214
221	Makeup-Go: Blind Reversion of Portrait Edit. , 2017, , .		15
222	Image Super-Resolution via Deep Recursive Residual Network. , 2017, , .		1,400
223	Learning Deep CNN Denoiser Prior for Image Restoration. , 2017, , .		1,161
224	MemNet: A Persistent Memory Network for Image Restoration. , 2017, , .		1,110
225	Intra prediction using fully connected network for video coding. , 2017, , .		26
226	Motion blur removal via coupled autoencoder. , 2017, , .		5
227	Learning Discriminative Aggregation Network for Video-Based Face Recognition. , 2017, , .		42
228	Single-shot high dynamic range imaging via deep convolutional neural network. , 2017, , .		17
229	Image super-resolution using siamese-based neural network. , 2017, , .		0
230	RDCN-SR: Integrating regression model with deep convolutional networks for image super-resolution. , 2017, , .		1
231	Single depth image super-resolution with multiple residual dictionary learning and refinement. , 2017, , .		8
232	Face hallucination using deep collaborative representation for local and non-local patches. , 2017, , .		5
233	ZipNet-GAN. , 2017, , .		45
234	A parallel computation algorithm for super-resolution methods using convolutional neural networks. , 2017, , .		3
235	Single image super-resolution via multi-scale fusion convolutional neural network. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
236	Combining Exemplar-Based Approach and learning-Based Approach for Light Field Super-Resolution Using a Hybrid Imaging System. , 2017, , .		20
237	Camera-specific image quality enhancement using a convolutional neural network. , 2017, , .		4
238	ooc_cuDNN: Accommodating convolutional neural networks over GPU memory capacity. , 2017, , .		7
239	Single image super-resolution using back-propagation neural networks. , 2017, , .		2
240	Large receptive field convolutional neural network for image super-resolution. , 2017, , .		7
241	Super-Resolution Deblurring Algorithm for Generative Adversarial Networks. , 2017, , .		1
242	GAN-D: Generative adversarial networks for image deconvolution. , 2017, , .		2
243	A novel convolutional neural network architecture for image super-resolution based on channels combination. , 2017, , .		2
244	Image quality assessment using deep convolutional networks. AIP Advances, 2017, 7, .	0.6	16
245	Face hallucination using region-based deep convolutional networks. , 2017, , .		8
246	Residual encoder-decoder network introduced for multisource SAR image despeckling. , 2017, , .		10
247	UHD Video Super-Resolution Using Low-Rank and Sparse Decomposition. , 2017, , .		2
248	CNN-based pre-processing and multi-frame-based view transformation for fisheye camera-based AVM system. , 2017, , .		1
249	Learning a convolutional neural network for fractional interpolation in HEVC inter coding. , 2017, , .		23
250	Blur-Invariant Deep Learning for Blind-Deblurring. , 2017, , .		85
251	Deep Learning Based Hand Detection in Cluttered Environment Using Skin Segmentation. , 2017, , .		39
252	Deep hybrid residual learning with statistic priors for single image super-resolution. , 2017, , .		2
253	High-Resolution Image Inpainting through Multiple Deep Networks. , 2017, , .		12

#	ARTICLE	IF	CITATIONS
254	Anchored Regression Networks Applied to Age Estimation and Super Resolution. , 2017, , .		41
255	Wavelet-SRNet: A Wavelet-Based CNN for Multi-scale Face Super Resolution. , 2017, , .		266
256	PanNet: A Deep Network Architecture for Pan-Sharpning. , 2017, , .		403
257	Learning Proximal Operators: Using Denoising Networks for Regularizing Inverse Imaging Problems. , 2017, , .		194
258	Video Frame Interpolation via Adaptive Separable Convolution. , 2017, , .		454
259	A deep convolutional network for medical image super-resolution. , 2017, , .		21
260	Super-resolution for sequence series data using long-short term memory network. , 2017, , .		0
261	Simultaneous Super-Resolution and Cross-Modality Synthesis of 3D Medical Images Using Weakly-Supervised Joint Convolutional Sparse Coding. , 2017, , .		126
262	Integrating regression model with Gaussian mixture model for image super-resolution. , 2017, , .		0
263	Fast PixelCNN: Based on network acceleration cache and partial generation network. , 2017, , .		2
264	Stereo Super-Resolution via a Deep Convolutional Network. , 2017, , .		0
265	Convolutional neural network-based infrared image super resolution under low light environment. , 2017, , .		9
266	Multi-Channel Convolutional Neural Networks for Image Super-Resolution. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 572-580.	0.2	7
267	A Novel Method for Image Compression Using Spectrum. , 2017, , .		4
269	Perception Science in the Age of Deep Neural Networks. Frontiers in Psychology, 2017, 8, 142.	1.1	59
270	Continuous digital zooming using local self-similarity-based super-resolution for an asymmetric dual camera system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 991.	0.8	4
271	Deep learning microscopy. Optica, 2017, 4, 1437.	4.8	475
272	Deblurring adaptive optics retinal images using deep convolutional neural networks. Biomedical Optics Express, 2017, 8, 5675.	1.5	28



#	ARTICLE	IF	CITATIONS
273	Inception learning super-resolution. Applied Optics, 2017, 56, 6043.	0.9	14
274	aLow-dose CT via convolutional neural network. Biomedical Optics Express, 2017, 8, 679.	1.5	549
275	A Novel Approach to Artistic Textual Visualization via GAN. , 2017, , .		2
276	Towards Micro-video Understanding by Joint Sequential-Sparse Modeling. , 2017, , .		45
277	Image Interpolation via Scanning Line Algorithm and Discontinuous B-Spline. Mathematical and Computational Applications, 2017, 22, 34.	0.7	2
278	Spatiotemporal Fusion of Remote Sensing Images with Structural Sparsity and Semi-Coupled Dictionary Learning. Remote Sensing, 2017, 9, 21.	1.8	36
279	Hyperspectral Image Spatial Super-Resolution via 3D Full Convolutional Neural Network. Remote Sensing, 2017, 9, 1139.	1.8	192
280	Analysis of Coastline Extraction from Landsat-8 OLI Imagery. Water (Switzerland), 2017, 9, 816.	1.2	35
281	Sparsity Invariant CNNs. , 2017, , .		471
282	Single image super resolution using fuzzy deep convolutional networks. , 2017, , .		7
283	Deep Learning- and Transfer Learning-Based Super Resolution Reconstruction from Single Medical Image. Journal of Healthcare Engineering, 2017, 2017, 1-20.	1.1	32
284	Single image super-resolution reconstruction via combination mapping with sparse coding. , 2017, , .		2
285	On noise reduction for handwritten writer identification. , 2017, , .		0
286	Manifold inconsistency constrained sparse coding for image super-resolution reconstruction. , 2017, , .		0
287	Evaluation of super-resolution on bird detection performance based on deep convolutional networks. , 2017, , .		4
288	Multiple-image super resolution using both reconstruction optimization and deep neural network. , 2017, , .		3
289	Real-time deep image super-resolution via global context aggregation and local queue jumping. , 2017, , .		4
290	Adaptive anchor-point selection for single image super-resolution. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
291	Fast image super-resolution via Randomized Multi-split Forests. , 2017, , .		10
292	Convolutional Residual Network for Grasp Localization. , 2017, , .		3
293	Super Resolution of Light Field Images Using Linear Subspace Projection of Patch-Volumes. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1058-1071.	7.3	73
294	A joint deep-network-based image restoration algorithm for multi-degradations. , 2017, , .		1
295	Single Image Super-resolution Using Spatial Transformer Networks. , 2017, , .		0
296	Effect of Super Resolution on High Dimensional Features for Unsupervised Face Recognition in the Wild. , 2017, , .		11
297	A Taxonomy of Example-Based Super Resolution. , 2017, , 15-29.		6
299	Monitor Pupils' Attention by Image Super-Resolution and Anomaly Detection. , 2017, , .		5
301	Stereoscopic Image Super-Resolution Method with View Incorporation and Convolutional Neural Networks. Applied Sciences (Switzerland), 2017, 7, 526.	1.3	3
302	A new approach for upscaling document images for improving their quality. , 2017, , .		6
303	LEARN: Learned Expertsâ€™ Assessment-Based Reconstruction Network for Sparse-Data CT. IEEE Transactions on Medical Imaging, 2018, 37, 1333-1347.	5.4	269
304	Efficient document-image super-resolution using convolutional neural network. Sadhana - Academy Proceedings in Engineering Sciences, 2018, 43, 1.	0.8	5
305	Enhancing Hi-C data resolution with deep convolutional neural network HiCPlus. Nature Communications, 2018, 9, 750.	5.8	132
306	Imagining the Unimaginable Faces by Deconvolutional Networks. IEEE Transactions on Image Processing, 2018, 27, 2747-2761.	6.0	25
307	Real-Time High-Fidelity Compression for Extremely High Frame Rate Video Cameras. IEEE Transactions on Computational Imaging, 2018, 4, 172-180.	2.6	3
308	CISRDCNN: Super-resolution of compressed images using deep convolutional neural networks. Neurocomputing, 2018, 285, 204-219.	3.5	32
309	Phase recovery and holographic image reconstruction using deep learning in neural networks. Light: Science and Applications, 2018, 7, 17141-17141.	7.7	662
310	Development of small particle speciation for nuclear forensics by soft X-ray scanning transmission spectromicroscopy. Analyst, The, 2018, 143, 1349-1357.	1.7	6

#	ARTICLE	IF	CITATIONS
311	High Dynamic Range and Super-Resolution Imaging From a Single Image. IEEE Access, 2018, 6, 10966-10978.	2.6	21
312	Single Infrared Image Optical Noise Removal Using a Deep Convolutional Neural Network. IEEE Photonics Journal, 2018, 10, 1-15.	1.0	27
313	Deep Hyperspectral Image Sharpening. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5345-5355.	7.2	266
314	Dual Autoencoder Network for Retinex-Based Low-Light Image Enhancement. IEEE Access, 2018, 6, 22084-22093.	2.6	98
315	Medical Image Synthesis with Deep Convolutional Adversarial Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2720-2730.	2.5	392
316	Recurrent Convolutional Shape Regression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2569-2582.	9.7	12
317	Example-Based Image Synthesis via Randomized Patch-Matching. IEEE Transactions on Image Processing, 2018, 27, 220-235.	6.0	3
318	Robust Single-Image Super-Resolution Based on Adaptive Edge-Preserving Smoothing Regularization. IEEE Transactions on Image Processing, 2018, 27, 2650-2663.	6.0	53
319	Remote Sensing Image Fusion Based on Two-Stream Fusion Network. Lecture Notes in Computer Science, 2018, , 428-439.	1.0	11
320	Single satellite imagery simultaneous super-resolution and colorization using multi-task deep neural networks. Journal of Visual Communication and Image Representation, 2018, 53, 20-30.	1.7	25
321	Single image super-resolution using collaborative representation and non-local self-similarity. Signal Processing, 2018, 149, 49-61.	2.1	31
322	Image Super-Resolution Based on Dual Path Network. , 2018, , .		1
323	Single-shot $T_2^*$ mapping using overlapping echo detachment planar imaging and a deep convolutional neural network. Magnetic Resonance in Medicine, 2018, 80, 2202-2214.	1.9	61
324	A novel infrared video surveillance system using deep learning based techniques. Multimedia Tools and Applications, 2018, 77, 26657-26676.	2.6	34
325	Deep EEG super-resolution: Upsampling EEG spatial resolution with Generative Adversarial Networks. , 2018, , .		43
326	Super-resolution via supervised classification and independent dictionary training. Multimedia Tools and Applications, 2018, 77, 27709-27732.	2.6	1
327	Demodulation of faded wireless signals using deep convolutional neural networks. , 2018, , .		25
328	cross-domain convolutional neural networks for reconstructing undersampled magnetic resonance images. Magnetic Resonance in Medicine, 2018, 80, 2188-2201.	1.9	288

#	ARTICLE	IF	CITATIONS
329	Deep recursive super resolution network with Laplacian Pyramid for better agricultural pest surveillance and detection. Computers and Electronics in Agriculture, 2018, 150, 26-32.	3.7	42
330	Global motion based video super-resolution reconstruction using discrete wavelet transform. Multimedia Tools and Applications, 2018, 77, 27641-27660.	2.6	11
331	Nonparametric blind SAR image super resolution based on combination of the compressive sensing and sparse priors. Journal of Visual Communication and Image Representation, 2018, 55, 853-865.	1.7	13
332	Super-resolution for asymmetric resolution of FIB-SEM 3D imaging using AI with deep learning. Scientific Reports, 2018, 8, 5877.	1.6	58
333	Training-Free, Single-Image Super-Resolution Using a Dynamic Convolutional Network. IEEE Signal Processing Letters, 2018, 25, 85-89.	2.1	13
334	Artificial Neural Network Enhanced Bayesian PET Image Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1297-1309.	5.4	46
335	Noise robust single image super-resolution using a multiscale image pyramid. Signal Processing, 2018, 148, 157-171.	2.1	13
336	Super-Resolution for GaoFen-4 Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 28-32.	1.4	32
337	Single Image Super-Resolution Based on Wiener Filter in Similarity Domain. IEEE Transactions on Image Processing, 2018, 27, 1376-1389.	6.0	59
338	Hyperspectral Image Classification With Markov Random Fields and a Convolutional Neural Network. IEEE Transactions on Image Processing, 2018, 27, 2354-2367.	6.0	252
339	A Deep Cascade of Convolutional Neural Networks for Dynamic MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 491-503.	5.4	816
340	Mapping Forests: A Comprehensive Approach for Nonlinear Mapping Problems. Journal of Mathematical Imaging and Vision, 2018, 60, 232-245.	0.8	3
341	Micro-Lens-Based Matching for Scene Recovery in Lenslet Cameras. IEEE Transactions on Image Processing, 2018, 27, 1060-1075.	6.0	23
342	Fast Image Super-Resolution via Local Adaptive Gradient Field Sharpening Transform. IEEE Transactions on Image Processing, 2018, 27, 1966-1980.	6.0	31
343	An Iterative Framework of Cascaded Deblocking and Superresolution for Compressed Images. IEEE Transactions on Multimedia, 2018, 20, 1305-1320.	5.2	28
344	Co-occurrent Structural Edge Detection for Color-Guided Depth Map Super-Resolution. Lecture Notes in Computer Science, 2018, , 93-105.	1.0	2
345	An Iterative BP-CNN Architecture for Channel Decoding. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 144-159.	7.3	205
346	Matching Software-Generated Sketches to Face Photographs With a Very Deep CNN, Morphed Faces, and Transfer Learning. IEEE Transactions on Information Forensics and Security, 2018, 13, 1421-1431.	4.5	56

#	ARTICLE	IF	CITATIONS
347	Image super-resolution via a novel cascaded convolutional neural network framework. Signal Processing: Image Communication, 2018, 63, 9-18.	1.8	8
348	Infrared image super-resolution using auxiliary convolutional neural network and visible image under low-light conditions. Journal of Visual Communication and Image Representation, 2018, 51, 191-200.	1.7	18
349	DAGAN: Deep De-Aliasing Generative Adversarial Networks for Fast Compressed Sensing MRI Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 1310-1321.	5.4	724
350	Spatiotemporal Satellite Image Fusion Using Deep Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 821-829.	2.3	219
351	High-frequency details enhancing DenseNet for super-resolution. Neurocomputing, 2018, 290, 34-42.	3.5	21
353	Super-resolution for biometrics: A comprehensive survey. Pattern Recognition, 2018, 78, 23-42.	5.1	95
354	Using Deep Neural Networks for Inverse Problems in Imaging: Beyond Analytical Methods. IEEE Signal Processing Magazine, 2018, 35, 20-36.	4.6	407
355	LightenNet: A Convolutional Neural Network for weakly illuminated image enhancement. Pattern Recognition Letters, 2018, 104, 15-22.	2.6	279
356	Deep learning for real-time single-pixel video. Scientific Reports, 2018, 8, 2369.	1.6	187
357	Low-dose x-ray tomography through a deep convolutional neural network. Scientific Reports, 2018, 8, 2575.	1.6	74
358	Super-resolution of retinal images using multi-kernel SVR for IoT healthcare applications. Future Generation Computer Systems, 2018, 83, 338-346.	4.9	34
359	Single-frame super resolution of remote-sensing images by convolutional neural networks. International Journal of Remote Sensing, 2018, 39, 2463-2479.	1.3	41
360	Partially supervised anchored neighborhood regression for image super-resolution through FoE features. Neurocomputing, 2018, 275, 2341-2354.	3.5	4
361	Deep-learning tomography. The Leading Edge, 2018, 37, 58-66.	0.4	374
362	CoastalDEM: A global coastal digital elevation model improved from SRTM using a neural network. Remote Sensing of Environment, 2018, 206, 231-239.	4.6	103
363	A Deep Convolutional Neural Network Architecture for Boosting Image Discrimination Accuracy of Rice Species. Food and Bioprocess Technology, 2018, 11, 765-773.	2.6	56
364	White matter hyperintensity and stroke lesion segmentation and differentiation using convolutional neural networks. NeuroImage: Clinical, 2018, 17, 918-934.	1.4	164
365	Mastering Sketching. ACM Transactions on Graphics, 2018, 37, 1-13.	4.9	77

#	ARTICLE	IF	CITATIONS
366	Local patch encoding-based method for single image super-resolution. Information Sciences, 2018, 433-434, 292-305.	4.0	14
367	Gradient boosting for single image super-resolution. Information Sciences, 2018, 454-455, 328-343.	4.0	12
368	Nonlocal Similarity Modeling and Deep CNN Gradient Prior for Super Resolution. IEEE Signal Processing Letters, 2018, 25, 916-920.	2.1	12
369	SGCRSR: Sequential gradient constrained regression for single image super-resolution. Signal Processing: Image Communication, 2018, 66, 1-18.	1.8	10
370	High-quality face image generated with conditional boundary equilibrium generative adversarial networks. Pattern Recognition Letters, 2018, 111, 72-79.	2.6	23
371	Low-Dose CT Image Denoising Using a Generative Adversarial Network With Wasserstein Distance and Perceptual Loss. IEEE Transactions on Medical Imaging, 2018, 37, 1348-1357.	5.4	983
372	Rotation Invariant Digit Recognition Using Convolutional Neural Network. Advances in Intelligent Systems and Computing, 2018, , 91-102.	0.5	5
373	Target-Adaptive CNN-Based Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5443-5457.	2.7	294
374	Enhancing the Image Quality via Transferred Deep Residual Learning of Coarse PET Sinograms. IEEE Transactions on Medical Imaging, 2018, 37, 2322-2332.	5.4	52
375	Super-resolution musculoskeletal MRI using deep learning. Magnetic Resonance in Medicine, 2018, 80, 2139-2154.	1.9	267
376	Deep embedding convolutional neural network for synthesizing CT image from T1-Weighted MR image. Medical Image Analysis, 2018, 47, 31-44.	7.0	137
377	2D-3D Fully Convolutional Neural Networks for Cardiac MR Segmentation. Lecture Notes in Computer Science, 2018, , 130-139.	1.0	45
378	A compendious study of super-resolution techniques by single image. Optik, 2018, 166, 147-160.	1.4	23
379	Learning Temporal Dynamics for Video Super-Resolution: A Deep Learning Approach. IEEE Transactions on Image Processing, 2018, 27, 3432-3445.	6.0	64
380	Towards breaking the spatial resolution barriers: An optical flow and super-resolution approach for sea ice motion estimation. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 164-175.	4.9	15
381	Aerial Image Super Resolution via Wavelet Multiscale Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 769-773.	1.4	36
382	Vanishing point detection for visual surveillance systems in railway platform environments. Computers in Industry, 2018, 98, 153-164.	5.7	10
383	Super-resolution reconstruction of MR image with a novel residual learning network algorithm. Physics in Medicine and Biology, 2018, 63, 085011.	1.6	88

#	ARTICLE	IF	CITATIONS
384	A Novel Multiconnected Convolutional Network for Super-Resolution. IEEE Signal Processing Letters, 2018, 25, 946-950.	2.1	12
386	Information-Compensated Downsampling for Image Super-Resolution. IEEE Signal Processing Letters, 2018, 25, 685-689.	2.1	12
387	Fully Connected Network-Based Intra Prediction for Image Coding. IEEE Transactions on Image Processing, 2018, 27, 3236-3247.	6.0	141
388	Single Image Super Resolution Using Joint Regularization. IEEE Signal Processing Letters, 2018, 25, 596-600.	2.1	38
389	Single image deraining using deep convolutional networks. Multimedia Tools and Applications, 2018, 77, 25905-25918.	2.6	6
390	Multi spectral image fusion by deep convolutional neural network and new spectral loss function. International Journal of Remote Sensing, 2018, 39, 3983-4002.	1.3	28
391	Image super-resolution for outdoor digital forensics. Usability and legal aspects. Computers in Industry, 2018, 98, 34-47.	5.7	3
392	Remote Sensing Image Fusion With Deep Convolutional Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1656-1669.	2.3	250
393	Event patches: Mining effective parts for event detection and understanding. Signal Processing, 2018, 149, 82-87.	2.1	3
394	Hallucinating Face Image by Regularization Models in High-Resolution Feature Space. IEEE Transactions on Image Processing, 2018, 27, 2980-2995.	6.0	46
395	A MAP-Based Approach for Hyperspectral Imagery Super-Resolution. IEEE Transactions on Image Processing, 2018, 27, 2942-2951.	6.0	53
396	New single-image super-resolution reconstruction using MRF model. Neurocomputing, 2018, 293, 108-129.	3.5	8
397	A Multiscale and Multidepth Convolutional Neural Network for Remote Sensing Imagery Pan-Sharpener. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 978-989.	2.3	374
398	Highly Accurate Facial Nerve Segmentation Refinement From CBCT/CT Imaging Using a Super-Resolution Classification Approach. IEEE Transactions on Biomedical Engineering, 2018, 65, 178-188.	2.5	21
399	Robust Face Hallucination via Locality-Constrained Bi-Layer Representation. IEEE Transactions on Cybernetics, 2018, 48, 1189-1201.	6.2	51
400	Structure Learning for Deep Neural Networks Based on Multiobjective Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2450-2463.	7.2	80
401	Video Super-Resolution via Bidirectional Recurrent Convolutional Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1015-1028.	9.7	129
402	Expanding Training Data for Facial Image Super-Resolution. IEEE Transactions on Cybernetics, 2018, 48, 716-729.	6.2	13

#	ARTICLE	IF	CITATIONS
403	Back projection: An effective postprocessing method for GAN-based face sketch synthesis. Pattern Recognition Letters, 2018, 107, 59-65.	2.6	65
404	Bidirectionally aligned sparse representation for single image super-resolution. Multimedia Tools and Applications, 2018, 77, 7883-7907.	2.6	4
405	Super Resolution by Comprehensively Exploiting Dependencies of Wavelet Coefficients. IEEE Transactions on Multimedia, 2018, 20, 298-309.	5.2	7
406	Dim infrared image enhancement based on convolutional neural network. Neurocomputing, 2018, 272, 396-404.	3.5	60
407	The bumps under the hippocampus. Human Brain Mapping, 2018, 39, 472-490.	1.9	25
408	A modified convolutional neural network for face sketch synthesis. Pattern Recognition, 2018, 76, 125-136.	5.1	31
409	Robust single image super resolution using neighbor embedding and fusion in wavelet domain. Computers and Electrical Engineering, 2018, 70, 674-689.	3.0	6
410	Clustering-Oriented Multiple Convolutional Neural Networks for Single Image Super-Resolution. Cognitive Computation, 2018, 10, 165-178.	3.6	12
411	Deep learning based image Super-resolution for nonlinear lens distortions. Neurocomputing, 2018, 275, 969-982.	3.5	12
412	Application of Super-Resolution Convolutional Neural Network for Enhancing Image Resolution in Chest CT. Journal of Digital Imaging, 2018, 31, 441-450.	1.6	132
413	Deep fully-connected networks for video compressive sensing. , 2018, 72, 9-18.		154
414	Image super-resolution using a dilated convolutional neural network. Neurocomputing, 2018, 275, 1219-1230.	3.5	71
415	Recent advances in convolutional neural networks. Pattern Recognition, 2018, 77, 354-377.	5.1	3,359
416	GPU-based real-time super-resolution system for high-quality UHD video up-conversion. Journal of Supercomputing, 2018, 74, 456-484.	2.4	3
417	Lensless digital holographic microscopy and its applications in biomedicine and environmental monitoring. Methods, 2018, 136, 4-16.	1.9	142
418	Fire smoke detection algorithm based on motion characteristic and convolutional neural networks. Multimedia Tools and Applications, 2018, 77, 15075-15092.	2.6	88
419	A joint residual network with paired ReLUs activation for image super-resolution. Neurocomputing, 2018, 273, 37-46.	3.5	25
420	Deep convolutional neural network for latent fingerprint enhancement. Signal Processing: Image Communication, 2018, 60, 52-63.	1.8	80



#	ARTICLE	IF	CITATIONS
421	Towards Robust Face Sketch Synthesis with Style Transfer Algorithms. Lecture Notes in Electrical Engineering, 2018, , 172-179.	0.3	1
422	A rear-end collision prediction scheme based on deep learning in the Internet of Vehicles. Journal of Parallel and Distributed Computing, 2018, 117, 192-204.	2.7	90
423	An Image Interpolation Method Based on Weighted Subdivision. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1854009.	0.7	2
424	A two-channel convolutional neural network for image super-resolution. Neurocomputing, 2018, 275, 267-277.	3.5	28
425	Machine Learning in Radiology: Applications Beyond Image Interpretation. Journal of the American College of Radiology, 2018, 15, 350-359.	0.9	174
426	Continuous digital zooming of asymmetric dual camera images using registration and variational image restoration. Multidimensional Systems and Signal Processing, 2018, 29, 1959-1987.	1.7	4
427	Single image super-resolution using a deep encoder-decoder symmetrical network with iterative back projection. Neurocomputing, 2018, 282, 52-59.	3.5	13
428	A rapid and accurate infrared image super-resolution method based on zoom mechanism. Infrared Physics and Technology, 2018, 88, 228-238.	1.3	7
429	Combining sparse coding with structured output regression machine for single image super-resolution. Information Sciences, 2018, 430-431, 577-598.	4.0	19
430	Deep Learning in Nuclear Medicine and Molecular Imaging: Current Perspectives and Future Directions. Nuclear Medicine and Molecular Imaging, 2018, 52, 109-118.	0.6	57
431	Deep learning for pixel-level image fusion: Recent advances and future prospects. Information Fusion, 2018, 42, 158-173.	11.7	497
432	A novel localized and second order feature coding network for image recognition. Pattern Recognition, 2018, 76, 339-348.	5.1	19
433	Single image super-resolution using coupled dictionary learning and cross domain mapping. Multimedia Tools and Applications, 2018, 77, 14979-15002.	2.6	1
434	Video super-resolution based on spatial-temporal recurrent residual networks. Computer Vision and Image Understanding, 2018, 168, 79-92.	3.0	44
435	Image super-resolution via two coupled dictionaries and sparse representation. Multimedia Tools and Applications, 2018, 77, 13487-13511.	2.6	7
436	An End-to-End Compression Framework Based on Convolutional Neural Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3007-3018.	5.6	138
437	Texture Super-Resolution in Multiview RGB-D Transmission. , 2018, , .		0
438	Feasibility Study of EEG Super-Resolution Using Deep Convolutional Networks. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
439	Fast Depth Map Super-Resolution Using Deep Neural Network. , 2018, , .		25
440	Multiple Residual Learning Network for Single Image Super-Resolution. , 2018, , .		2
441	The Study of Traffic Flow Information Completion Based on GAN Algorithm. , 2018, , .		2
442	Non-blind Deblurring: Handling Kernel Uncertainty with CNNs. , 2018, , .		37
443	Robust Dual Images Super-Resolution. , 2018, , .		0
444	Weighted Quantization and Hamming Search for Fast Image Super-Resolution. , 2018, , .		0
445	Generative Adversarial Networks with Dense Connection for Optical Coherence Tomography Images Denoising. , 2018, , .		6
446	Gesture Recognition Based on Depth Information and Convolutional Neural Network. , 2018, , .		1
447	Light Field Spatial Super-resolution via CNN Guided by A Single High-resolution RGB Image. , 2018, , .		3
448	DIGITAL STAINING OF HIGH-RESOLUTION FTIR SPECTROSCOPIC IMAGES. , 2018, , .		0
449	Depth Image Super-Resolution with Semantic and RGB Images Using CNN. , 2018, , .		0
450	Group Embedding for Face Hallucination. IEEE Access, 2018, 6, 63402-63415.	2.6	4
451	Hyperspectral Image Super-Resolution Inspired by Deep Laplacian Pyramid Network. Remote Sensing, 2018, 10, 1939.	1.8	19
452	Image Super-Resolution via Wavelet Feature Extraction and Sparse Representation. Radioengineering, 2018, 27, 602-609.	0.3	4
453	Super-Resolution Reconstruction and Its Application Based on Multilevel Main Structure and Detail Boosting. Remote Sensing, 2018, 10, 2065.	1.8	3
454	ExpandNet: A Deep Convolutional Neural Network for High Dynamic Range Expansion from Low Dynamic Range Content. Computer Graphics Forum, 2018, 37, 37-49.	1.8	167
455	Joint Back Projection and Residual Networks for Efficient Image Super-Resolution. , 2018, , .		3
456	Single Image Super-Resolution via Laplacian Information Distillation Network. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
457	3-D Inversion of Crustal Structure in Frequency of Gravity. IOP Conference Series: Earth and Environmental Science, 2018, 170, 022035.	0.2	0
458	Recursive Deep Residual Learning for Single Image Dehazing. , 2018, , .		22
459	Temporally Smooth Privacy-Protected Airborne Videos. , 2018, , .		5
460	Residual HSRCNN: Residual Hyper-Spectral Reconstruction CNN from an RGB Image. , 2018, , .		13
461	xUnit: Learning a Spatial Activation Function for Efficient Image Restoration. , 2018, , .		29
462	PU-Net: Point Cloud Upsampling Network. , 2018, , .		310
463	Large Receptive Field Networks for High-Scale Image Super-Resolution. , 2018, , .		18
464	Multi-level Wavelet-CNN for Image Restoration. , 2018, , .		462
465	IRGUN : Improved Residue Based Gradual Up-Scaling Network for Single Image Super Resolution. , 2018, , .		5
466	HSCNN+: Advanced CNN-Based Hyperspectral Recovery from RGB Images. , 2018, , .		134
467	FSRNet: End-to-End Learning Face Super-Resolution with Facial Priors. , 2018, , .		308
468	Deep Back-Projection Networks for Super-Resolution. , 2018, , .		892
469	Memory Optimized Deep Dense Network for Image Super-resolution. , 2018, , .		0
470	Diffusion-Steered Super-Resolution Image Reconstruction. , 2018, , .		0
471	APPLYING CONVOLUTIONAL NEURAL NETWORKS FOR THE SOURCE RECONSTRUCTION. Progress in Electromagnetics Research M, 2018, 76, 91-99.	0.5	15
472	Generative Adversarial Image Super-Resolution Through Deep Dense Skip Connections. Computer Graphics Forum, 2018, 37, 289-300.	1.8	19
473	Terrain Super-Resolution through Aerial Imagery and Fully Convolutional Networks. Computer Graphics Forum, 2018, 37, 101-110.	1.8	16
474	A CNN-Based Model for Pansharpening of WorldView-3 Images. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
475	FPGA Implementation of a Real-Time Super-Resolution System Using Flips and an RNS-Based CNN. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 2280-2289.	0.2	8
476	A Two-Step Learning and Interpolation Method for Location-Based Channel Database Construction. , 2018, , .		10
477	DEEP JOINT DEMOSAICING AND SUPER RESOLUTION ON HIGH RESOLUTION BAYER SENSOR DATA. , 2018, , .		2
478	Multi Spectral Image Fusion with Deep Convolutional Network. , 2018, , .		5
479	Inverse Convolutional Neural Networks for Learning from Label Proportions. , 2018, , .		3
480	Multi-scale Weighted Nuclear Norm Image Restoration. , 2018, , .		46
481	A Deep Dictionary Model for Image Super-Resolution. , 2018, , .		9
482	Revised Spatial Transformer Network towards Improved Image Super-resolutions. , 2018, , .		4
483	Pyramid Embedded Generative Adversarial Network for Automated Font Generation. , 2018, , .		10
484	Convolutional neural networks for whole slide image superresolution. Biomedical Optics Express, 2018, 9, 5368.	1.5	13
485	FacelD-GAN: Learning a Symmetry Three-Player GAN for Identity-Preserving Face Synthesis. , 2018, , .		105
486	A Dual Path Deep Network for Single Image Super-Resolution Reconstruction. , 2018, , .		0
487	Non-locally Enhanced Encoder-Decoder Network for Single Image De-raining. , 2018, , .		157
488	A Fully Progressive Approach to Single-Image Super-Resolution. , 2018, , .		173
489	Diffy: a DÃ©jÃ© vu-Free Differential Deep Neural Network Accelerator. , 2018, , .		35
490	Optimize deep super-resolution and denoising for compressed textures. , 2018, , .		2
491	Tread Pattern Image Classification using Convolutional Neural Network Based on Transfer Learning. , 2018, , .		8
492	Single Image Super-Resolution Based on Wasserstein GANs. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
493	Super-FAN: Integrated Facial Landmark Localization and Super-Resolution of Real-World Low Resolution Faces in Arbitrary Poses with GANs. , 2018, , .		216
494	Recursive Inception Network for Super-Resolution. , 2018, , .		2
495	Aerial-Image Denoising Based on Convolutional Neural Network with Multi-Scale Residual Learning Approach. Information (Switzerland), 2018, 9, 169.	1.7	9
496	Deep Super Resolution for Recovering Physiological Information from Videos. , 2018, , .		36
497	Notice of Violation of IEEE Publication Principles: Blood Cell Detection and Counting Using Convolutional Sparse Dictionary Learning. , 2018, , .		1
498	Recognition Effects of Deep Convolutional Neural Network on Smudged Handwritten Digits. , 2018, , .		0
499	GAN-Based Super Resolution for Accurate 3D Surface Reconstruction from Light Field Skin Images Towards Haptic Palpation. , 2018, , .		2
500	Single-image Super-resolution via De-biased Sparse Representation. , 2018, , .		1
501	Visual Quality Enhancement Of Images Under Adverse Weather Conditions. , 2018, , .		3
502	RGB-NIR Demosaicing Using Deep Residual U-Net. , 2018, , .		6
503	A Novel Image Enhancement Method Based on Variational Retinex Approach. IOP Conference Series: Materials Science and Engineering, 2018, 452, 042202.	0.3	1
505	Recovering Realistic Texture in Image Super-Resolution by Deep Spatial Feature Transform. , 2018, , .		597
506	Multi-Branch Deep Residual Network for Single Image Super-Resolution. Algorithms, 2018, 11, 144.	1.2	5
507	Research on the Correlation between Payment Methods of M&A and M&A Performance of Listed Company. International Journal of Economics and Finance, 2018, 10, 90.	0.2	1
508	Defocus Blur Detection via Multi-stream Bottom-Top-Bottom Fully Convolutional Network. , 2018, , .		58
509	Image Super-Resolution Using Memory Mechanism. , 2018, , .		0
510	Dual Discriminator Generative Adversarial Network for Single Image Super-Resolution. , 2018, , .		1
511	SINGLE IMAGE SUPER-RESOLUTION USING A NON-LOCAL 3D CONVOLUTIONAL NEURAL NETWORK. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
512	A Nonsmooth Graph-Based Approach to Light Field Super-Resolution. , 2018, , .		5
513	Anchored neighborhood deep network for single-image super-resolution. Eurasip Journal on Image and Video Processing, 2018, 2018, .	1.7	8
514	Temperature Anomaly Location and Cable Equipment recognition with an Improved Convolutional Neural Network Method and Transfer Learning. , 2018, , .		1
515	Inversion of Deep Networks for Modelling Variations in Spatial Distributions of Land Cover Classes Across Scales. , 2018, , .		1
516	Deep Pixel Probabilistic Model for Super Resolution Based on Human Visual Saliency Mechanism. , 2018, , .		0
517	Face Hallucination Techniques: A Survey. , 2018, , .		9
518	No Reference Evaluation in Super-Resolution for CCTV Footage. , 2018, , .		1
519	How Should we Handle 4D Light Fields with CNNs?. , 2018, , .		5
520	Integrating GAN with CNN for Face Sketch Synthesis. , 2018, , .		4
521	Hallucinating Dense Optical Flow from Sparse Lidar for Autonomous Vehicles. , 2018, , .		6
522	Evaluation of Deep Super Resolution Methods for Textual Images. Procedia Computer Science, 2018, 135, 331-337.	1.2	3
523	Lightweight Convolutional Neural Network with SE Module for Image Super-Resolution. Procedia Computer Science, 2018, 139, 144-150.	1.2	2
524	SLIC Based Digital Image Enlargement. , 2018, , .		0
525	Style Transfer at 100+ FPS Via Sub-Pixel Super-Resolution. , 2018, , .		2
526	Enhancing Digital Zoom in Mobile Phone Cameras by Low Complexity Super-Resolution. , 2018, , .		2
527	Dataset Encoding Platform Using Generative Networks. , 2018, , .		0
528	Image Demosaicking Using Densely Connected Convolutional Neural Network. , 2018, , .		0
529	A neural-based approach for improving the magnification of degraded document images from mobile terminals. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
530	Image Restoration Based on Deep Convolutional Network in Wavefront Coding Imaging System. , 2018, , .		3
531	Transferring Super Resolution Convolutional Neural Network For Remote Sensing Data Sharpening. , 2018, , .		2
532	Improved Image Expansion for Preserving Sharpness Without Jagged Edges. , 2018, , .		2
533	Algorithmic Aspects of Inverse Problems Using Generative Models. , 2018, , .		5
534	Parzen Density Estimator for Complex Pattern Classification and High Dimensional Data Analysis. , 2018, , .		1
535	An Novel Face Image Super-Resolution Based on Sparse Representation and Wasserstein Distance. , 2018, , .		0
536	Unsupervised Transformation Network Based on GANs for Target-Domain Oriented Image Translation. IEEE Access, 2018, 6, 61342-61350.	2.6	8
537	Persistent Memory Residual Network for Single Image Super Resolution. , 2018, , .		13
538	Super-Resolution Generator Networks: A comparative study. , 2018, , .		0
539	Video Super-Resolution via Dynamic Local Filter Network. , 2018, , .		3
540	Channel Attention and Multi-level Features Fusion for Single Image Super-Resolution. , 2018, , .		19
541	Image Super-resolution Reconstruction Algorithm Based on Convolutional Neural Network. , 2018, , .		1
542	SRCNN-Based Enhanced Imaging for Low Frequency Radar. , 2018, , .		11
543	Sparse Representation Based Image Super-resolution Using Large Patches. Chinese Journal of Electronics, 2018, 27, 813-820.	0.7	1
544	Super-Resolution PET Using A Very Deep Convolutional Neural Network. , 2018, , .		7
545	Edge-Based Loss Function for Single Image Super-Resolution. , 2018, , .		29
546	Improving Tomographic Reconstruction from Limited Data Using Mixed-Scale Dense Convolutional Neural Networks. Journal of Imaging, 2018, 4, 128.	1.7	73
547	Super-Resolution Quality Assessment: Subjective Evaluation Database and Quality Index Based on Perceptual Structure Measurement. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
548	Soccer Video Super-Resolution via Sub-Pixel Convolutional Neural Network. , 2018, , .		1
549	Joint License Plate Super-Resolution and Recognition in One Multi-Task Gan Framework. , 2018, , .		7
550	Single Image Super-Resolution via the Implementation of the Hardware-Friendly Sparse Coding. , 2018, , .		4
551	A Frequency Domain Neural Network for Fast Image Super-resolution. , 2018, , .		12
552	Low-dose CT Denoising with Dilated Residual Network. , 2018, 2018, 5117-5120.		21
553	Unsupervised Super-Resolution Framework for Medical Ultrasound Images Using Dilated Convolutional Neural Networks. , 2018, , .		16
554	Super-resolution of 3D Magnetic Resonance Images by Random Shifting and Convolutional Neural Networks. , 2018, , .		2
555	Image Super-Resolution Based on Dense Convolutional Network. Lecture Notes in Computer Science, 2018, , 134-145.	1.0	0
556	Piece-Wise Kernel Regression for Example-Based Super-Resolution. , 2018, , .		1
557	SqueezeGAN: Image to Image Translation With Minimum Parameters. , 2018, , .		2
558	A Deep Neural Architecture for Image Super Resolution. , 2018, , .		3
559	High-Performance Super-Resolution via Patch-Based Deep Neural Network for Real-Time Implementation. IEICE Transactions on Information and Systems, 2018, E101.D, 2808-2817.	0.4	4
560	Deep Image- To-Image Transfer Applied to Resolution Enhancement of Sentinel-2 Images. , 2018, , .		14
561	Estimating the NDVI from SAR by Convolutional Neural Networks. , 2018, , .		14
562	Aesthetic-Driven Image Enhancement by Adversarial Learning. , 2018, , .		68
563	Learning multi-denoising autoencoding priors for image super-resolution. Journal of Visual Communication and Image Representation, 2018, 57, 152-162.	1.7	7
564	Image Deblurring and Super-Resolution Using Deep Convolutional Neural Networks. , 2018, , .		13
565	Learning Resolution-independent Image Representations. , 2018, , .		0



#	ARTICLE	IF	CITATIONS
566	A Low-Light Sensor Image Enhancement Algorithm Based on HSI Color Model. <i>Sensors</i> , 2018, 18, 3583.	2.1	23
567	Multi-Scale Super-Resolution Reconstruction via a Deep Winner-Take-All Cascaded NetWork. , 2018, , .		0
568	Compnet: A New Scheme for Single Image Super Resolution Based on Deep Convolutional Neural Network. <i>IEEE Access</i> , 2018, 6, 59963-59974.	2.6	15
569	Learning Dual Convolutional Neural Networks for Low-Level Vision. , 2018, , .		122
570	Identity Aware Synthesis for Cross Resolution Face Recognition. , 2018, , .		19
571	Deep Distillation Recursive Network for Remote Sensing Imagery Super-Resolution. <i>Remote Sensing</i> , 2018, 10, 1700.	1.8	88
572	Preliminary Investigation of Fine-Grained Gesture Recognition With Signal Super-Resolution. , 2018, , .		1
573	Deep Learning Based Computer Generated Face Identification Using Convolutional Neural Network. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2610.	1.3	37
574	Integrating Local and Non-local Denoiser Priors for Image Restoration. , 2018, , .		20
575	A Multi-Direction Subbands and Deep Neural Networks Bassed Pan-Sharpning Method. , 2018, , .		1
576	Fast and Accurate Single Image Super-Resolution via Information Distillation Network. , 2018, , .		500
577	High-Quality Virtual View Synthesis for Light Field Cameras Using Multi-Loss Convolutional Neural Networks. , 2018, , .		2
578	Single-image Dehazing Algorithm Based on Convolutional Neural Networks. , 2018, , .		2
579	Single Image Super-Resolution With Learning Iteratively Non-Linear Mapping Between Low- and High-Resolution Sparse Representations. , 2018, , .		3
580	SESR: Single Image Super Resolution with Recursive Squeeze and Excitation Networks. , 2018, , .		33
581	Learning a Single Convolutional Super-Resolution Network for Multiple Degradations. , 2018, , .		618
582	Fully Point-wise Convolutional Neural Network for Modeling Statistical Regularities in Natural Images. , 2018, , .		26
583	Inverse Tone Mapping Operator Using Sequential Deep Neural Networks Based on the Human Visual System. <i>IEEE Access</i> , 2018, 6, 52058-52072.	2.6	14

#	ARTICLE	IF	CITATIONS
584	GenLR-Net: Deep Framework for Very Low Resolution Face and Object Recognition with Generalization to Unseen Categories. , 2018, , .		17
585	Parasitic Network: Learning-Based Network Downsizing of Very Deep Neural Networks for Computer Vision. , 2018, , .		1
586	3D Convolutional Generative Adversarial Networks for Missing Traffic Data Completion. , 2018, , .		11
587	Convolutional Neural Networks Without Any Checkerboard Artifacts. , 2018, , .		0
588	Non-blind Image Restoration Based on Convolutional Neural Network. , 2018, , .		11
589	Enhanced Deep Image Super-Resolution. , 2018, , .		1
590	Accurate License Plate Recognition and Super-Resolution Using a Generative Adversarial Networks on Traffic Surveillance Video. , 2018, , .		24
591	Recover Water Bodies in Multi-spectral Satellite Images with Deep Neural Nets. , 2018, , .		1
592	Effect of Training and Test Datasets on Image Restoration and Super-Resolution by Deep Learning. , 2018, , .		2
593	Robust Weighted Regression for Ultrasound Image Super-Resolution. , 2018, , .		2
594	Application of Single Image Super-Resolution in Human Ear Recognition Using Eigenvalues. , 2018, , .		2
595	Non-Local Super Resolution in Ultrasound Imaging. , 2018, , .		4
596	Feature Super-Resolution: Make Machine See More Clearly. , 2018, , .		35
597	Research on Single-Frame Super-Resolution Reconstruction Algorithm for Low Resolution Cell Images Based on Convolutional Neural Network. , 2018, , .		2
598	Crafting a Toolchain for Image Restoration by Deep Reinforcement Learning. , 2018, , .		123
599	Residual Dense Network for Image Super-Resolution. , 2018, , .		2,230
600	Learning-based Hierarchical Clustering Regression for Efficient Unaligned Face Hallucination. , 2018, , .		0
601	A Modified U-Net Convolutional Network Featuring a Nearest-neighbor Re-sampling-based Elastic-Transformation for Brain Tissue Characterization and Segmentation. , 2018, 2018, .		20

#	ARTICLE	IF	CITATIONS
602	Deep joint rain and haze removal from a single image. , 2018, , .		17
603	Unsupervised Sparse Dirichlet-Net for Hyperspectral Image Super-Resolution. , 2018, , .		151
604	Unsupervised Image Super-Resolution Using Cycle-in-Cycle Generative Adversarial Networks. , 2018, , .		324
605	On Application of Convolutional Neural Network for Classification of Plant Images. , 2018, , .		3
606	Time-Frequency Networks for Audio Super-Resolution. , 2018, , .		44
607	Contextual-Field Supported Iterative Representation for Face Hallucination. Lecture Notes in Computer Science, 2018, , 534-546.	1.0	0
608	Hybrid Multi-level Regularizations with Sparse Representation for Single Depth Map Super-Resolution. 3D Research, 2018, 9, 1.	1.8	0
609	Rat Cortical Layers Classification extracting Evoked Local Field Potential Images with Implanted Multi-Electrode Sensor. , 2018, , .		3
610	Dilated Deep Residual Network for Post-processing in TPG Based Image Coding. Lecture Notes in Computer Science, 2018, , 293-297.	1.0	1
611	Single Frame Super Resolution with Convolutional Neural Network for Remote Sensing Imagery. , 2018, , .		6
612	Enhancing OCR Accuracy with Super Resolution. , 2018, , .		17
613	Video Super Resolution Based on Deep Convolution Neural Network With Two-Stage Motion Compensation. , 2018, , .		3
614	A CNN-Based Fusion Method for Super-Resolution of Sentinel-2 Data. , 2018, , .		15
615	Image Up-Sampling for Super Resolution with Generative Adversarial Network. Lecture Notes in Computer Science, 2018, , 258-270.	1.0	1
616	Face Hallucination with Weighted Nuclear Norm Constraint. Journal of Shanghai Jiaotong University (Science), 2018, 23, 627-635.	0.5	0
617	Combining Convolutional Neural Network and Markov Random Field for Semantic Image Retrieval. Advances in Multimedia, 2018, 2018, 1-11.	0.2	1
618	Not Just Privacy. , 2018, , .		123
619	Wide-Band Color Imagery Restoration for RGB-NIR Single Sensor Images. Sensors, 2018, 18, 2059.	2.1	11

#	ARTICLE	IF	CITATIONS
620	Iterative quality enhancement via residual-artifact learning networks for low-dose CT. Physics in Medicine and Biology, 2018, 63, 215004.	1.6	31
621	DeepCS: Deep Convolutional Neural Network and SVM Based Single Image Super-Resolution. Lecture Notes in Computer Science, 2018, , 3-13.	1.0	0
622	HNSR: Highway Networks Based Deep Convolutional Neural Networks Model for Single Image Super-Resolution. , 2018, , .		3
623	Face Hallucination Based on Key Parts Enhancement. , 2018, , .		6
624	Single Image Super Resolution Based on Deep Residual Network via Lateral Modules. , 2018, , .		0
625	A Progressively Enhanced Network for Video Satellite Imagery Superresolution. IEEE Signal Processing Letters, 2018, 25, 1630-1634.	2.1	54
626	SLR: Semi-Coupled Locality Constrained Representation for Very Low Resolution Face Recognition and Super Resolution. IEEE Access, 2018, 6, 56269-56281.	2.6	12
627	Enhancement of Perivascular Spaces Using a Very Deep 3D Dense Network. Lecture Notes in Computer Science, 2018, , 18-25.	1.0	3
628	Image up-sampling using deep cascaded neural networks in dual domains for images down-sampled in DCT domain. Journal of Visual Communication and Image Representation, 2018, 56, 144-149.	1.7	4
629	Dense Bynet: Residual Dense Network for Image Super Resolution. , 2018, , .		25
630	Image Restoration with Deep Generative Models. , 2018, , .		16
631	Microarray Camera Image Super-Resolution with Neural Network and Fusion of V-System. , 2018, , .		0
632	Learning a Dilated Residual Network for SAR Image Despeckling. Remote Sensing, 2018, 10, 196.	1.8	134
633	Image Zooming Using a Multi-layer Neural Network. Computer Journal, 2018, 61, 1737-1748.	1.5	4
634	Fast QTBT Partition Algorithm for Intra Frame Coding through Convolutional Neural Network. IEEE Access, 2018, 6, 54660-54673.	2.6	32
635	Psgan: A Generative Adversarial Network for Remote Sensing Image Pan-Sharpener. , 2018, , .		71
636	Sentinel-2 Image Fusion Using a Deep Residual Network. Remote Sensing, 2018, 10, 1290.	1.8	41
637	Study on an optical encryption algorithm based on compressive ghost imaging and super-resolution reconstruction. Laser Physics, 2018, 28, 125202.	0.6	2

#	ARTICLE	IF	CITATIONS
638	Deep Learning Based Single Image Super-Resolution: A Survey. Lecture Notes in Computer Science, 2018, , 106-119.	1.0	20
639	Dmccnn: Dual-Domain Multi-Scale Convolutional Neural Network for Compression Artifacts Removal. , 2018, , .		93
640	License Plate Image Super-Resolution Based on Convolutional Neural Network. , 2018, , .		10
641	Quality Enhancement for Intra Frame Coding Via Cnns: An Adversarial Approach. , 2018, , .		14
642	Accurate Spectral Super-Resolution from Single RGB Image Using Multi-scale CNN. Lecture Notes in Computer Science, 2018, , 206-217.	1.0	45
643	Multilevel Residual Learning for Single Image Super Resolution. Lecture Notes in Computer Science, 2018, , 537-549.	1.0	0
644	Face Hallucination Using Manifold-Regularized Group Locality-Constrained Representation. , 2018, , .		3
645	Improving Super-Resolution Reconstruction with Regularized Extreme Learning Machine Networks. , 2018, , .		1
646	Single Image Super Resolution via a Refined Densely Connected Inception Network. , 2018, , .		1
647	SSF-CNN: Spatial and Spectral Fusion with CNN for Hyperspectral Image Super-Resolution. , 2018, , .		53
648	Computed Tomography Image Enhancement Using 3D Convolutional Neural Network. Lecture Notes in Computer Science, 2018, , 291-299.	1.0	9
649	Deep Convolutional Neural Network with Feature Fusion for Image Super-Resolution. Communications in Computer and Information Science, 2018, , 289-298.	0.4	0
650	Solving Linear Inverse Problems Using Gan Priors: An Algorithm with Provable Guarantees. , 2018, , .		57
651	A Deep Reconstruction CNN for Illumination-robust Face Image Recovery and Recognition. , 2018, , .		1
652	Convolutional Neural Network for Smoke Image Super-Resolution. , 2018, , .		3
653	Subject-Specific Convolutional Neural Networks for Accelerated Magnetic Resonance Imaging. , 2018, , .		1
654	Accurate Image Super-Resolution Using Cascaded Multi-Column Convolutional Neural Networks. , 2018, , .		5
655	Perceptual-DualGAN: Perceptual Losses for Image to Image Translation with Generative Adversarial Nets. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
656	Image Reconstruction from Patch Compressive Sensing Measurements. , 2018, , .		5
657	When Deep Fool Meets Deep Prior. , 2018, , .		18
658	B4MultiSR: A Benchmark for Multiple-Image Super-Resolution Reconstruction. Communications in Computer and Information Science, 2018, , 361-375.	0.4	3
659	Deep Mr Image Super-Resolution Using Structural Priors. , 2018, 2018, 410-414.		4
660	Deep Learning Based Super Resolution Using Significant and General Regions. , 2018, , .		1
661	Low Resolution Face Recognition and Reconstruction Via Deep Canonical Correlation Analysis. , 2018, , .		9
662	Residual Super-Resolution Single Shot Network for Low-Resolution Object Detection. IEEE Access, 2018, 6, 47780-47793.	2.6	21
663	Super-Resolution of Magnetic Resonance Images via Convex Optimization with Local and Global Prior Regularization and Spectrum Fitting. International Journal of Biomedical Imaging, 2018, 2018, 1-17.	3.0	2
664	Efficient and Accurate MRI Super-Resolution Using a Generative Adversarial Network and 3D Multi-level Densely Connected Network. Lecture Notes in Computer Science, 2018, , 91-99.	1.0	171
665	Region-Wise Super-Resolution Algorithm Based On the Viewpoint Distribution. , 2018, , .		1
666	Handwritten Bangla Character Recognition Using the State-of-the-Art Deep Convolutional Neural Networks. Computational Intelligence and Neuroscience, 2018, 2018, 1-13.	1.1	67
667	Locality Adaptive Multi-modality GANs for High-Quality PET Image Synthesis. Lecture Notes in Computer Science, 2018, 11070, 329-337.	1.0	12
668	Deep Learning Imaging through Fully-Flexible Glass-Air Disordered Fiber. ACS Photonics, 2018, 5, 3930-3935.	3.2	31
669	Analysis of Content-Aware Image Compression with VGG16. , 2018, , .		7
670	Super-Resolution Using Convolutional Neural Networks Without Any Checkerboard Artifacts. , 2018, , .		34
671	Robust destriping method based on data-driven learning. Infrared Physics and Technology, 2018, 94, 142-150.	1.3	7
672	Trainable spectral difference learning with spatial starting for hyperspectral image denoising. Neural Networks, 2018, 108, 272-286.	3.3	15
673	Cascaded Random Forests for Fast Image Super-Resolution. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
674	Robust Visual Tracking in Low-Resolution Sequence. , 2018, , .		4
675	Fault Detection for Gas Turbine Hot Components Based on a Convolutional Neural Network. Energies, 2018, 11, 2149.	1.6	22
676	Fusing multi-scale information in convolution network for MR image super-resolution reconstruction. BioMedical Engineering OnLine, 2018, 17, 114.	1.3	29
677	RecNet: A Convolutional Network for Efficient Radiomap Reconstruction. , 2018, , .		12
678	Enabling fast and high quality LED photoacoustic imaging: a recurrent neural networks based approach. Biomedical Optics Express, 2018, 9, 3852.	1.5	53
679	Cascaded reconstruction network for compressive image sensing. Eurasip Journal on Image and Video Processing, 2018, 2018, .	1.7	11
680	Deep Convolutional Neural Networks for Manga Show-Through Cancellation. IEICE Transactions on Information and Systems, 2018, E101.D, 2844-2848.	0.4	1
681	Satellite Image Enhancement Using Neural Networks. , 2018, , .		1
682	A Wavelet-based Learning for Face Hallucination with Loop Architecture. , 2018, , .		0
683	Brain MRI super resolution using 3D deep densely connected neural networks. , 2018, , .		154
684	Compressive Sensing Image Reconstruction Using Super-Resolution Convolutional Neural Network. , 2018, , .		1
685	Perceptual Adversarial Networks for Image-to-Image Transformation. IEEE Transactions on Image Processing, 2018, 27, 4066-4079.	6.0	256
686	Learning to See Through Turbulent Water. , 2018, , .		22
687	Super-Resolution for Overhead Imagery Using DenseNets and Adversarial Learning. , 2018, , .		13
688	CT-SRCNN: Cascade Trained and Trimmed Deep Convolutional Neural Networks for Image Super Resolution. , 2018, , .		17
689	Survey on deep learning for radiotherapy. Computers in Biology and Medicine, 2018, 98, 126-146.	3.9	219
690	Spatial-temporal fraction map fusion with multi-scale remotely sensed images. Remote Sensing of Environment, 2018, 213, 162-181.	4.6	30
691	Image Super-Resolution With Parametric Sparse Model Learning. IEEE Transactions on Image Processing, 2018, 27, 4638-4650.	6.0	30

#	ARTICLE	IF	CITATIONS
692	Deep learning for remote sensing image classification: A survey. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1264.	4.6	222
693	Porous Structure Reconstruction Using Convolutional Neural Networks. Mathematical Geosciences, 2018, 50, 781-799.	1.4	60
694	Efficient image super-resolution integration. Visual Computer, 2018, 34, 1065-1076.	2.5	13
695	Machine learning-based dual-energy CT parametric mapping. Physics in Medicine and Biology, 2018, 63, 125001.	1.6	23
696	A Variational Pansharpening Approach Based on Reproducible Kernel Hilbert Space and Heaviside Function. IEEE Transactions on Image Processing, 2018, 27, 4330-4344.	6.0	71
697	Performance evaluation of faster R-CNN on GPU for object detection. Journal of Fundamental and Applied Sciences, 2018, 9, 909.	0.2	2
698	Computed tomography super-resolution using deep convolutional neural network. Physics in Medicine and Biology, 2018, 63, 145011.	1.6	155
699	Real-time deep satellite image quality assessment. Journal of Real-Time Image Processing, 2018, 15, 477-494.	2.2	7
700	Robust face super-resolution via iterative sparsity and locality-constrained representation. Information Sciences, 2018, 463-464, 227-244.	4.0	34
701	Effect of fusing features from multiple DCNN architectures in image classification. IET Image Processing, 2018, 12, 1102-1110.	1.4	37
702	Learned perceptual image enhancement. , 2018, , .		37
703	Statistical Atlases and Computational Models of the Heart. ACDC and MMWHS Challenges. Lecture Notes in Computer Science, 2018, , .	1.0	16
704	Local spatial information for image super-resolution. Cognitive Systems Research, 2018, 52, 49-57.	1.9	9
705	RevHashNet: Perceptually de-hashing real-valued image hashes for similarity retrieval. Signal Processing: Image Communication, 2018, 68, 68-75.	1.8	9
706	Structural-Correlated Self-Examples Based Superresolution of Single Remote Sensing Image. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3209-3223.	2.3	3
707	Image Super-Resolution Reconstruction Based on Disparity Map and CNN. IEEE Access, 2018, 6, 53489-53498.	2.6	2
708	A New Deep Generative Network for Unsupervised Remote Sensing Single-Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6792-6810.	2.7	129
709	Simultaneous single- and multi-contrast super-resolution for brain MRI images based on a convolutional neural network. Computers in Biology and Medicine, 2018, 99, 133-141.	3.9	99



#	ARTICLE	IF	CITATIONS
710	Sparse multi-modal probabilistic latent semantic analysis for single-image super-resolution. Signal Processing, 2018, 152, 227-237.	2.1	9
711	Hyperspectral image super-resolution with spectral-spatial network. International Journal of Remote Sensing, 2018, 39, 7806-7829.	1.3	22
712	A Deep Network Architecture for Super-Resolution-Aided Hyperspectral Image Classification With Classwise Loss. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4650-4663.	2.7	62
713	Panchromatic and multi-spectral image fusion for new satellites based on multi-channel deep model. Machine Vision and Applications, 2018, 29, 933-946.	1.7	9
714	Evaluating super-resolution reconstruction of satellite images. Acta Astronautica, 2018, 153, 15-25.	1.7	26
715	Adaptive Effective Wiener Filter- and Regression-Based Upsampling for Asymmetric Resolution Stereoscopic Video Coding. IEEE Transactions on Image Processing, 2018, 27, 5696-5706.	6.0	1
716	Deep-STORM: super-resolution single-molecule microscopy by deep learning. Optica, 2018, 5, 458.	4.8	430
717	Toward Ultralightweight Remote Sensing With Harmonic Lenses and Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3338-3348.	2.3	42
718	Using generative adversarial networks to improve deep-learning fault interpretation networks. The Leading Edge, 2018, 37, 578-583.	0.4	54
719	Single-image-based nonuniformity correction of uncooled long-wave infrared detectors: a deep-learning approach. Applied Optics, 2018, 57, D155.	0.9	66
720	Exploiting Noise Correlation for Channel Decoding with Convolutional Neural Networks. , 2018, , .		5
721	Predicting body movements for person identification under different walking conditions. Forensic Science International, 2018, 290, 303-309.	1.3	7
722	Towards Evolutionary Compression. , 2018, , .		29
723	Image super-resolution via adaptive sparse representation and self-learning. IET Computer Vision, 2018, 12, 753-761.	1.3	9
724	SAR ATR of Ground Vehicles Based on LM-BN-CNN. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7282-7293.	2.7	71
725	Deep unsupervised learning for image super-resolution with generative adversarial network. Signal Processing: Image Communication, 2018, 68, 88-100.	1.8	19
726	Removing Stripe Noise From Infrared Cloud Images via Deep Convolutional Networks. IEEE Photonics Journal, 2018, 10, 1-14.	1.0	44
727	Deep Adversarial Learning for Multi-Modality Missing Data Completion. , 2018, , .		65

#	ARTICLE	IF	CITATIONS
728	Hyperspectral and Multispectral Image Fusion via Deep Two-Branches Convolutional Neural Network. Remote Sensing, 2018, 10, 800.	1.8	139
729	Image Translation by Domain-Adversarial Training. Computational Intelligence and Neuroscience, 2018, 2018, 1-11.	1.1	1
730	Multimedia super-resolution via deep learning: A survey. , 2018, 81, 198-217.		64
731	Deriving High Spatiotemporal Remote Sensing Images Using Deep Convolutional Network. Remote Sensing, 2018, 10, 1066.	1.8	99
732	Research on geological hazard identification based on deep learning. AIP Conference Proceedings, 2018, , .	0.3	2
733	Image Superresolution Using Densely Connected Residual Networks. IEEE Signal Processing Letters, 2018, 25, 1565-1569.	2.1	14
734	Real-Time Multi-Digit Recognition System Using Deep Learning on an Embedded System. , 2018, , .		1
735	End-to-end optimization of optics and image processing for achromatic extended depth of field and super-resolution imaging. ACM Transactions on Graphics, 2018, 37, 1-13.	4.9	230
736	Digital radiography image denoising using a generative adversarial network. Journal of X-Ray Science and Technology, 2018, 26, 523-534.	0.7	22
737	M-SAC-VLADNet: A Multi-Path Deep Feature Coding Model for Visual Classification. Entropy, 2018, 20, 341.	1.1	1
738	Piecewise linear regression-based single image super-resolution via Hadamard transform. Information Sciences, 2018, 462, 315-330.	4.0	11
739	Mixed Gaussian-impulse noise reduction from images using convolutional neural network. Signal Processing: Image Communication, 2018, 68, 26-41.	1.8	45
740	A comparative study on super resolution with deep learning. , 2018, , .		1
741	A CNN-Based Fusion Method for Feature Extraction from Sentinel Data. Remote Sensing, 2018, 10, 236.	1.8	117
742	Scene Classification Based on a Deep Random-Scale Stretched Convolutional Neural Network. Remote Sensing, 2018, 10, 444.	1.8	73
743	Multi-Scale Residual Convolutional Neural Network for Haze Removal of Remote Sensing Images. Remote Sensing, 2018, 10, 945.	1.8	56
744	Spatio-Temporal Super-Resolution Reconstruction of Remote-Sensing Images Based on Adaptive Multi-Scale Detail Enhancement. Sensors, 2018, 18, 498.	2.1	19
745	Single Image Super-Resolution Based on Multi-Scale Competitive Convolutional Neural Network. Sensors, 2018, 18, 789.	2.1	32

#	ARTICLE	IF	CITATIONS
746	Super-Resolution for "Jilin-1" Satellite Video Imagery via a Convolutional Network. Sensors, 2018, 18, 1194.	2.1	47
747	Adaptive learning-based projection method for smoke simulation. Computer Animation and Virtual Worlds, 2018, 29, e1837.	0.7	7
748	Dual-Streams Edge Driven Encoder-Decoder Network for Image Super-Resolution. IEEE Access, 2018, 6, 33421-33431.	2.6	12
749	MODIS ocean color product downscaling via spatio-temporal fusion and regression: The case of chlorophyll-a in coastal waters. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 340-361.	1.4	8
750	GUN: Gradual Upsampling Network for Single Image Super-Resolution. IEEE Access, 2018, 6, 39363-39374.	2.6	41
751	Structurally-Sensitive Multi-Scale Deep Neural Network for Low-Dose CT Denoising. IEEE Access, 2018, 6, 41839-41855.	2.6	169
752	Temporal Coherent Video Super-resolution via Pre-frame-constrained Sparse Reconstruction. , 2018, , .		0
753	Remote sensing image scene classification based on generative adversarial networks. Remote Sensing Letters, 2018, 9, 617-626.	0.6	42
754	Video Super-Resolution via Residual Learning. IEEE Access, 2018, 6, 23767-23777.	2.6	26
755	A novel refocusing distance measurement method using super-resolved light field images. Computer Animation and Virtual Worlds, 2018, 29, e1828.	0.7	1
756	Improving resolution of <scp>MR</scp> images with an adversarial network incorporating images with different contrast. Medical Physics, 2018, 45, 3120-3131.	1.6	71
757	Low - resolution vehicle recognition based on deep feature fusion. Multimedia Tools and Applications, 2018, 77, 27617-27639.	2.6	4
758	Super-Resolution Based on Noise Resistance Deep Convolutional Network. , 2018, , .		2
759	Unsupervised face recognition in the wild using high-dimensional features under super-resolution and 3D alignment effect. Signal, Image and Video Processing, 2018, 12, 1353-1360.	1.7	3
760	Deep learning enhancement of infrared face images using generative adversarial networks. Applied Optics, 2018, 57, D98.	0.9	28
761	Learning deconvolutional deep neural network for high resolution medical image reconstruction. Information Sciences, 2018, 468, 142-154.	4.0	58
762	SRMC: A Multibit Memristor Crossbar for Self-Renewing Image Mask. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 2830-2841.	2.1	9
763	Single Image Super Resolution via Neighbor Reconstruction. Lecture Notes in Computer Science, 2018, , 406-415.	1.0	0

#	ARTICLE	IF	CITATIONS
765	tempoGAN. ACM Transactions on Graphics, 2018, 37, 1-15.	4.9	178
766	A Novel Saliency-Oriented Superresolution Method for Optical Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1922-1926.	1.4	2
767	Improving the Resolution of Retinal OCT with Deep Learning. Communications in Computer and Information Science, 2018, , 325-332.	0.4	3
768	Sketch simplification based on conditional random field and least squares generative adversarial networks. Neurocomputing, 2018, 316, 178-189.	3.5	10
769	Image super-resolution via a densely connected recursive network. Neurocomputing, 2018, 316, 270-276.	3.5	9
770	Video Restoration Using Convolutional Neural Networks for Low-Level FPGAs. Lecture Notes in Computer Science, 2018, , 255-265.	1.0	0
771	Point-based rendering enhancement via deep learning. Visual Computer, 2018, 34, 829-841.	2.5	20
772	Neighborhood regularized image superresolution for applications to microscopic imaging. , 2018, , .		1
773	HDR video super-resolution for future video coding. , 2018, , .		4
774	Synthesizing cloth wrinkles by CNN-based geometry image superresolution. Computer Animation and Virtual Worlds, 2018, 29, e1810.	0.7	12
775	Bibliometric Analysis of the Deep Learning Research Status with the Data from Web of Science. Lecture Notes in Computer Science, 2018, , 585-595.	1.0	2
776	An efficient grey wolf optimization algorithm based extended kalman filtering technique for various image modalities restoration process. Multimedia Tools and Applications, 2018, 77, 30205-30232.	2.6	5
777	Dual-modality endoscopic probe for tissue surface shape reconstruction and hyperspectral imaging enabled by deep neural networks. Medical Image Analysis, 2018, 48, 162-176.	7.0	44
778	Sparse representation and adaptive mixed samples regression for single image super-resolution. Signal Processing: Image Communication, 2018, 67, 79-89.	1.8	14
779	Convolutional Neural Networks for Noniterative Reconstruction of Compressively Sensed Images. IEEE Transactions on Computational Imaging, 2018, 4, 326-340.	2.6	86
780	An external learning assisted self-examples learning for image super-resolution. Neurocomputing, 2018, 312, 107-119.	3.5	4
781	Pixel-wise regression using U-Net and its application on pansharpening. Neurocomputing, 2018, 312, 364-371.	3.5	85
782	Robust Multi-Frame Super-Resolution Based on Spatially Weighted Half-Quadratic Estimation and Adaptive BTV Regularization. IEEE Transactions on Image Processing, 2018, 27, 4971-4986.	6.0	38

#	ARTICLE	IF	CITATIONS
783	Spherically contoured exponential scale mixture prior based nonlocal image restoration with ADMM framework. Journal of Visual Communication and Image Representation, 2018, 55, 374-392.	1.7	4
784	Deep convolutional networks with residual learning for accurate spectral-spatial denoising. Neurocomputing, 2018, 312, 372-381.	3.5	36
785	CNN-Based Bi-Directional Motion Compensation for High Efficiency Video Coding. , 2018, , .		27
786	MR Image Super-Resolution via Wide Residual Networks With Fixed Skip Connection. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1129-1140.	3.9	81
787	Iterative Relaxed Collaborative Representation With Adaptive Weights Learning for Noise Robust Face Hallucination. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1284-1295.	5.6	20
788	DRFN: Deep Recurrent Fusion Network for Single-Image Super-Resolution With Large Factors. IEEE Transactions on Multimedia, 2019, 21, 328-337.	5.2	80
789	Hyperspectral demosaicking and crosstalk correction using deep learning. Machine Vision and Applications, 2019, 30, 1-21.	1.7	26
790	Resolution-Aware Network for Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1259-1269.	5.6	30
791	Enhanced Bird Detection from Low-Resolution Aerial Image Using Deep Neural Networks. Neural Processing Letters, 2019, 49, 1021-1039.	2.0	9
792	Fully convolutional measurement network for compressive sensing image reconstruction. Neurocomputing, 2019, 328, 105-112.	3.5	39
793	Accelerating GMM-Based Patch Priors for Image Restoration: Three Ingredients for a $\times 100$ Speed-Up. IEEE Transactions on Image Processing, 2019, 28, 687-698.	6.0	21
794	Adjusted Non-Local Regression and Directional Smoothness for Image Restoration. IEEE Transactions on Multimedia, 2019, 21, 731-745.	5.2	30
795	Super-resolution based on self-example learning and guided filtering. Signal, Image and Video Processing, 2019, 13, 237-244.	1.7	4
796	Cascaded Deep Networks With Multiple Receptive Fields for Infrared Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2310-2322.	5.6	52
797	A Real-Time Convolutional Neural Network for Super-Resolution on FPGA With Applications to 4K UHD 60 fps Video Services. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2521-2534.	5.6	59
798	Fast and Accurate Image Super-Resolution with Deep Laplacian Pyramid Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2599-2613.	9.7	486
799	Multiframe image superresolution based on cepstral analysis. Signal, Image and Video Processing, 2019, 13, 199-207.	1.7	2
800	Packing Convolutional Neural Networks in the Frequency Domain. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2495-2510.	9.7	51

#	ARTICLE	IF	CITATIONS
801	Image super-resolution with densely connected convolutional networks. Applied Intelligence, 2019, 49, 125-136.	3.3	22
802	Gradual recovery based occluded digit images recognition. Multimedia Tools and Applications, 2019, 78, 2571-2586.	2.6	3
803	Augmenting photographs with textures using the Laplacian pyramid. Visual Computer, 2019, 35, 1489-1500.	2.5	5
804	Single image resolution enhancement by efficient dilated densely connected residual network. Signal Processing: Image Communication, 2019, 79, 13-23.	1.8	24
805	Remote Sensing Image Super-Resolution Using Sparse Representation and Coupled Sparse Autoencoder. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2663-2674.	2.3	89
806	Motion-Compensated Spatio-Temporal Filtering for Multi-Image and Multimodal Super-Resolution. International Journal of Computer Vision, 2019, 127, 1474-1500.	10.9	8
807	Gamut-Extension Methods Considering Color Information Restoration. IEEE Access, 2019, 7, 80146-80158.	2.6	3
808	Radar-Based Human Gait Recognition Using Dual-Channel Deep Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9767-9778.	2.7	57
809	Lost data recovery for structural health monitoring based on convolutional neural networks. Structural Control and Health Monitoring, 2019, 26, e2433.	1.9	77
810	Image Analysis and Recognition. Lecture Notes in Computer Science, 2019, , .	1.0	1
811	Intelligent Situational-Awareness Architecture for Hybrid Emergency Power Systems in More Electric Aircraft. Advanced Sciences and Technologies for Security Applications, 2019, , 27-44.	0.4	2
812	Towards realistic image via function learning. Multimedia Tools and Applications, 2019, 78, 29573-29580.	2.6	1
813	Superresolution of MRI brain images using unbalanced 3D Dense-U-Net network. , 2019, , .		9
814	InSituNet: Deep Image Synthesis for Parameter Space Exploration of Ensemble Simulations. IEEE Transactions on Visualization and Computer Graphics, 2019, 26, 1-1.	2.9	31
815	CT-image of rock samples super resolution using 3D convolutional neural network. Computers and Geosciences, 2019, 133, 104314.	2.0	78
816	High-Throughput Onboard Hyperspectral Image Compression With Ground-Based CNN Reconstruction. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9544-9553.	2.7	29
817	A Multi-level Aggregated Network for Image Restoration. , 2019, , .		1
818	InverseNet: Solving Inverse Problems of Multimedia Data with Splitting Networks. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
819	Dense Deep Joint Image Filter for Upsampling and Denoising. , 2019, , .		2
820	Coarse-to-Fine Image DeHashing Using Deep Pyramidal Residual Learning. IEEE Signal Processing Letters, 2019, 26, 1295-1299.	2.1	5
821	Rain-Density Squeeze-and-Excitation Residual Network for Single Image Rain-removal. , 2019, , .		2
822	Deep Pyramid Variation Learning for Image Interpolation. , 2019, , .		1
823	Recursive Multi-Stage Upscaling Network with Discriminative Fusion for Super-Resolution. , 2019, , .		3
824	Evaluation of algorithms for Multi-Modality Whole Heart Segmentation: An open-access grand challenge. Medical Image Analysis, 2019, 58, 101537.	7.0	180
825	MRI Gibbsâ€ringing artifact reduction by means of machine learning using convolutional neural networks. Magnetic Resonance in Medicine, 2019, 82, 2133-2145.	1.9	26
826	Multimodal Camera-Based Gender Recognition Using Human-Body Image With Two-Step Reconstruction Network. IEEE Access, 2019, 7, 104025-104044.	2.6	11
827	Deep Dictionary Learning: A PARametric NETwork Approach. IEEE Transactions on Image Processing, 2019, 28, 4790-4802.	6.0	49
828	Applications of Deep Learning to Neuro-Imaging Techniques. Frontiers in Neurology, 2019, 10, 869.	1.1	97
829	A Fractional-Order Variational Residual CNN for Low Dose CT Image Denoising. Lecture Notes in Computer Science, 2019, , 238-249.	1.0	5
830	Medical Image Analysis With Deep Neural Networks. , 2019, , 75-97.		16
831	Automatic image annotation using model fusion and multi-label selection algorithm. Journal of Intelligent and Fuzzy Systems, 2019, 37, 4999-5008.	0.8	3
832	Adaptive Importance Sampling Unscented Kalman Filter based SAR image super resolution. Computers and Geosciences, 2019, 133, 104310.	2.0	14
833	Image Denoising Using A Generative Adversarial Network. , 2019, , .		28
834	Component Semantic Prior Guided Generative Adversarial Network for Face Super-Resolution. IEEE Access, 2019, 7, 77027-77036.	2.6	8
835	From Coarse to Fine: A Stage-Wise Deraining Net. IEEE Access, 2019, 7, 84420-84428.	2.6	10
836	Dense-Connected Residual Network for Video Super-Resolution. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
837	CNN-Based Bi-Prediction Utilizing Spatial Information for Video Coding. , 2019, , .		3
838	Learning to Regularize Using Neumann Networks. , 2019, , .		0
839	Resolution enhancement in scanning electron microscopy using deep learning. Scientific Reports, 2019, 9, 12050.	1.6	78
840	Enhancing images of shale formations by a hybrid stochastic and deep learning algorithm. Neural Networks, 2019, 118, 310-320.	3.3	69
841	High-resolution paleovalley classification from airborne electromagnetic imaging and deep neural network training using digital elevation model data. Hydrology and Earth System Sciences, 2019, 23, 2561-2580.	1.9	30
842	Semantic Super-resolution for Extremely Low-resolution Vehicle License Plate. , 2019, , .		3
843	Deep Learning for Single Image Super-Resolution: A Brief Review. IEEE Transactions on Multimedia, 2019, 21, 3106-3121.	5.2	616
844	Learning a multi-level guided residual network for single image deraining. Signal Processing: Image Communication, 2019, 78, 206-215.	1.8	9
845	Image-to-Image Translation Using Identical-Pair Adversarial Networks. Applied Sciences (Switzerland), 2019, 9, 2668.	1.3	6
846	A Multi-Scale Wavelet 3D-CNN for Hyperspectral Image Super-Resolution. Remote Sensing, 2019, 11, 1557.	1.8	46
847	Satellite Image Super-Resolution via Multi-Scale Residual Deep Neural Network. Remote Sensing, 2019, 11, 1588.	1.8	75
848	Multi-Scale Gradient Image Super-Resolution for Preserving SIFT Key Points in Low-Resolution Images. Signal Processing: Image Communication, 2019, 78, 236-245.	1.8	10
849	Undersampled MR image reconstruction using an enhanced recursive residual network. Journal of Magnetic Resonance, 2019, 305, 232-246.	1.2	27
850	Gradient regularized convolutional neural networks for low-dose CT image enhancement. Physics in Medicine and Biology, 2019, 64, 165017.	1.6	13
851	MRI super-resolution reconstruction for MRI-guided adaptive radiotherapy using cascaded deep learning: In the presence of limited training data and unknown translation model. Medical Physics, 2019, 46, 4148-4164.	1.6	34
852	Evaluation of Performance of VDSR Super Resolution on Real and Synthetic Images. , 2019, , .		5
853	Convolutional Neural Network for Detection of Building Contours Using Multisource Spatial Data. Communications in Computer and Information Science, 2019, , 335-346.	0.4	0
854	Channel Splitting Network for Single MR Image Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 5649-5662.	6.0	101



#	ARTICLE	IF	CITATIONS
855	Parallel Region-Based Deep Residual Networks for Face Hallucination. IEEE Access, 2019, 7, 81266-81278.	2.6	9
856	FCN based preprocessing for exemplar-based face sketch synthesis. Neurocomputing, 2019, 365, 113-124.	3.5	15
857	FCSR-GAN: End-to-end Learning for Joint Face Completion and Super-resolution. , 2019, , .		8
858	Adaptive Aesthetic Photo Filter by Deep Learning. , 2019, , .		0
859	Local Smoothing Constraint in Convolutional Neural Network for Image Denoising. Lecture Notes in Computer Science, 2019, , 402-410.	1.0	0
860	The Novel Sensor Network Structure for Classification Processing Based on the Machine Learning Method of the ACGAN. Sensors, 2019, 19, 3145.	2.1	13
861	HYDRA: Hybrid deep magnetic resonance fingerprinting. Medical Physics, 2019, 46, 4951-4969.	1.6	23
862	Perceptual Loss Based Super-Resolution Reconstruction from Single Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2019, , 411-424.	1.0	0
863	Light Field Image Compression via CNN-Based EPI Super-Resolution and Decoder-Side Quality Enhancement. IEEE Access, 2019, 7, 135982-135998.	2.6	9
864	Single image rain removal using image decomposition and a dense network. IEEE/CAA Journal of Automatica Sinica, 2019, , 1-10.	8.5	11
865	Remote Sensing Image Superresolution Using Deep Residual Channel Attention. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9277-9289.	2.7	67
866	Flow Field Reduction Via Reconstructing Vector Data From 3-D Streamlines Using Deep Learning. IEEE Computer Graphics and Applications, 2019, 39, 54-67.	1.0	29
867	Deep-dose: a voxel dose estimation method using deep convolutional neural network for personalized internal dosimetry. Scientific Reports, 2019, 9, 10308.	1.6	61
868	A novel hybrid deep learning scheme for four-class motor imagery classification. Journal of Neural Engineering, 2019, 16, 066004.	1.8	116
869	Single image super-resolution using fast sensing block. , 2019, , .		0
870	A Comparable Study of CNN-Based Single Image Super-Resolution for Space-Based Imaging Sensors. Sensors, 2019, 19, 3234.	2.1	17
871	Video Super-Resolution Based on Multiple Networks Merging. IOP Conference Series: Earth and Environmental Science, 2019, 252, 042121.	0.2	0
872	An Improved Perceptual Hash Algorithm Based on U-Net for the Authentication of High-Resolution Remote Sensing Image. Applied Sciences (Switzerland), 2019, 9, 2972.	1.3	14

#	ARTICLE	IF	CITATIONS
873	Triple-Attention Mixed-Link Network for Single-Image Super-Resolution. Applied Sciences (Switzerland), 2019, 9, 2992.	1.3	5
874	Unsupervised Single-Image Super-Resolution with Multi-Gram Loss. Electronics (Switzerland), 2019, 8, 833.	1.8	6
875	Spatial Disaggregation of Historical Census Data&#x0D; Leveraging Multiple Sources of Ancillary Information. ISPRS International Journal of Geo-Information, 2019, 8, 327.	1.4	19
876	SASRT: Semantic-Aware Super-Resolution Transmission for Adaptive Video Streaming over Wireless Multimedia Sensor Networks. Sensors, 2019, 19, 3121.	2.1	7
877	Deep Learning Based Single Image Super-resolution: A Survey. International Journal of Automation and Computing, 2019, 16, 413-426.	4.5	53
878	UrbanFM. , 2019, , .		78
879	Image Super-Resolution Algorithm Based on Dual-Channel Convolutional Neural Networks. Applied Sciences (Switzerland), 2019, 9, 2316.	1.3	32
880	Image Super-Resolution Using Knowledge Distillation. Lecture Notes in Computer Science, 2019, , 527-541.	1.0	24
881	Unified Single-Image and Video Super-Resolution via Denoising Algorithms. IEEE Transactions on Image Processing, 2019, 28, 6063-6076.	6.0	34
882	Learning to Recognize Unmodified Lights with Invisible Features. , 2019, 3, 1-23.		2
883	Applying machine learning to 3D seismic image denoising and enhancement. Interpretation, 2019, 7, SE131-SE139.	0.5	41
884	Speedy and accurate image superâ€resolution via deeply recursive CNN with skip connection and network in network. IET Image Processing, 2019, 13, 1201-1209.	1.4	6
885	HyperPNN: Hyperspectral Pansharpening via Spectrally Predictive Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3092-3100.	2.3	67
886	Two-Step Enhanced Deep Learning Approach for Electromagnetic Inverse Scattering Problems. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2254-2258.	2.4	83
887	Motion Sensing Using Radar: Gesture Interaction and Beyond. IEEE Microwave Magazine, 2019, 20, 44-57.	0.7	41
888	Contourlet Transform based Multi-scale Fusion Network for Face Hallucination. Journal of Physics: Conference Series, 2019, 1335, 012008.	0.3	0
889	Multi-Noise and Multi-Channel Derived Prior Information for Grayscale Image Restoration. IEEE Access, 2019, 7, 150082-150092.	2.6	2
890	Checkerboard artifacts free convolutional neural networks. APSIPA Transactions on Signal and Information Processing, 2019, 8, .	2.6	26

#	ARTICLE	IF	CITATIONS
891	Super-Resolution Reconstruction of Cell Pseudo-Color Image Based on Raman Technology. <i>Sensors</i> , 2019, 19, 4076.	2.1	4
892	High-quality as-is 3D thermal modeling in MEP systems using a deep convolutional network. <i>Advanced Engineering Informatics</i> , 2019, 42, 100999.	4.0	6
893	Inpainting and Denoising Challenges. <i>The Springer Series on Challenges in Machine Learning</i> , 2019, , .	10.4	3
894	Deep Jpeg Image Deblocking Using Residual Maxout Units. , 2019, , .		1
895	Feature visualization of Raman spectrum analysis with deep convolutional neural network. <i>Analytica Chimica Acta</i> , 2019, 1087, 11-19.	2.6	52
896	Video Super-Resolution Based on 3D-CNNs with Consideration of Scene Change. , 2019, , .		28
897	Deep learning-based fusion of Landsat-8 and Sentinel-2 images for a harmonized surface reflectance product. <i>Remote Sensing of Environment</i> , 2019, 235, 111425.	4.6	164
898	Adaptive Graph Regularization Discriminant Nonnegative Matrix Factorization for Data Representation. <i>IEEE Access</i> , 2019, 7, 112756-112766.	2.6	8
899	Reference Based Face Super-Resolution. <i>IEEE Access</i> , 2019, 7, 129112-129126.	2.6	14
900	PHLPP2 as a novel metastatic and prognostic biomarker in non-small cell lung cancer patients. <i>Thoracic Cancer</i> , 2019, 10, 2124-2132.	0.8	8
901	Deep super-resolution based hashing for image retrieval. , 2019, , .		0
902	Applying single-image super-resolution for the enhancement of deep-water bathymetry. <i>Heliyon</i> , 2019, 5, e02570.	1.4	4
903	A Novel Two-stage Residual Learning Based Convolutional Neural Network for Image Super Resolution. <i>Fundamenta Informaticae</i> , 2019, 168, 335-351.	0.3	1
904	Human Brain and Artificial Intelligence. <i>Communications in Computer and Information Science</i> , 2019, , .	0.4	2
905	Dual residual attention module network for single image super resolution. <i>Neurocomputing</i> , 2019, 364, 269-279.	3.5	19
906	Multilevel and Multiscale Network for Single-Image Super-Resolution. <i>IEEE Signal Processing Letters</i> , 2019, 26, 1877-1881.	2.1	12
907	Multi-Frame Super Resolution with Deep Residual Learning on Flow Registered Non-Integer Pixel Images. , 2019, , .		2
908	PRED: A Parallel Network for Handling Multiple Degradations via Single Model in Single Image Super-Resolution. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
909	Residual Invertible Spatio-Temporal Network for Video Super-Resolution. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5981-5988.	3.6	41
910	Deep Self-Learning Network for Adaptive Pansharpening. Remote Sensing, 2019, 11, 2395.	1.8	10
911	SDANet: A stacked dense adaptive network for real-time and accurate super resolution. Neurocomputing, 2019, 370, 70-77.	3.5	1
912	End-To-End Convolutional Network for Video Rain Streaks Removal. , 2019, , .		1
913	Learned Multi-View Texture Super-Resolution. , 2019, , .		7
914	Non-Local Hierarchical Residual Network for Single Image Super-Resolution. , 2019, , .		0
915	A Super-Resolution Generative Adversarial Network with Simplified Gradient Penalty and Relativistic Discriminator. , 2019, , .		2
916	Learning Wear Patterns on Footwear Outsoles Using Convolutional Neural Networks. , 2019, , .		4
917	Deep convolutional neural networks for uncertainty propagation in random fields. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 1043-1054.	6.3	17
918	Deep learning-based accurate and rapid tracking of 3D positional information of microparticles using digital holographic microscopy. Experiments in Fluids, 2019, 60, 1.	1.1	9
919	MR image reconstruction using deep learning: evaluation of network structure and loss functions. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1516-1527.	1.1	68
920	A New Convolutional Neural Network for Motor Imagery Classification. , 2019, , .		7
921	A CNN-Based Pan-Sharpener Method for Integrating Panchromatic and Multispectral Images Using Landsat 8. Remote Sensing, 2019, 11, 2606.	1.8	14
922	Computer Vision Applications. Communications in Computer and Information Science, 2019, , .	0.4	0
923	Multimodal Learning toward Micro-Video Understanding. Synthesis Lectures on Image, Video, and Multimedia Processing, 2019, 9, 1-186.	0.9	25
924	Learning-Based Multi-Frame Video Quality Enhancement. , 2019, , .		14
925	Single Space Object Image Denoising and Super-Resolution Reconstructing Using Deep Convolutional Networks. Remote Sensing, 2019, 11, 1910.	1.8	12
926	Convolutional Sparse Coding Using Wavelets for Single Image Super-Resolution. IEEE Access, 2019, 7, 121350-121359.	2.6	5

#	ARTICLE	IF	CITATIONS
927	Haze Removal Using Aggregated Resolution Convolution Network. IEEE Access, 2019, 7, 123698-123709.	2.6	8
928	Image Scaling: How Hard Can it Be?. IEEE Access, 2019, 7, 129452-129465.	2.6	4
929	Local Excitation Network for Restoring a JPEG-Compressed Image. IEEE Access, 2019, 7, 138032-138042.	2.6	4
930	Online Damage Monitoring of SiC <sub>f</sub> -SiC <sub>m</sub> Composite Materials Using Acoustic Emission and Deep Learning. IEEE Access, 2019, 7, 140534-140541.	2.6	22
931	A Privacy-Preserving Filter for Oblique Face Images Based on Adaptive Hopping Gaussian Mixtures. IEEE Access, 2019, 7, 142623-142639.	2.6	5
932	Medical Image Super Resolution Using Improved Generative Adversarial Networks. IEEE Access, 2019, 7, 145030-145038.	2.6	43
933	SRPRID: Pedestrian Re-Identification Based on Super-Resolution Images. IEEE Access, 2019, 7, 152891-152899.	2.6	10
934	Residual Frame for Noisy Video Classification According to Perceptual Quality in Convolutional Neural Networks. , 2019, , .		1
935	Generative Adversarial Networks Capabilities for Super-Resolution Reconstruction of Weather Radar Echo Images. Atmosphere, 2019, 10, 555.	1.0	13
936	Spatial Spectral Fusion in Different Swath Widths by a Recurrent Expanding Residual Convolutional Neural Network. Remote Sensing, 2019, 11, 2203.	1.8	6
937	Bone Suppression of Chest Radiographs With Cascaded Convolutional Networks in Wavelet Domain. IEEE Access, 2019, 7, 8346-8357.	2.6	17
938	GAN Flexible Lmsr for Super-resolution. , 2019, , .		9
939	Single Image Super-Resolution via Cascaded Parallel Multisize Receptive Field. , 2019, , .		0
940	A Super-Resolution Convolutional-Neural-Network-Based Approach for Subpixel Mapping of Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4930-4939.	2.3	15
941	Joint-attention Discriminator for Accurate Super-resolution via Adversarial Training. , 2019, , .		8
942	Single Image Super-Resolution using Adaptive Upsampling Convolutional Network. , 2019, , .		2
943	GAN-Based Multi-level Mapping Network for Satellite Imagery Super-Resolution. , 2019, , .		5
944	The Multi-scale Fast Network For Image Super-resolution. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
945	Research on Hard-tipped Calligraphy Classification Based on Deep Learning Method. , 2019, , .		1
946	Robust Super-resolution Using Multiple Bases and 3D Filtering. , 2019, , .		0
947	Jointly Solving Deblurring and Super-Resolution Problems with Dual Supervised Network. , 2019, , .		7
948	A Comparative Study of CNN-Based Super-Resolution Methods in MRI Reconstruction. , 2019, , .		2
949	Improving Image Super-Resolution via Feature Re-Balancing Fusion. , 2019, , .		4
950	Mobile Robotic Painting of Texture. , 2019, , .		10
951	Hyperspectral Image Super-resolution Using Generative Adversarial Network and Residual Learning. , 2019, , .		14
952	Hierarchical Recursive Network for Single Image Super Resolution. , 2019, , .		3
953	Comparative Analysis of Image Fusion Methods in Marine Environment. , 2019, , .		4
954	Infotainment Enabled Smart Cars: A Joint Communication, Caching, and Computation Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 8408-8420.	3.9	52
955	Learning Shared and Cluster-Specific Dictionaries for Single Image Super-Resolution. IEEE Access, 2019, 7, 120041-120051.	2.6	1
956	Traffic Reduction in Video Call and Chat using DNN-Based Image Reconstruction. , 2019, , .		0
957	Artifact Suppressed Nonlinear Diffusion Filtering for Low-Dose CT Image Processing. IEEE Access, 2019, 7, 109856-109869.	2.6	5
958	Multi-domain modeling of missile power distribution system and development of simulation platform based on FMI standard. , 2019, , .		0
959	Compression artifacts reduction by improved generative adversarial networks. Eurasip Journal on Image and Video Processing, 2019, 2019, .	1.7	16
960	Context-Preserving Filter Reorganization for VDSR-Based Super-resolution. , 2019, , .		3
961	Deep Face Image Retrieval: a Comparative Study with Dictionary Learning. , 2019, , .		19
962	Multi-scale Dense Network for Single-image Super-resolution. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
963	SRSUBBANDNET: A New Deep Learning Scheme for Single Image Super Resolution Based on Subband Reconstruction. , 2019, , .		6
964	A Convolutional Neural Network Model for Superresolution Enhancement of UAV Images. , 2019, , .		1
965	Learning Image Profile Enhancement and Denoising Statistics Priors for Single-Image Super-Resolution. IEEE Transactions on Cybernetics, 2021, 51, 3535-3548.	6.2	12
966	Deep Objective Quality Assessment Driven Single Image Super-Resolution. IEEE Transactions on Multimedia, 2019, 21, 2957-2971.	5.2	39
967	UPDCNN: A New Scheme for Image Upsampling and Deblurring Using a Deep Convolutional Neural Network. , 2019, , .		3
968	Deep Progressive Convolutional Neural Network for Blind Super-Resolution With Multiple Degradations. , 2019, , .		3
969	Guided CycleGAN Via Semi-Dual Optimal Transport for Photo-Realistic Face Super-Resolution. , 2019, , .		8
970	Composite Convolutional Neural Network for Noise Deduction. IEEE Access, 2019, 7, 117814-117828.	2.6	11
971	Single image super-resolution with multi-level feature fusion recursive network. Neurocomputing, 2019, 370, 166-173.	3.5	27
972	Image Super-Resolution Using CNN Optimised By Self-Feature Loss. , 2019, , .		7
973	Image Super-Resolution Using Complex Dense Block on Generative Adversarial Networks. , 2019, , .		22
974	Multiscale brain MRI super-resolution using deep 3D convolutional networks. Computerized Medical Imaging and Graphics, 2019, 77, 101647.	3.5	96
975	Partial face recognition. , 2019, , .		4
976	DeepVolume: Brain Structure and Spatial Connection-Aware Network for Brain MRI Super-Resolution. IEEE Transactions on Cybernetics, 2021, 51, 3441-3454.	6.2	20
977	Spatio-Temporal Convolutional Neural Network for Frame Rate Up-Conversion. , 2019, , .		0
978	Real-time video super-resolution via motion convolution kernel estimation. Neurocomputing, 2019, 367, 236-245.	3.5	14
979	Super-Resolution Land Cover Mapping Based on the Convolutional Neural Network. Remote Sensing, 2019, 11, 1815.	1.8	35
980	Microwave Radiometer Data Superresolution Using Image Degradation and Residual Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8954-8967.	2.7	17

#	ARTICLE	IF	CITATIONS
981	Robust Pol-ISAR Target Recognition Based on ST-MC-DCNN. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9912-9927.	2.7	41
982	Multi-scale convolutional neural network for pixel-wise reconstruction of Van Gogh's drawings. Machine Vision and Applications, 2019, 30, 1229-1241.	1.7	12
983	Super-resolution of PROBA-V images using convolutional neural networks. Astrodynamic, 2019, 3, 387-402.	1.5	52
984	A Gamut-Extension Method Considering Color Information Restoration using Convolutional Neural Networks. , 2019, , .		0
985	Fast Super-Resolution in MRI Images Using Phase Stretch Transform, Anchored Point Regression and Zero-Data Learning. , 2019, , .		3
986	Residual Attribute Attention Network for Face Image Super-Resolution. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 9054-9061.	3.6	20
987	Densely convolutional attention network for image super-resolution. Neurocomputing, 2019, 368, 25-33.	3.5	12
988	Machine Learning Approaches for Face Identification Feed Forward Algorithms. SSRN Electronic Journal, 0, , .	0.4	6
989	Noise Robust Face Hallucination via Outlier Regularized Least Square and Neighbor Representation. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2019, 1, 252-263.	3.8	19
990	Object Recognition in Very Low Resolution Images Using Deep Collaborative Learning. IEEE Access, 2019, 7, 134071-134082.	2.6	26
991	DeepDPM: Dynamic Population Mapping via Deep Neural Network. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 1294-1301.	3.6	12
992	High-resolution limited-angle phase tomography of dense layered objects using deep neural networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19848-19856.	3.3	51
993	An improved PET image reconstruction method based on super-resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 946, 162677.	0.7	2
994	Survey of Deep-Learning Approaches for Remote Sensing Observation Enhancement. Sensors, 2019, 19, 3929.	2.1	92
995	Representation learning with extreme learning machines and empirical mode decomposition for wind speed forecasting methods. Artificial Intelligence, 2019, 277, 103176.	3.9	42
996	Deep Enhancement for 3D HDR Brain Image Compression. , 2019, , .		5
997	Deep neural network based method for joint image deblocking and super-resolution. IET Image Processing, 2019, 13, 1636-1647.	1.4	0
998	HRAN: Hybrid Residual Attention Network for Single Image Super-Resolution. IEEE Access, 2019, 7, 137020-137029.	2.6	47



#	ARTICLE	IF	CITATIONS
999	Residual Dense Network for Pan-Sharpener Satellite Data. IEEE Sensors Journal, 2019, 19, 12279-12285.	2.4	1
1000	Light Field Super-Resolution using a Low-Rank Prior and Deep Convolutional Neural Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	26
1001	Accurate depth estimation of skin surface using a light-field camera toward dynamic haptic palpation. Skin Research and Technology, 2019, 25, 469-481.	0.8	4
1002	Removing ring artifacts in CBCT images via generative adversarial networks with unidirectional relative total variation loss. Neural Computing and Applications, 2019, 31, 5147-5158.	3.2	14
1003	Separability and Compactness Network for Image Recognition and Superresolution. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3275-3286.	7.2	63
1004	Fast and Efficient Image Quality Enhancement via Desubpixel Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, , 243-259.	1.0	30
1005	Artifact correction in low-dose dental CT imaging using Wasserstein generative adversarial networks. Medical Physics, 2019, 46, 1686-1696.	1.6	60
1006	ESRGAN: Enhanced Super-Resolution Generative Adversarial Networks. Lecture Notes in Computer Science, 2019, , 63-79.	1.0	1,185
1007	Perception-Enhanced Image Super-Resolution via Relativistic Generative Adversarial Networks. Lecture Notes in Computer Science, 2019, , 98-113.	1.0	14
1008	Resolution-Enhancement for an Integral Imaging Microscopy Using Deep Learning. IEEE Photonics Journal, 2019, 11, 1-12.	1.0	15
1009	Deep Residual Attention Network for Spectral Image Super-Resolution. Lecture Notes in Computer Science, 2019, , 214-229.	1.0	18
1010	Applications of AI Beyond Image Interpretation. , 2019, , 129-143.		2
1011	SSR2: Sparse signal recovery for single-image super-resolution on faces with extreme low resolutions. Pattern Recognition, 2019, 90, 308-324.	5.1	32
1012	Digital Staining of High-Definition Fourier Transform Infrared (FT-IR) Images Using Deep Learning. Applied Spectroscopy, 2019, 73, 556-564.	1.2	24
1013	Parallel imaging in time-of-flight magnetic resonance angiography using deep multistream convolutional neural networks. Magnetic Resonance in Medicine, 2019, 81, 3840-3853.	1.9	20
1014	Joint Face Hallucination and Deblurring via Structure Generation and Detail Enhancement. International Journal of Computer Vision, 2019, 127, 785-800.	10.9	44
1015	Deep Convolutional Neural Networks Based Framework for Estimation of Stomata Density and Structure from Microscopic Images. Lecture Notes in Computer Science, 2019, , 412-423.	1.0	14
1016	Liver Extraction Using Residual Convolution Neural Networks From Low-Dose CT Images. IEEE Transactions on Biomedical Engineering, 2019, 66, 2641-2650.	2.5	14

#	ARTICLE	IF	CITATIONS
1017	A novel diagnostic information based framework for super-resolution of retinal fundus images. Computerized Medical Imaging and Graphics, 2019, 72, 22-33.	3.5	19
1018	Single Image Super-Resolution Using Dual-Branch Convolutional Neural Network. IEEE Access, 2019, 7, 15767-15778.	2.6	13
1019	Multiple Sequential Regularized Extreme Learning Machines for Single Image Super Resolution. IEEE Signal Processing Letters, 2019, 26, 440-444.	2.1	8
1020	Robust Single-Shot T <sub>2</sub> Mapping via Multiple Overlapping-Echo Acquisition and Deep Neural Network. IEEE Transactions on Medical Imaging, 2019, 38, 1801-1811.	5.4	23
1021	New architecture of deep recursive convolution networks for super-resolution. Knowledge-Based Systems, 2019, 178, 98-110.	4.0	23
1022	Back-Projection Lightweight Network for Accurate Image Super Resolution. Lecture Notes in Computer Science, 2019, , 135-151.	1.0	0
1023	Image Super-Resolution via Simplified Dense Network With Non-Degenerate Layers. IEEE Access, 2019, 7, 24775-24787.	2.6	9
1024	Wavelet-Integrated Deep Networks for Single Image Super-Resolution. Electronics (Switzerland), 2019, 8, 553.	1.8	12
1025	Single image rain removal via a deep decomposition-composition network. Computer Vision and Image Understanding, 2019, 186, 48-57.	3.0	54
1026	An automated glaucoma screening system using cup-to-disc ratio via Simple Linear Iterative Clustering superpixel approach. Biomedical Signal Processing and Control, 2019, 53, 101454.	3.5	42
1027	Thin cloud removal with residual symmetrical concatenation network. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 153, 137-150.	4.9	55
1028	Extraction of the cardiac waveform from simultaneous multislice fMRI data using slice sorted averaging and a deep learning reconstruction filter. NeuroImage, 2019, 198, 303-316.	2.1	23
1029	Deep Generative Adversarial Networks for Thin-Section Infant MR Image Reconstruction. IEEE Access, 2019, 7, 68290-68304.	2.6	17
1030	Multi-Scale Residual Hierarchical Dense Networks for Single Image Super-Resolution. IEEE Access, 2019, 7, 60572-60583.	2.6	19
1031	Measuring River Wetted Width From Remotely Sensed Imagery at the Subpixel Scale With a Deep Convolutional Neural Network. Water Resources Research, 2019, 55, 5631-5649.	1.7	51
1032	A Unified Method for Digital Super-Resolution and Restoration in Infrared Microscopy Imaging. IEEE Access, 2019, 7, 75648-75657.	2.6	6
1033	Automatic Windowing for MRI With Convolutional Neural Network. IEEE Access, 2019, 7, 68594-68606.	2.6	4
1034	Super-Resolution of Single Remote Sensing Image Based on Residual Dense Backprojection Networks. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7918-7933.	2.7	70

#	ARTICLE	IF	CITATIONS
1035	Deep convolutional neural networks for mammography: advances, challenges and applications. BMC Bioinformatics, 2019, 20, 281.	1.2	137
1036	Subsurface velocity inversion from deep learning-based data assimilation. Journal of Applied Geophysics, 2019, 167, 172-179.	0.9	27
1037	ITM-CNN: Learning the Inverse Tone Mapping from Low Dynamic Range Video to High Dynamic Range Displays Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, , 395-409.	1.0	6
1038	Applying Deep Learning Approach to the Far-Field Subwavelength Imaging Based on Near-Field Resonant Metalens at Microwave Frequencies. IEEE Access, 2019, 7, 63801-63808.	2.6	23
1039	JCS-Net: Joint Classification and Super-Resolution Network for Small-Scale Pedestrian Detection in Surveillance Images. IEEE Transactions on Information Forensics and Security, 2019, 14, 3322-3331.	4.5	66
1040	Multiscale modeling of shale samples based on low- and high-resolution images. Marine and Petroleum Geology, 2019, 109, 9-21.	1.5	41
1041	Parallel imaging and convolutional neural network combined fast MR image reconstruction: Applications in low-latency accelerated real-time imaging. Medical Physics, 2019, 46, 3399-3413.	1.6	25
1042	Super-Resolution Reconstruction Using Deep Learning: Should We Go Deeper?. Communications in Computer and Information Science, 2019, , 204-216.	0.4	0
1043	Single Image Super-Resolution Using Lightweight CNN with Maxout Units. Lecture Notes in Computer Science, 2019, , 471-487.	1.0	1
1044	A Multi-purpose Convolutional Neural Network for Simultaneous Super-Resolution and High Dynamic Range Image Reconstruction. Lecture Notes in Computer Science, 2019, , 379-394.	1.0	4
1045	Image super resolution by dilated dense progressive network. Image and Vision Computing, 2019, 88, 9-18.	2.7	42
1046	Detail-preserving image super-resolution via recursively dilated residual network. Neurocomputing, 2019, 358, 285-293.	3.5	15
1047	Single image super-resolution via multi-scale residual channel attention network. Neurocomputing, 2019, 358, 424-436.	3.5	19
1048	Hyperspectral Image Super-Resolution by Deep Spatial-Spectral Exploitation. Remote Sensing, 2019, 11, 1229.	1.8	19
1049	Dense Multi-focus Fusion Net: A Deep Unsupervised Convolutional Network for Multi-focus Image Fusion. Lecture Notes in Computer Science, 2019, , 153-163.	1.0	4
1050	Multi-Task cGAN for Simultaneous Spaceborne DSM Refinement and Roof-Type Classification. Remote Sensing, 2019, 11, 1262.	1.8	13
1051	Unsupervised Transformation Network Based on GANs for Target-Domain Oriented Multi-domain Image Translation. Lecture Notes in Computer Science, 2019, , 398-413.	1.0	0
1052	Across-scale process similarity based interpolation for image super-resolution. Applied Soft Computing Journal, 2019, 81, 105508.	4.1	2

#	ARTICLE	IF	CITATIONS
1053	Complementary coded aperture set for compressive high-resolution imaging. Neurocomputing, 2019, 358, 177-187.	3.5	5
1054	Improved Low-Bitrate HEVC Video Coding Using Deep Learning Based Super-Resolution and Adaptive Block Patching. IEEE Transactions on Multimedia, 2019, 21, 3010-3023.	5.2	15
1055	Multi-View Image Denoising Using Convolutional Neural Network. Sensors, 2019, 19, 2597.	2.1	8
1056	SISRSet: Single image super-resolution subjective evaluation test and objective quality assessment. Neurocomputing, 2019, 360, 37-51.	3.5	10
1057	Super Resolution of Car Plate Images Using Generative Adversarial Networks. , 2019, , .		5
1058	A CNN-based Flow Correction Method for Fast Preview. Computer Graphics Forum, 2019, 38, 431-440.	1.8	6
1059	Super-Resolution Convolutional Neural Networks Using Modified and Bilateral ReLU. , 2019, , .		6
1060	Deep learning for waveform estimation and imaging in passive radar. IET Radar, Sonar and Navigation, 2019, 13, 915-926.	0.9	9
1061	Multi-Level Wavelet Convolutional Neural Networks. IEEE Access, 2019, 7, 74973-74985.	2.6	139
1062	Robust Face Image Super-Resolution via Joint Learning of Subdivided Contextual Model. IEEE Transactions on Image Processing, 2019, 28, 5897-5909.	6.0	19
1063	DDLPS: Detail-Based Deep Laplacian Pansharpening for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8011-8025.	2.7	44
1064	Fast and Error-Bounded Space-Variant Bilateral Filtering. Journal of Computer Science and Technology, 2019, 34, 550-568.	0.9	6
1065	An edge preserving high-order PDE for multiframe image super-resolution. Journal of the Franklin Institute, 2019, 356, 5834-5857.	1.9	28
1066	Super-resolution reconstruction of turbulent flows with machine learning. Journal of Fluid Mechanics, 2019, 870, 106-120.	1.4	356
1067	Gradient Image Super-resolution for Low-resolution Image Recognition. , 2019, , .		8
1068	Optimizing Deep CNN Architectures for Face Liveness Detection. Entropy, 2019, 21, 423.	1.1	25
1069	Digital TV and Multimedia Communication. Communications in Computer and Information Science, 2019, , .	0.4	0
1070	Adaptively Tuning a Convolutional Neural Network by Gate Process for Image Denoising. IEEE Access, 2019, 7, 63447-63456.	2.6	22

#	ARTICLE	IF	CITATIONS
1072	Speeding Up the Line-Scan Raman Imaging of Living Cells by Deep Convolutional Neural Network. Analytical Chemistry, 2019, 91, 7070-7077.	3.2	34
1073	Enhanced Motion-Compensated Video Coding With Deep Virtual Reference Frame Generation. IEEE Transactions on Image Processing, 2019, 28, 4832-4844.	6.0	56
1074	Single image super-resolution incorporating example-based gradient profile estimation and weighted adaptive p-norm. Neurocomputing, 2019, 355, 105-120.	3.5	8
1075	Blind Denoising of Mixed Gaussian-impulse Noise by Single CNN. , 2019, , .		18
1076	Hierarchical residual learning for image denoising. Signal Processing: Image Communication, 2019, 76, 243-251.	1.8	17
1077	Denoising of 3D magnetic resonance images using a residual encoder-decoder Wasserstein generative adversarial network. Medical Image Analysis, 2019, 55, 165-180.	7.0	99
1078	Projection-domain scatter correction for cone beam computed tomography using a residual convolutional neural network. Medical Physics, 2019, 46, 3142-3155.	1.6	55
1079	Densely connected AutoEncoders for image compression. , 2019, , .		11
1080	Face hallucination from low quality images using definition-scalable inference. Pattern Recognition, 2019, 94, 110-121.	5.1	13
1081	Pyramid Fully Convolutional Network for Hyperspectral and Multispectral Image Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1549-1558.	2.3	66
1082	CNN-Based Target Recognition and Identification for Infrared Imaging in Defense Systems. Sensors, 2019, 19, 2040.	2.1	33
1083	Super-resolution reconstruction of neonatal brain magnetic resonance images via residual structured sparse representation. Medical Image Analysis, 2019, 55, 76-87.	7.0	18
1084	Fast and efficient contrast-enhanced super-resolution without real-world data using concatenated recursive compressor-decompressor network. IET Image Processing, 2019, 13, 817-824.	1.4	2
1085	Augmentation of CBCT Reconstructed From Under-Sampled Projections Using Deep Learning. IEEE Transactions on Medical Imaging, 2019, 38, 2705-2715.	5.4	52
1086	Remote Sensing Image Sharpening by Integrating Multispectral Image Super-Resolution and Convolutional Sparse Representation Fusion. IEEE Access, 2019, 7, 46562-46574.	2.6	21
1087	Spatial Resolution Enhancement of Satellite Microwave Radiometer Data with Deep Residual Convolutional Neural Network. Remote Sensing, 2019, 11, 771.	1.8	18
1088	A Novel Multi-Scale Adaptive Convolutional Network for Single Image Super-Resolution. IEEE Access, 2019, 7, 45191-45200.	2.6	5
1089	A Very Deep Spatial Transformer Towards Robust Single Image Super-Resolution. IEEE Access, 2019, 7, 45618-45631.	2.6	9

#	ARTICLE	IF	CITATIONS
1090	Investigating 3D holoscopic visual content upsampling using super-resolution for cultural heritage digitization. Signal Processing: Image Communication, 2019, 75, 188-198.	1.8	11
1091	End-to-end single image enhancement based on a dual network cascade model. Journal of Visual Communication and Image Representation, 2019, 61, 284-295.	1.7	11
1092	Notice of Violation of IEEE Publication Principles: Single-Image Super-Resolution Algorithm Based on Structural Self-Similarity and Deformation Block Features. IEEE Access, 2019, 7, 58791-58801.	2.6	79
1093	Residual dense network for intensity-guided depth map enhancement. Information Sciences, 2019, 495, 52-64.	4.0	25
1094	Single image super resolution via neighbor reconstruction. Pattern Recognition Letters, 2019, 125, 157-165.	2.6	9
1095	Solving Inverse Problems in Imaging via Deep Dictionary Learning. IEEE Access, 2019, 7, 37039-37049.	2.6	8
1096	Magnetic Resonance Fingerprinting Using a Residual Convolutional Neural Network. , 2019, , .		8
1097	Adaptive Transform Domain Image Super-Resolution via Orthogonally Regularized Deep Networks. IEEE Transactions on Image Processing, 2019, 28, 4685-4700.	6.0	24
1098	Single Image Super Resolution Model Using Learnable Weight Factor in Residual Skip Connection. IEEE Access, 2019, 7, 58676-58684.	2.6	2
1099	Contrast enhancement of Progressive Visual Secret Sharing (PVSS) scheme for gray-scale and color images using super-resolution. Signal Processing, 2019, 162, 253-267.	2.1	17
1100	Image super-resolution based on multi-grained cascade forests. International Journal of Wavelets, Multiresolution and Information Processing, 2019, 17, 1950019.	0.9	1
1101	Enhanced two-phase residual network for single image super-resolution. Journal of Visual Communication and Image Representation, 2019, 61, 188-197.	1.7	3
1102	Depth Map Super-Resolution via Multilevel Recursive Guidance and Progressive Supervision. IEEE Access, 2019, 7, 57616-57622.	2.6	3
1103	Maximizing Nonlocal Self-Similarity Prior for Single Image Super-Resolution. Mathematical Problems in Engineering, 2019, 2019, 1-14.	0.6	1
1104	Single image super-resolution reconstruction using multiple dictionaries and improved iterative back-projection. Optoelectronics Letters, 2019, 15, 156-160.	0.4	5
1105	Convolutional Neural Network Based Models for Improving Super-Resolution Imaging. IEEE Access, 2019, 7, 43042-43051.	2.6	32
1106	Dejavu. , 2019, , .		21
1107	Low-resolution face recognition and feature selection based on multidimensional scaling joint L <sub>2,1</sub> norm regularisation. IET Biometrics, 2019, 8, 198-205.	1.6	2

#	ARTICLE	IF	CITATIONS
1108	Super-Resolution for Practical Automated Plant Disease Diagnosis System. , 2019, , .		8
1109	Domain Transfer Learning for Hyperspectral Image Super-Resolution. Remote Sensing, 2019, 11, 694.	1.8	13
1110	Image interpolation using convolutional neural networks with deep recursive residual learning. Multimedia Tools and Applications, 2019, 78, 22813-22831.	2.6	8
1111	Are Recent SISR Techniques Suitable for Industrial Applications at Low Magnification?. IEEE Transactions on Industrial Electronics, 2019, 66, 9828-9836.	5.2	6
1112	Advanced Super-Resolution Using Lossless Pooling Convolutional Networks. , 2019, , .		3
1113	Learning an Efficient Convolution Neural Network for Pansharpening. Algorithms, 2019, 12, 16.	1.2	7
1114	End-to-End Image Super-Resolution via Deep and Shallow Convolutional Networks. IEEE Access, 2019, 7, 31959-31970.	2.6	68
1115	A Convolutional Neural Network-Based Deep Learning Methodology for Recognition of Partial Discharge Patterns from High-Voltage Cables. IEEE Transactions on Power Delivery, 2019, 34, 1460-1469.	2.9	116
1116	Pest diagnosis system based on deep learning using collective intelligence. International Journal of Electrical Engineering and Education, 2019, , 002072091983305.	0.4	4
1117	Deep Learning for Marine Species Recognition. Smart Innovation, Systems and Technologies, 2019, , 129-145.	0.5	16
1118	IEGAN: Multi-Purpose Perceptual Quality Image Enhancement Using Generative Adversarial Network. , 2019, , .		4
1119	Enhanced Non-Local Total Variation Model and Multi-Directional Feature Prediction Prior for Single Image Super Resolution. IEEE Transactions on Image Processing, 2019, 28, 3778-3793.	6.0	25
1120	Diverse adversarial network for image super-resolution. Signal Processing: Image Communication, 2019, 74, 191-200.	1.8	19
1121	Remote Sensing Single-Image Superresolution Based on a Deep Compendium Model. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1432-1436.	1.4	45
1122	Automatic Target Recognition for Synthetic Aperture Radar Images Based on Super-Resolution Generative Adversarial Network and Deep Convolutional Neural Network. Remote Sensing, 2019, 11, 135.	1.8	26
1123	A review of face recognition methods using deep learning network. Journal of Information and Optimization Sciences, 2019, 40, 547-558.	0.2	20
1124	Super-resolution land cover mapping by deep learning. Remote Sensing Letters, 2019, 10, 598-606.	0.6	45
1125	The Devil is in the Decoder: Classification, Regression and GANs. International Journal of Computer Vision, 2019, 127, 1694-1706.	10.9	43



#	ARTICLE	IF	CITATIONS
1126	Fast deep parallel residual network for accurate super resolution image processing. Expert Systems With Applications, 2019, 128, 157-168.	4.4	11
1127	Pan-sharpening via a gradient-based deep network prior. Signal Processing: Image Communication, 2019, 74, 322-331.	1.8	12
1128	Deep feature learning versus shallow feature learning systems for joint use of airborne thermal hyperspectral and visible remote sensing data. International Journal of Remote Sensing, 2019, 40, 7048-7070.	1.3	8
1129	Deep Differential Convolutional Network for Single Image Super-Resolution. IEEE Access, 2019, 7, 37555-37564.	2.6	22
1130	Reconstructing pre-fire vegetation condition in the wildland urban interface (WUI) using artificial neural network. Journal of Environmental Management, 2019, 238, 224-234.	3.8	19
1131	Data-adaptive low-rank modeling and external gradient prior for single image super-resolution. Signal Processing, 2019, 161, 36-49.	2.1	18
1132	Fractional-order difference curvature-driven fractional anisotropic diffusion equation for image super-resolution. International Journal of Modeling, Simulation, and Scientific Computing, 2019, 10, 1941012.	0.9	6
1133	Deep-learning inversion: A next-generation seismic velocity model building method. Geophysics, 2019, 84, R583-R599.	1.4	315
1134	A Two-Stage U-Net Model for 3D Multi-class Segmentation on Full-Resolution Cardiac Data. Lecture Notes in Computer Science, 2019, , 191-199.	1.0	37
1135	An Efficient Residual Learning Neural Network for Hyperspectral Image Superresolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1240-1253.	2.3	21
1136	Hyperspectral Image Super-Resolution Using Deep Feature Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6055-6067.	2.7	63
1137	SRLibrary: Comparing different loss functions for super-resolution over various convolutional architectures. Journal of Visual Communication and Image Representation, 2019, 61, 178-187.	1.7	49
1138	Fast and accurate single image super-resolution via an energy-aware improved deep residual network. Signal Processing, 2019, 162, 115-125.	2.1	18
1139	Deep iterative reconstruction estimation (DIRE): approximate iterative reconstruction estimation for low dose CT imaging. Physics in Medicine and Biology, 2019, 64, 135007.	1.6	33
1140	Face super-resolution via bilayer contextual representation. Signal Processing: Image Communication, 2019, 75, 147-157.	1.8	10
1141	Intra-host Ebola viral adaption during human infection. Biosafety and Health, 2019, 1, 14-24.	1.2	9
1142	Pansharpening via Detail Injection Based Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1188-1204.	2.3	131
1143	PIRM Challenge on Perceptual Image Enhancement on Smartphones: Report. Lecture Notes in Computer Science, 2019, , 315-333.	1.0	41



#	ARTICLE	IF	CITATIONS
1144	Multi-view face hallucination using SVD and a mapping model. Information Sciences, 2019, 488, 181-189.	4.0	23
1145	Edge-Enhanced GAN for Remote Sensing Image Superresolution. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5799-5812.	2.7	324
1146	Multiview video quality enhancement without depth information. Signal Processing: Image Communication, 2019, 75, 22-31.	1.8	6
1147	FFT multichannel interpolation and application to image super-resolution. Signal Processing, 2019, 162, 21-34.	2.1	14
1148	Quality-Aware Unpaired Image-to-Image Translation. IEEE Transactions on Multimedia, 2019, 21, 2664-2674.	5.2	42
1149	Multipath feedforward network for single image super-resolution. Multimedia Tools and Applications, 2019, 78, 19621-19640.	2.6	4
1150	A generative image fusion approach based on supervised deep convolution network driven by weighted gradient flow. Image and Vision Computing, 2019, 86, 1-16.	2.7	21
1151	Unidirectional variation and deep CNN denoiser priors for simultaneously destriping and denoising optical remote sensing images. International Journal of Remote Sensing, 2019, 40, 5737-5748.	1.3	63
1152	Single image super resolution based on learning features to constrain back projection. , 2019, , .		2
1153	The Role of Deep Learning in Improving Healthcare. , 2019, , 75-116.		7
1154	A novel in-loop filtering mechanism of HEVC based on 3D sub-bands and CNN processing. Signal, Image and Video Processing, 2019, 13, 1045-1053.	1.7	0
1155	Image restoration from patch-based compressed sensing measurement. Neurocomputing, 2019, 340, 145-157.	3.5	8
1156	CARN: Convolutional Anchored Regression Network for Fast and Accurate Single Image Super-Resolution. Lecture Notes in Computer Science, 2019, , 166-181.	1.0	18
1157	The roles of supervised machine learning in systems neuroscience. Progress in Neurobiology, 2019, 175, 126-137.	2.8	88
1158	Bi-GANs-ST for Perceptual Image Super-Resolution. Lecture Notes in Computer Science, 2019, , 20-34.	1.0	7
1159	PIRM2018 Challenge on Spectral Image Super-Resolution: Methods and Results. Lecture Notes in Computer Science, 2019, , 356-371.	1.0	5
1160	Multi-scale Recursive and Perception-distortion Controllable Image Super-resolution. Lecture Notes in Computer Science, 2019, , 3-19.	1.0	5
1161	AI Benchmark: Running Deep Neural Networks on Android Smartphones. Lecture Notes in Computer Science, 2019, , 288-314.	1.0	115

#	ARTICLE	IF	CITATIONS
1162	Automatic Classification of Low-Resolution Chromosomal Images. Lecture Notes in Computer Science, 2019, , 315-325.	1.0	9
1163	Mapping annual forest cover by fusing PALSAR/PALSAR-2 and MODIS NDVI during 2007â€“2016. Remote Sensing of Environment, 2019, 224, 74-91.	4.6	52
1164	Super-resolving the Ising model with convolutional neural networks. Physical Review B, 2019, 99, .	1.1	37
1165	Fully Symmetric Convolutional Network for Effective Image Denoising. Applied Sciences (Switzerland), 2019, 9, 778.	1.3	10
1166	Perception-Preserving Convolutional Networks for Image Enhancement on Smartphones. Lecture Notes in Computer Science, 2019, , 197-213.	1.0	13
1167	Super-resolution of PET image based on dictionary learning and random forests. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 320-329.	0.7	16
1168	Applications of Deep Learning to Ocean Data Inference and Subgrid Parameterization. Journal of Advances in Modeling Earth Systems, 2019, 11, 376-399.	1.3	201
1169	Video Frame Interpolation Using Deep Convolutional Neural Network. Lecture Notes in Computational Vision and Biomechanics, 2019, , 847-855.	0.5	1
1170	Analyzing Perception-Distortion Tradeoff Using Enhanced Perceptual Super-Resolution Network. Lecture Notes in Computer Science, 2019, , 114-131.	1.0	20
1171	Scale-Recurrent Multi-residual Dense Network for Image Super-Resolution. Lecture Notes in Computer Science, 2019, , 132-149.	1.0	5
1172	Deep Learning-Based Channel Estimation. IEEE Communications Letters, 2019, 23, 652-655.	2.5	348
1173	Visual Quality Assessment for Super-Resolved Images: Database and Method. IEEE Transactions on Image Processing, 2019, 28, 3528-3541.	6.0	46
1174	Face Hallucination via Coarse-to-Fine Recursive Kernel Regression Structure. IEEE Transactions on Multimedia, 2019, 21, 2223-2236.	5.2	20
1175	Wavelet Domain Generative Adversarial Network for Multi-scale Face Hallucination. International Journal of Computer Vision, 2019, 127, 763-784.	10.9	55
1176	Low-light image enhancement using Gaussian Process for features retrieval. Signal Processing: Image Communication, 2019, 74, 175-190.	1.8	34
1177	Person identification from partial gait cycle using fully convolutional neural networks. Neurocomputing, 2019, 338, 116-125.	3.5	41
1178	Enhancement of Perivascular Spaces Using Densely Connected Deep Convolutional Neural Network. IEEE Access, 2019, 7, 18382-18391.	2.6	22
1179	Machine learning facilitated business intelligence (Part II). Industrial Management and Data Systems, 2019, 120, 128-163.	2.2	17

#	ARTICLE	IF	CITATIONS
1180	Multidimensional Signal Interpolation Based on Factorization and Dimension Reduction of Decision Rules. Optical Memory and Neural Networks (Information Optics), 2019, 28, 332-342.	0.4	0
1181	Machine learning facilitated business intelligence (Part I). Industrial Management and Data Systems, 2019, 120, 164-195.	2.2	36
1182	Frame-Consistent Recurrent Video Deraining With Dual-Level Flow. , 2019, , .		70
1183	MultiBoot Vsr: Multi-Stage Multi-Reference Bootstrapping for Video Super-Resolution. , 2019, , .		4
1184	Remote sensing image super-resolution using deep“shallow cascaded convolutional neural networks. Sensor Review, 2019, 39, 629-635.	1.0	12
1185	Encoder-Decoder Residual Network for Real Super-Resolution. , 2019, , .		23
1186	Image Recovery in the Infrared Domain via Path-Augmented Compressive Sampling Matching Pursuit. , 2019, , .		1
1187	Orientation-Aware Deep Neural Network for Real Image Super-Resolution. , 2019, , .		16
1188	Super-Resolution Reconstruction Method for Single Space Object Image based on Optimized Convolution Neural Network. , 2019, , .		3
1189	CeMNet: Self-Supervised Learning for Accurate Continuous Ego-Motion Estimation. , 2019, , .		6
1190	Hyperspectral Data to Relative Lidar Depth: An Inverse Problem for Remote Sensing. , 2019, , .		1
1191	Optimization-Based Data Generation for Photo Enhancement. , 2019, , .		3
1192	Wide-Context Semantic Image Extrapolation. , 2019, , .		80
1193	Towards Real Scene Super-Resolution With Raw Images. , 2019, , .		71
1194	Exemplar Guided Face Image Super-Resolution Without Facial Landmarks. , 2019, , .		39
1195	Suppressing Model Overfitting for Image Super-Resolution Networks. , 2019, , .		28
1196	Efficient Super Resolution Using Binarized Neural Network. , 2019, , .		40
1197	Enhanced head-mounted eye tracking data analysis using super-resolution. IS&T International Symposium on Electronic Imaging, 2019, 2019, 647-1-647-8.	0.3	0

#	ARTICLE	IF	CITATIONS
1198	Recursive Image Dehazing via Perceptually Optimized Generative Adversarial Network (POGAN). , 2019, , .		6
1199	Watermark Image Reconstruction Based on Deep Learning. , 2019, , .		1
1200	An Image Segmentation Method for the blind sidewalks recognition by using the convolutional neural network U-net. , 2019, , .		2
1201	An implementation of the seismic resolution enhancing network based on GAN. , 2019, , .		11
1202	Discarding jagged artefacts in image upscaling with total variation regularisation. IET Image Processing, 2019, 13, 2495-2506.	1.4	1
1203	Learning seismic image enhancement from pairs of 3D partial and full image volumes. , 2019, , .		2
1204	Fractal Residual Network and Solutions for Real Super-Resolution. , 2019, , .		18
1205	On the use of deep learning for computational imaging. Optica, 2019, 6, 921.	4.8	495
1206	Space Target Super-resolution Based on Low-complex Convolutional Networks. , 2019, , .		1
1207	Partition Tree Guided Progressive Rethinking Network for in-Loop Filtering of HEVC. , 2019, , .		14
1208	Performance analysis of Satellite Image Super Resolution using Deep Learning Techniques. , 2019, , .		1
1209	A Coarse-to-Fine Multi-stream Hybrid Deraining Network for Single Image Deraining. , 2019, , .		24
1210	Multi-Level and Multi-Scale Spatial and Spectral Fusion CNN for Hyperspectral Image Super-Resolution. , 2019, , .		39
1211	The Vid3oC and IntVID Datasets for Video Super Resolution and Quality Mapping. , 2019, , .		10
1212	Image Compression Algorithms Based on Super-Resolution Reconstruction Technology. , 2019, , .		3
1213	Predicting Missing Image in Remote Sensing Time Series Using Spatial-Temporal-Spectral Data. , 2019, , .		0
1214	GRAM: Gradient Rescaling Attention Model for Data Uncertainty Estimation in Single Image Super Resolution. , 2019, , .		4
1215	Video Super-Resolution with Compensation in Feature Extraction. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
1216	Deep Hyperspectral Prior: Single-Image Denoising, Inpainting, Super-Resolution. , 2019, , .		107
1217	Un-Paired Real World Super-Resolution with Degradation Consistency. , 2019, , .		0
1218	CNN-based synthesis of realistic high-resolution LiDAR data. , 2019, , .		8
1219	Dual Discriminator Generative Adversarial Network for Single Image Super-Resolution. , 2019, , .		0
1220	Structural Network Embedding using Multi-modal Deep Auto-encoders for Predicting Drug-drug Interactions. , 2019, , .		21
1221	Research on Face Super Resolution Reconstruction Based on DBGAN. , 2019, , .		3
1222	Super-Resolution reconstruction of Bone Micro-Structure Micro-CT Image based on Auto-Encoder Structure. , 2019, , .		1
1223	Deep Learning for Remote Sensing Image Super-Resolution. , 2019, , .		5
1224	Hyperspectral Image Super-Resolution Based on Multi-Scale Wavelet 3D Convolutional Neural Network. , 2019, , .		4
1225	Recovering Extremely Degraded Faces by Joint Super-Resolution and Facial Composite. , 2019, , .		3
1226	Spatial Resolution Matching of Microwave Radiometer Data with Convolutional Neural Network. Remote Sensing, 2019, 11, 2432.	1.8	12
1227	GSR-MAR: Global Super-Resolution for Person Multi-Attribute Recognition. , 2019, , .		3
1228	Color Image Compression with Transform Domain Down-Sampling and Deep Convolutional Reconstruction. , 2019, , .		1
1229	Extreme Low Resolution Action Recognition with Spatial-Temporal Multi-Head Self-Attention and Knowledge Distillation. , 2019, , .		16
1230	Dual Learning-based Video Coding with Inception Dense Blocks. , 2019, , .		5
1231	Deep Learning-Based Imaging using Single-Lens and Multi-Aperture Diffractive Optical Systems. , 2019, , .		10
1232	Transferred Multi-Perception Attention Networks for Remote Sensing Image Super-Resolution. Remote Sensing, 2019, 11, 2857.	1.8	23
1233	Single Image Super-Resolution Based on Self-Attention. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
1234	Vertical resolution enhancement of seismic data with convolutional U-net. , 2019, , .		7
1235	Reconstruction of Single-Frame Solar Speckle Image with Cycle Consistency Loss and Perceptual Loss. , 2019, , .		1
1236	High Resolution Image Reconstruction via Dictionary Learning in Sparse Environment. , 2019, , .		0
1237	Accurate single image super-resolution using cascading dense connections. Electronics Letters, 2019, 55, 739-742.	0.5	7
1238	Artifacts reduction for very low bitrate image compression with generative adversarial networks. , 2019, , .		1
1239	A Neural Network based Electromagnetic Simulator. , 2019, , .		1
1240	A Medical Video Coding Scheme with Preserved Diagnostic Quality. , 2019, , .		0
1241	Survey on GAN-based face hallucination with its model development. IET Image Processing, 2019, 13, 2662-2672.	1.4	8
1242	Image Super-Resolution based on Multi-Convolution Neural Network. , 2019, , .		0
1243	The Effects of Super-Resolution on Object Detection Performance in Satellite Imagery. , 2019, , .		108
1244	Convolutional Neural Network Based Bi-prediction Utilizing Spatial and Temporal Information in Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	5.6	5
1245	CARAFE: Content-Aware ReAssembly of FEatures. , 2019, , .		228
1246	Extraction of Degradation Parameters for Transparency of an Image Restoration Network. , 2019, , .		0
1247	Reconstruction of seismic field data with convolutional U-Net considering the optimal training input data. , 2019, , .		18
1248	Learning Deep Image Priors for Blind Image Denoising. , 2019, , .		4
1249	Frequency Separation for Real-World Super-Resolution. , 2019, , .		124
1250	Multitemporal Hyperspectral Image Super-Resolution through 3D Generative Adversarial Network. , 2019, , .		16
1251	Video Satellite Imagery Super-Resolution via a Deep Residual Network. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
1252	Progressive Image Deraining Networks: A Better and Simpler Baseline. , 2019, , .		470
1253	Super-Resolution Diffusion Tensor Imaging using SRCNN: A Feasibility Study. , 2019, 2019, 2830-2834.		20
1254	A Small Object Detection Solution by Using Super- Resolution Recovery. , 2019, , .		8
1255	FS-Net: Medical Image Denoising via Local Receptive Field Smoothing Network. , 2019, , .		0
1256	On Training Deep Networks for Satellite Image Super-Resolution. , 2019, , .		8
1257	Multispectral and Hyperspectral Image Fusion by MS/HS Fusion Net. , 2019, , .		172
1258	Deep Image Demosaicing for Submicron Image Sensors. Journal of Imaging Science and Technology, 2019, 63, 060410-1-060410-12.	0.3	11
1259	Color Face Hallucination Using Neighbor Locality Representation and Inter-Channel Correlation. , 2019, , .		1
1260	Region Adaptive Mode Selection Algorithms for Image Super-Resolution. , 2019, , .		0
1261	Adaptive deep residual network for single image super-resolution. Computational Visual Media, 2019, 5, 391-401.	10.8	9
1262	Depth-Controllable Very Deep Super-Resolution Network. , 2019, , .		8
1263	Hardware Design of a Context-Preserving Filter-Reorganized CNN for Super-Resolution. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2019, 9, 612-622.	2.7	4
1264	TanDEM-X Forest Mapping Using Convolutional Neural Networks. Remote Sensing, 2019, 11, 2980.	1.8	29
1265	Research on advanced image analysis and its applications. , 2019, , .		0
1266	Unsupervised Remote Sensing Image Super-Resolution Using Cycle CNN. , 2019, , .		19
1267	Expression Conditional Gan for Facial Expression-to-Expression Translation. , 2019, , .		14
1268	Does Deep Super-Resolution Enhance UAV Detection?. , 2019, , .		32
1269	Dual 1D-2D Spatial-Spectral CNN for Hyperspectral Image Super-Resolution. , 2019, , .		18

#	ARTICLE	IF	CITATIONS
1270	A Two-Stage Spatiotemporal Fusion Method for Remote Sensing Images. Photogrammetric Engineering and Remote Sensing, 2019, 85, 907-914.	0.3	7
1271	Improving spatial resolution of LANDSAT spectral bands from a single RGB image using artificial neural network. , 2019, , .		1
1272	Single Image Super-Resolution Reconstruction of Enhanced Loss Function with Multi-GPU Training. , 2019, , .		3
1273	Robust Face Super-Resolution via Patch Network of Global Context Prior. , 2019, , .		2
1274	Kernel Modeling Super-Resolution on Real Low-Resolution Images. , 2019, , .		87
1275	Controlling Neural Networks via Energy Dissipation. , 2019, , .		5
1276	Recover and Identify: A Generative Dual Model for Cross-Resolution Person Re-Identification. , 2019, , .		45
1277	Two-Stream Action Recognition-Oriented Video Super-Resolution. , 2019, , .		29
1278	Unsupervised Learning for Real-World Super-Resolution. , 2019, , .		129
1279	Image Super-Resolution via Attention Based Back Projection Networks. , 2019, , .		44
1280	AI Benchmark: All About Deep Learning on Smartphones in 2019. , 2019, , .		134
1281	Dual Reconstruction with Densely Connected Residual Network for Single Image Super-Resolution. , 2019, , .		9
1282	Super Resolution Reconstruction Technique in Passive Microwave Images of Arctic Sea Ice. , 2019, , .		0
1283	AIM 2019 Challenge on Video Extreme Super-Resolution: Methods and Results. , 2019, , .		7
1284	Deep SR-ITM: Joint Learning of Super-Resolution and Inverse Tone-Mapping for 4K UHD HDR Applications. , 2019, , .		69
1285	HighEr-Resolution Network for Image Demosaicing and Enhancing. , 2019, , .		19
1286	Efficient Video Super-Resolution through Recurrent Latent Space Propagation. , 2019, , .		86
1287	Progressive Fusion Video Super-Resolution Network via Exploiting Non-Local Spatio-Temporal Correlations. , 2019, , .		144



#	ARTICLE	IF	CITATIONS
1288	Real Image Denoising With Feature Attention. , 2019, , .		330
1289	Fast Image Restoration With Multi-Bin Trainable Linear Units. , 2019, , .		13
1290	Efficient Single Image Super-Resolution via Hybrid Residual Feature Learning with Compact Back-Projection Network. , 2019, , .		20
1291	Disentangling Pose from Appearance in Monochrome Hand Images. , 2019, , .		1
1292	Multi-Scale Dynamic Feature Encoding Network for Image DemoirÃ©ing. , 2019, , .		21
1293	DIV8K: DIVERse 8K Resolution Image Dataset. , 2019, , .		40
1294	AIM 2019 Challenge on Real-World Image Super-Resolution: Methods and Results. , 2019, , .		73
1295	Deep Camera: A Fully Convolutional Neural Network for Image Signal Processing. , 2019, , .		26
1296	A Study on a Combination of Sparse Coding and Dictionary Learning Algorithms for Sparse Super-Resolution. , 2019, , .		0
1297	XD-STOD: Cross-Domain Superresolution for Tiny Object Detection. , 2019, , .		1
1298	Video Super-resolution Reconstruction Using Deep and Shallow Convolutional Neural Networks. , 2019, , .		0
1299	Blind Super-Resolution With Iterative Kernel Correction. , 2019, , .		277
1300	Semi-Coupled Convolutional Sparse Learning for Image Super-Resolution. Remote Sensing, 2019, 11, 2593.	1.8	3
1301	Self Supervised Super-Resolution PET Using A Generative Adversarial Network. , 2019, , .		3
1302	An OpenMP-Based Algorithm for Multi-Nodes Computational of Super-Resolution. Journal of Physics: Conference Series, 2019, 1395, 012002.	0.3	0
1303	SSCNET: Spectral-Spatial Consistency Optimization of CNN for Pansharpening. , 2019, , .		4
1304	Neural Adaptive Transport Framework for Internet-scale Interactive Media Streaming Services. , 2019, , .		1
1305	Adversarial Iris Super Resolution. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
1306	Improving Super Resolution Methods Via Incremental Residual Learning. , 2019, , .		1
1307	Low-Complexity Scalable Encoder Based on Local Adaptation of the Spatial Resolution. , 2019, , .		0
1308	DeFusionNET: Defocus Blur Detection via Recurrently Fusing and Refining Multi-Scale Deep Features. , 2019, , .		45
1309	Zoom to Learn, Learn to Zoom. , 2019, , .		141
1310	Feedback Network for Image Super-Resolution. , 2019, , .		498
1311	Recurrent Back-Projection Network for Video Super-Resolution. , 2019, , .		298
1312	Deep Blind Video Decaptioning by Temporal Aggregation and Recurrence. , 2019, , .		20
1313	A Dataset and Evaluation Framework for Deep Learning Based Video Stabilization Systems. , 2019, , .		4
1314	Residual Component Estimating CNN for Image Super-Resolution. , 2019, , .		13
1315	IM-Net for High Resolution Video Frame Interpolation. , 2019, , .		54
1316	Super Resolution Reconstruction of Images Based on Interpolation and Full Convolutional Neural Network and Application in Medical Fields. IEEE Access, 2019, 7, 186470-186479.	2.6	18
1317	Patch-Based Progressive 3D Point Set Upsampling. , 2019, , .		142
1318	Research on extraction and classification of EEG features for multi-class motor imagery. , 2019, , .		7
1319	A GAN to Fight Video-related Traffic Flooding: Super-resolution. , 2019, , .		0
1320	A Super-Resolution Image Reconstruction using Triangulation Interpolation in Feature Extraction for automatic sign language recognition. , 2019, , .		6
1321	Multiple Parameters Determination for Image and Video Reconstruction Using Genetic Algorithm and Generalized Stein's Unbiased Risk Estimation. IEEE Access, 2019, 7, 177745-177760.	2.6	0
1322	Selective Super-Resolution for Scene Text Images. , 2019, , .		3
1323	Improving Text Image Resolution using a Deep Generative Adversarial Network for Optical Character Recognition. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
1324	Second-Order Attention Network for Single Image Super-Resolution. , 2019, , .		985
1325	An Image Super-resolution Reconstruction Method by Using of Deep Learning. , 2019, , .		1
1326	License plate super-resolution reconstruction based on improved ESPCN network. , 2019, , .		3
1327	Cascaded Detail-Preserving Networks for Super-Resolution of Document Images. , 2019, , .		3
1328	Short Circuit Location in Transformer Winding Using Deep Learning of Its Frequency Responses. , 2019, , .		15
1329	Image Super-Resolution Reconstruction Algorithm Based on FSRCNN and Residual Network. , 2019, , .		4
1330	Deep Spatial-Spectral Information Exploitation for Rapid Hyperspectral Image Super-Resolution. , 2019, , .		1
1331	Super-Resolution via Wavelet Transform and Advanced Learning Techniques. , 2019, , .		2
1332	Advanced CNN Based Motion Compensation Fractional Interpolation. , 2019, , .		10
1333	3D Appearance Super-Resolution With Deep Learning. , 2019, , .		22
1334	Fast Spatio-Temporal Residual Network for Video Super-Resolution. , 2019, , .		88
1335	Effect of Visual Context Information for Super Resolution Problems. , 2019, , .		0
1336	Blind text images deblurring based on a generative adversarial network. IET Image Processing, 2019, 13, 2850-2858.	1.4	2
1337	Residual Networks for Light Field Image Super-Resolution. , 2019, , .		129
1338	Image Super-resolution Reconstruction Based on Bionic Intelligence. , 2019, , .		0
1339	A Novel Blurring based Method for Video Compression. , 2019, , .		0
1340	Milestones and New Frontiers in Deep Learning. , 2019, , .		3
1341	Technology for the Visual Inspection of Aircraft Surfaces Using Programmable Unmanned Aerial Vehicles. Journal of Computer and Systems Sciences International, 2019, 58, 960-968.	0.2	6

#	ARTICLE	IF	CITATIONS
1342	Going Deeper with Densely Connected Convolutional Neural Networks for Multispectral Pansharpening. Remote Sensing, 2019, 11, 2608.	1.8	27
1343	Hyperspectral Pansharpening Based on Spectral Constrained Adversarial Autoencoder. Remote Sensing, 2019, 11, 2691.	1.8	10
1344	Evidence Based Feature Selection and Collaborative Representation Towards Learning Based PSF Estimation for Motion Deblurring. , 2019, , .		1
1345	High-resolution Three-dimensional Microwave Imaging Using a Generative Adversarial Network. , 2019, , .		3
1346	SROBB: Targeted Perceptual Loss for Single Image Super-Resolution. , 2019, , .		87
1347	DenseNet With Deep Residual Channel-Attention Blocks for Single Image Super Resolution. , 2019, , .		12
1348	Multi-Scale Deep Neural Networks for Real Image Super-Resolution. , 2019, , .		18
1349	Deep Learning in MR Image Processing. Investigative Magnetic Resonance Imaging, 2019, 23, 81.	0.2	36
1350	Improving Accuracy of Contactless Respiratory Rate Estimation by Enhancing Thermal Sequences with Deep Neural Networks. Applied Sciences (Switzerland), 2019, 9, 4405.	1.3	19
1351	Single-Image Super-Resolution via Multiple Matrix-Valued Kernel Regression. , 2019, , .		0
1352	Tunnel Pedestrian Detection Based on Super Resolution and Convolutional Neural Network. , 2019, , .		4
1353	A Network-Driven Prior Induced Bregman Model for Parallel MR Imaging*. , 2019, 2019, 4483-4486.		0
1354	Evaluating Accuracy of Respiratory Rate Estimation from Super Resolved Thermal Imagery. , 2019, 2019, 2744-2747.		8
1355	Upsampling Inertial Sensor Data from Wearable Smart Devices using Neural Networks. , 2019, , .		2
1356	Effective Use of Low-level Features for Image Super-Resolution. , 2019, , .		0
1357	Adaptively Tuning a Convolutional Neural Network by Gating Process for Image Denoising. , 2019, , .		1
1358	Fast Super-Resolution of 20 m Sentinel-2 Bands Using Convolutional Neural Networks. Remote Sensing, 2019, 11, 2635.	1.8	42
1359	Code2vect: An efficient heterogenous data classifier and nonlinear regression technique. Comptes Rendus - Mecanique, 2019, 347, 754-761.	2.1	17

#	ARTICLE	IF	CITATIONS
1360	Learning Efficient Stereo Matching Network With Depth Discontinuity Aware Super-Resolution. IEEE Access, 2019, 7, 159712-159723.	2.6	7
1361	Infrared Image Super Resolution Using GAN With Infrared Image Prior. , 2019, , .		14
1362	Research on Recognition Method of Electrical Components Based on YOLO V3. IEEE Access, 2019, 7, 157818-157829.	2.6	76
1363	High-Efficiency Progressive Transmission and Automatic Recognition of Wildlife Monitoring Images With WISNs. IEEE Access, 2019, 7, 161412-161423.	2.6	6
1364	Cyber Threat Detection Based on Artificial Neural Networks Using Event Profiles. IEEE Access, 2019, 7, 165607-165626.	2.6	75
1365	Training Deep Neural Networks with Adversarially Augmented Features for Small-scale Training Datasets. , 2019, , .		4
1366	Kindling the Darkness. , 2019, , .		567
1367	Revisiting an Iterative Speckle Filtering Technique. , 2019, , .		3
1368	Image Compression at Very Low Bitrate Based on Deep Learned Super-Resolution. , 2019, , .		3
1369	Parallax-Based Spatial and Channel Attention for Stereo Image Super-Resolution. IEEE Access, 2019, 7, 183672-183679.	2.6	9
1370	A Convolutional Neural Network with Two-Channel Input for Image Super-Resolution. , 2019, , .		1
1371	RTSRGAN: Real-Time Super-Resolution Generative Adversarial Networks. , 2019, , .		7
1372	Two-Phase Hair Image Synthesis by Self-Enhancing Generative Model. Computer Graphics Forum, 2019, 38, 403-412.	1.8	7
1373	A Survey on the New Generation of Deep Learning in Image Processing. IEEE Access, 2019, 7, 172231-172263.	2.6	129
1374	Super-Resolution for Improving EEG Spatial Resolution using Deep Convolutional Neural Network-Feasibility Study. Sensors, 2019, 19, 5317.	2.1	22
1375	A super-resolution enhancement of UAV images based on a convolutional neural network for mobile devices. Personal and Ubiquitous Computing, 2022, 26, 1193-1204.	1.9	5
1376	Generating EEG signals of an RSVP Experiment by a Class Conditioned Wasserstein Generative Adversarial Network. , 2019, , .		13
1377	SDCA: a novel stack deep convolutional autoencoder - an application on retinal image denoising. IET Image Processing, 2019, 13, 2778-2789.	1.4	12

#	ARTICLE	IF	CITATIONS
1378	Edge focused super-resolution of thermal images. , 2019, , .		6
1379	Spatiotemporal Fusion of Satellite Images via Very Deep Convolutional Networks. Remote Sensing, 2019, 11, 2701.	1.8	15
1380	A Dual-Link Residual Convolution Neural Network for Image Super-Resolution. , 2019, , .		0
1381	Projectionâ€ transformation method with considering energy conservation. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 1805-1814.	0.8	0
1382	Super-Resolution OCT Using Sparse Representations and Heavy-Tailed Models. , 2019, 2019, 5585-5588.		1
1383	Super Resolution Using Dual Path Connections. , 2019, , .		5
1384	Predicting Compressive Strength of Cement-Stabilized Rammed Earth Based on SEM Images Using Computer Vision and Deep Learning. Applied Sciences (Switzerland), 2019, 9, 5131.	1.3	27
1385	Quality Image Enhancement from Low Resolution Camera using Convolutional Neural Network. , 2019, , .		3
1386	Location of Disk Space Variations in Transformer Winding using Convolutional Neural Networks. , 2019, , .		11
1387	BsNet: A Deep Learning-Based Beam Selection Method for mmWave Communications. , 2019, , .		27
1388	Super-Resolution-Based Traffic Prohibitory Sign Recognition. , 2019, , .		2
1389	Deep-learning-based motion-correction algorithm in optical resolution photoacoustic microscopy. Visual Computing for Industry, Biomedicine, and Art, 2019, 2, 12.	2.2	28
1390	Super-Resolution of Sentinel-2 Images Based on Deep Channel-Attention Residual Network. , 2019, , .		2
1391	Residual Dense Information Distillation Network for Single Image Super-Resolution. , 2019, , .		1
1392	Remote Photoplethysmography Enhancement with Machine Learning Methods. , 2019, , .		3
1393	Learning Differential Transport Operators for the Joint Super-Resolution of Sea Surface Tracers and Prediction of Subgrid-Scale Features. , 2019, , .		0
1394	Hybrid Image Enhancement With Progressive Laplacian Enhancing Unit. , 2019, , .		16
1395	Advances on CNN-Based Super-Resolution of Sentinel-2 Images. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
1396	Deep Single Image Enhancer. , 2019, , .		1
1397	Deep Residual Network of Spectral and Spatial Fusion for Hyperspectral Image Super-Resolution. , 2019, , .		14
1398	Real-time Video Image Super-Resolution Network for Mobile Terminals. , 2019, , .		0
1399	Research on Image Super-resolution Based on Improved Convolutional Neural Network. , 2019, , .		0
1400	Image Interpolation Based on Adaptive Neuro-Fuzzy Inference System. , 2019, , .		0
1401	Joint Framework for Image Fusion and Super-Resolution via Multicomponent Analysis and Residual Compensation. IEEE Access, 2019, 7, 174092-174107.	2.6	5
1402	Machine Learning Algorithms for Short-Term Load Forecast in Residential Buildings Using Smart Meters, Sensors and Big Data Solutions. IEEE Access, 2019, 7, 177874-177889.	2.6	61
1403	Dual Recursive Network for Fast Image Deraining. , 2019, , .		11
1404	SF-CNN: A Fast Compression Artifacts Removal via Spatial-To-Frequency Convolutional Neural Networks. , 2019, , .		13
1405	Deep Super-Resolution Network for Single Image Super-Resolution with Realistic Degradations. , 2019, , .		8
1406	Gradient-Guided Convolutional Neural Network for MRI Image Super-Resolution. Applied Sciences (Switzerland), 2019, 9, 4874.	1.3	12
1407	Simultaneous Super-Resolution and Segmentation for Remote Sensing Images. , 2019, , .		19
1408	Source Reconstruction Method based on Machine Learning Algorithms. , 2019, , .		3
1409	Visual Result Prediction in Electromagnetic Simulations Using Machine Learning. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2264-2266.	2.4	7
1410	How Effective Is Super-Resolution to Improve Dense Labelling of Coarse Resolution Imagery?. , 2019, , .		6
1411	A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5800-5808.	5.9	57
1412	Lightweight Image Super-Resolution with Information Multi-distillation Network. , 2019, , .		445
1413	State-of-the-art analysis of image denoising methods using convolutional neural networks. IET Image Processing, 2019, 13, 2367-2380.	1.4	48

#	ARTICLE	IF	CITATIONS
1414	Super-Resolution Based on Back-Projection of Interpolated Image. , 2019, , .		0
1415	Sar Tomography Based on Deep Learning. , 2019, , .		10
1416	A Semi-Supervised Wasserstein Generative Adversarial Network for Classifying Driving Fatigue from EEG signals. , 2019, , .		9
1417	Image improvement in digital tomosynthesis (DTS) using a deep convolutional neural network. Journal of Instrumentation, 2019, 14, C12004-C12004.	0.5	3
1418	A Pixel Level Scaled Fusion Model to Provide High Spatial-Spectral Resolution for Satellite Images Using LSTM Networks. , 2019, , .		7
1419	LoGSRN: Deep Super Resolution Network for Digital Elevation Model. , 2019, , .		3
1420	Single Image Rain Removal via Cascading Attention Aggregation Network on Challenging Weather Conditions. IEEE Access, 2019, 7, 178848-178861.	2.6	5
1421	Spatial Transformer Generative Adversarial Network for Robust Image Super-Resolution. IEEE Access, 2019, 7, 182993-183009.	2.6	19
1422	Image and Video Super Resolution using Recurrent Generative Adversarial Network. , 2019, , .		11
1423	Integrating the Continuous Wavelet Transform and a Convolutional Neural Network to Identify Vineyard Using Time Series Satellite Images. Remote Sensing, 2019, 11, 2641.	1.8	13
1424	Face Image Super-Resolution Using Differential Evolutionary Algorithm. Advances in Intelligent Systems and Computing, 2019, , 635-644.	0.5	8
1425	D3R-Net: Dynamic Routing Residue Recurrent Network for Video Rain Removal. IEEE Transactions on Image Processing, 2019, 28, 699-712.	6.0	73
1426	Scan-specific robust artificial neural networks for k-space interpolation (RAKI) reconstruction: Database-free deep learning for fast imaging. Magnetic Resonance in Medicine, 2019, 81, 439-453.	1.9	253
1427	Enhanced Radar Imaging Using a Complex-Valued Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 35-39.	1.4	133
1428	Iterative PET Image Reconstruction Using Convolutional Neural Network Representation. IEEE Transactions on Medical Imaging, 2019, 38, 675-685.	5.4	188
1429	Single image super-resolution under multi-frame method. Signal, Image and Video Processing, 2019, 13, 331-339.	1.7	5
1430	Deep Neural Representation Guided Face Sketch Synthesis. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 3216-3230.	2.9	21
1431	ALPNet: Image-to-Image Single Image Dehazing With Atmospheric Illumination Prior. IEEE Transactions on Image Processing, 2019, 28, 381-393.	6.0	103



#	ARTICLE	IF	CITATIONS
1432	Convolutional Neural Networks with Template-Based Data Augmentation for Functional Lung Image Quantification. <i>Academic Radiology</i> , 2019, 26, 412-423.	1.3	51
1433	Learning Discriminative Aggregation Network for Video-Based Face Recognition and Person Re-identification. <i>International Journal of Computer Vision</i> , 2019, 127, 701-718.	10.9	41
1434	Multi-Memory Convolutional Neural Network for Video Super-Resolution. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 2530-2544.	6.0	135
1435	Hierarchical Features Driven Residual Learning for Depth Map Super-Resolution. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 2545-2557.	6.0	124
1436	Deep Learning Methods and Applications. <i>SpringerBriefs in Computer Science</i> , 2019, , 31-42.	0.2	58
1437	A novel adaptive image zooming method based on nonlocal Cahn-Hilliard equation. <i>Knowledge-Based Systems</i> , 2019, 166, 118-131.	4.0	3
1438	A Survey of Super-Resolution in Iris Biometrics With Evaluation of Dictionary-Learning. <i>IEEE Access</i> , 2019, 7, 6519-6544.	2.6	19
1439	Joint Image Filtering with Deep Convolutional Networks. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019, 41, 1909-1923.	9.7	91
1440	Image super-resolution via deterministic-stochastic synthesis and local statistical rectification. <i>ACM Transactions on Graphics</i> , 2019, 37, 1-14.	4.9	9
1441	Face hallucination through differential evolution parameter map learning with facial structure prior. <i>Information Sciences</i> , 2019, 481, 174-188.	4.0	6
1442	Convolutional Neural Networks to Enhance Coded Speech. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2019, 27, 663-678.	4.0	44
1443	Computer-assisted frameworks for classification of liver, breast and blood neoplasias via neural networks: A survey based on medical images. <i>Neurocomputing</i> , 2019, 335, 274-298.	3.5	51
1444	PhaseNet: A Deep Convolutional Neural Network for Two-Dimensional Phase Unwrapping. <i>IEEE Signal Processing Letters</i> , 2019, 26, 54-58.	2.1	169
1445	PET Image Denoising Using a Deep Neural Network Through Fine Tuning. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 153-161.	2.7	148
1446	Context-Aware Semantic Inpainting. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 4398-4411.	6.2	21
1447	Improvement of image quality at CT and MRI using deep learning. <i>Japanese Journal of Radiology</i> , 2019, 37, 73-80.	1.0	134
1448	General Resolution Enhancement Method in Atomic Force Microscopy Using Deep Learning. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800137.	1.3	23
1449	3G structure for image caption generation. <i>Neurocomputing</i> , 2019, 330, 17-28.	3.5	27

#	ARTICLE	IF	CITATIONS
1450	Learning depth super-resolution by using multi-scale convolutional neural network. Journal of Intelligent and Fuzzy Systems, 2019, 36, 1773-1783.	0.8	15
1451	Image Reconstruction Based on Convolutional Neural Network for Electrical Resistance Tomography. IEEE Sensors Journal, 2019, 19, 196-204.	2.4	171
1452	Image super-resolution using progressive generative adversarial networks for medical image analysis. Computerized Medical Imaging and Graphics, 2019, 71, 30-39.	3.5	177
1453	High-quality spectral-spatial reconstruction using saliency detection and deep feature enhancement. Pattern Recognition, 2019, 88, 139-152.	5.1	36
1454	Efficient Confidence-Based Hierarchical Stereo Disparity Upsampling for Noisy Inputs. IEEE Access, 2019, 7, 4067-4082.	2.6	3
1455	Dominant-Current Deep Learning Scheme for Electrical Impedance Tomography. IEEE Transactions on Biomedical Engineering, 2019, 66, 2546-2555.	2.5	109
1456	Scale-Free Single Image Deraining Via Visibility-Enhanced Recurrent Wavelet Learning. IEEE Transactions on Image Processing, 2019, 28, 2948-2961.	6.0	79
1457	Deep learning-based digital in-line holographic microscopy for high resolution with extended field of view. Optics and Laser Technology, 2019, 113, 77-86.	2.2	25
1458	Separable-spectral convolution and inception network for hyperspectral image super-resolution. International Journal of Machine Learning and Cybernetics, 2019, 10, 2593-2607.	2.3	19
1459	Infrared super-resolution imaging using multi-scale saliency and deep wavelet residuals. Infrared Physics and Technology, 2019, 97, 177-186.	1.3	13
1460	Deep Reconstruction of Least Significant Bits for Bit-Depth Expansion. IEEE Transactions on Image Processing, 2019, 28, 2847-2859.	6.0	25
1461	Single image super-resolution based on adaptive convolutional sparse coding and convolutional neural networks. Journal of Visual Communication and Image Representation, 2019, 58, 651-661.	1.7	12
1462	Dictionaries of deep features for land-use scene classification of very high spatial resolution images. Pattern Recognition, 2019, 89, 32-44.	5.1	33
1463	Image super-resolution via feature-augmented random forest. Signal Processing: Image Communication, 2019, 72, 25-34.	1.8	10
1464	Simultaneous color-depth super-resolution with conditional generative adversarial networks. Pattern Recognition, 2019, 88, 356-369.	5.1	58
1465	A Pipeline Neural Network for Low-Light Image Enhancement. IEEE Access, 2019, 7, 13737-13744.	2.6	37
1466	On the Diversity of Conditional Image Synthesis With Semantic Layouts. IEEE Transactions on Image Processing, 2019, 28, 2898-2907.	6.0	7
1467	Variational probabilistic generative framework for single image super-resolution. Signal Processing, 2019, 156, 92-105.	2.1	10

#	ARTICLE	IF	CITATIONS
1468	DCSR: Dilated Convolutions for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 1625-1635.	6.0	121
1469	A deep learning method for image super-resolution based on geometric similarity. Signal Processing: Image Communication, 2019, 70, 210-219.	1.8	18
1470	Video Super-Resolution Using Non-Simultaneous Fully Recurrent Convolutional Network. IEEE Transactions on Image Processing, 2019, 28, 1342-1355.	6.0	26
1471	Low-Resolution Face Recognition with Single Sample per Person via Domain Adaptation. International Journal of Pattern Recognition and Artificial Intelligence, 2019, 33, 1956005.	0.7	3
1472	Effective Content-Aware Chroma Reconstruction Method for Screen Content Images. IEEE Transactions on Image Processing, 2019, 28, 1108-1117.	6.0	7
1473	An improved method for single image super-resolution based on deep learning. Signal, Image and Video Processing, 2019, 13, 557-565.	1.7	19
1474	Video Compression Based on Spatio-Temporal Resolution Adaptation. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 275-280.	5.6	48
1475	Online Data Organizer: Micro-Video Categorization by Structure-Guided Multimodal Dictionary Learning. IEEE Transactions on Image Processing, 2019, 28, 1235-1247.	6.0	84
1476	Depth Super-Resolution via Joint Color-Guided Internal and External Regularizations. IEEE Transactions on Image Processing, 2019, 28, 1636-1645.	6.0	49
1477	Learning Converged Propagations With Deep Prior Ensemble for Image Enhancement. IEEE Transactions on Image Processing, 2019, 28, 1528-1543.	6.0	53
1478	Fast Single-Image Super-Resolution via Deep Network With Component Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3473-3486.	5.6	30
1479	Machine-Learning-Based PML for the FDTD Method. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 192-196.	2.4	51
1480	DeepNIS: Deep Neural Network for Nonlinear Electromagnetic Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2019, 67, 1819-1825.	3.1	258
1482	Deep-Learning-Based Multi-Modal Fusion for Fast MR Reconstruction. IEEE Transactions on Biomedical Engineering, 2019, 66, 2105-2114.	2.5	75
1483	3D Auto-Context-Based Locality Adaptive Multi-Modality GANs for PET Synthesis. IEEE Transactions on Medical Imaging, 2019, 38, 1328-1339.	5.4	137
1484	Removal of rain video based on temporal intensity and chromatic constraint of raindrops. Evolutionary Intelligence, 2019, 12, 349-355.	2.3	1
1485	Convolutional Neural Network-Based Block Up-Sampling for HEVC. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3701-3715.	5.6	46
1486	Gradient-aware blind face inpainting for deep face verification. Neurocomputing, 2019, 331, 301-311.	3.5	8

#	ARTICLE	IF	CITATIONS
1487	Technical and clinical overview of deep learning in radiology. Japanese Journal of Radiology, 2019, 37, 15-33.	1.0	66
1488	Convolutional network architectures for super-resolution/sub-pixel mapping of drone-derived images. Pattern Recognition, 2019, 88, 431-446.	5.1	22
1489	An improved image mixed noise removal algorithm based on super-resolution algorithm and CNN. Neural Computing and Applications, 2019, 31, 325-336.	3.2	9
1490	Two-stage local details restoration framework for face hallucination. Machine Vision and Applications, 2019, 30, 153-162.	1.7	2
1491	Single image super-resolution using multi-scale deep encoderâ€“decoder with phase congruency edge map guidance. Information Sciences, 2019, 473, 44-58.	4.0	55
1492	Recognition of Chinese food using convolutional neural network. Multimedia Tools and Applications, 2019, 78, 11155-11172.	2.6	21
1493	A Fast Medical Image Super Resolution Method Based on Deep Learning Network. IEEE Access, 2019, 7, 12319-12327.	2.6	62
1494	Restoration of Full Data from Sparse Data in Low-Dose Chest Digital Tomosynthesis Using Deep Convolutional Neural Networks. Journal of Digital Imaging, 2019, 32, 489-498.	1.6	11
1495	Deep-Learning Schemes for Full-Wave Nonlinear Inverse Scattering Problems. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1849-1860.	2.7	306
1496	Self-Learning Super-Resolution Using Convolutional Principal Component Analysis and Random Matching. IEEE Transactions on Multimedia, 2019, 21, 1108-1121.	5.2	8
1497	Deep Semantic-Preserving Ordinal Hashing for Cross-Modal Similarity Search. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1429-1440.	7.2	53
1498	Convolutional low-resolution fine-grained classification. Pattern Recognition Letters, 2019, 119, 166-171.	2.6	50
1499	Adversarial image detection in deep neural networks. Multimedia Tools and Applications, 2019, 78, 2815-2835.	2.6	27
1500	An optimization framework of video advertising: using deep learning algorithm based on global image information. Cluster Computing, 2019, 22, 8939-8951.	3.5	8
1501	Sparse representation based image super-resolution on the KNN based dictionaries. Optics and Laser Technology, 2019, 110, 135-144.	2.2	10
1502	Image Segmentation Using Computational Intelligence Techniques: Review. Archives of Computational Methods in Engineering, 2019, 26, 533-596.	6.0	92
1503	Super-resolution compressed sensing imaging algorithm based on sub-pixel shift. Cluster Computing, 2019, 22, 8407-8413.	3.5	4
1504	Learning deep transmission network for efficient image dehazing. Multimedia Tools and Applications, 2019, 78, 213-236.	2.6	8

#	ARTICLE	IF	CITATIONS
1505	Incorporating rotational invariance in convolutional neural network architecture. <i>Pattern Analysis and Applications</i> , 2019, 22, 935-948.	3.1	5
1506	Longitudinally Guided Super-Resolution of Neonatal Brain Magnetic Resonance Images. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 662-674.	6.2	28
1507	Deep Learning-Based Super-Resolution Applied to Dental Computed Tomography. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 120-128.	2.7	73
1508	Surface fatigue crack identification in steel box girder of bridges by a deep fusion convolutional neural network based on consumer-grade camera images. <i>Structural Health Monitoring</i> , 2019, 18, 653-674.	4.3	184
1509	Deep convolution network for surveillance records super-resolution. <i>Multimedia Tools and Applications</i> , 2019, 78, 23815-23829.	2.6	32
1510	VLSI implementation of anisotropic probabilistic neural network for real-time image scaling. <i>Journal of Real-Time Image Processing</i> , 2019, 16, 71-80.	2.2	4
1511	Acceleration techniques and evaluation on multi-core CPU, GPU and FPGA for image processing and super-resolution. <i>Journal of Real-Time Image Processing</i> , 2019, 16, 1207-1234.	2.2	23
1512	Single-image super-resolution via joint statistic models-guided deep auto-encoder network. <i>Neural Computing and Applications</i> , 2020, 32, 4885-4896.	3.2	7
1513	Context-Patch Face Hallucination Based on Thresholding Locality-Constrained Representation and Reproducing Learning. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 324-337.	6.2	40
1514	An Energy-Efficient FPGA-Based Deconvolutional Neural Networks Accelerator for Single Image Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 281-295.	5.6	68
1515	Accelerate neural style transfer with super-resolution. <i>Multimedia Tools and Applications</i> , 2020, 79, 4347-4364.	2.6	5
1516	Remote sensing images super-resolution with deep convolution networks. <i>Multimedia Tools and Applications</i> , 2020, 79, 8985-9001.	2.6	25
1517	Face image super-resolution with pose via nuclear norm regularized structural orthogonal Procrustes regression. <i>Neural Computing and Applications</i> , 2020, 32, 4361-4371.	3.2	10
1518	A Novel CNN-Based Poisson Solver for Fluid Simulation. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2020, 26, 1454-1465.	2.9	28
1519	Joint learning of visual and spatial features for edit propagation from a single image. <i>Visual Computer</i> , 2020, 36, 469-482.	2.5	50
1520	Tree-structured multilayer neural network for classification. <i>Neural Computing and Applications</i> , 2020, 32, 5859-5873.	3.2	1
1521	A generative adversarial network for image denoising. <i>Multimedia Tools and Applications</i> , 2020, 79, 16517-16529.	2.6	20
1522	Deep learning model for real-time image compression in Internet of Underwater Things (IoUT). <i>Journal of Real-Time Image Processing</i> , 2020, 17, 2097-2111.	2.2	119

#	ARTICLE	IF	CITATIONS
1523	Joint blur kernel estimation and CNN for blind image restoration. Neurocomputing, 2020, 396, 324-345.	3.5	25
1524	Multi-Scale Frequency Reconstruction for Guided Depth Map Super-Resolution via Deep Residual Network. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 297-306.	5.6	46
1525	Joint Rain Detection and Removal from a Single Image with Contextualized Deep Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1377-1393.	9.7	224
1526	Multimodal Image Super-Resolution via Joint Sparse Representations Induced by Coupled Dictionaries. IEEE Transactions on Computational Imaging, 2020, 6, 57-72.	2.6	42
1527	Adaptive l-norm constrained general nonlocal self-similarity regularizer based sparse representation for single image super-resolution. Information Fusion, 2020, 53, 88-102.	11.7	10
1528	Modeling and Optimizing of the Multi-Layer Nearest Neighbor Network for Face Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4513-4525.	5.6	14
1529	ISRGAN: Improved Super-Resolution Using Generative Adversarial Networks. Advances in Intelligent Systems and Computing, 2020, , 109-127.	0.5	0
1530	Perceptual image quality using dual generative adversarial network. Neural Computing and Applications, 2020, 32, 14521-14531.	3.2	10
1531	Defocus Blur Detection via Multi-Stream Bottom-Top-Bottom Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1884-1897.	9.7	48
1532	Super-resolution Reconstruction Using Multiconnection Deep Residual Network Combined an Improved Loss Function for Single-frame Image. Multimedia Tools and Applications, 2020, 79, 9351-9362.	2.6	7
1533	Cognitive Internet of Things: Frameworks, Tools and Applications. Studies in Computational Intelligence, 2020, , .	0.7	0
1534	Ensemble Super-Resolution With a Reference Dataset. IEEE Transactions on Cybernetics, 2020, 50, 4694-4708.	6.2	16
1535	Microscopic image super resolution using deep convolutional neural networks. Multimedia Tools and Applications, 2020, 79, 15397-15415.	2.6	8
1536	FilterNet: Adaptive Information Filtering Network for Accurate and Fast Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 1511-1523.	5.6	30
1537	Incorporating prior knowledge via volumetric deep residual network to optimize the reconstruction of sparsely sampled MRI. Magnetic Resonance Imaging, 2020, 66, 93-103.	1.0	29
1538	Depth image super-resolution based on joint sparse coding. Pattern Recognition Letters, 2020, 130, 21-29.	2.6	11
1539	Noise-Robust Iterative Back-Projection. IEEE Transactions on Image Processing, 2020, 29, 1219-1232.	6.0	8
1540	Depth image upsampling based on guided filter with low gradient minimization. Visual Computer, 2020, 36, 1411-1422.	2.5	4

#	ARTICLE	IF	CITATIONS
1541	Deep Learning for Low-Dose CT Denoising Using Perceptual Loss and Edge Detection Layer. Journal of Digital Imaging, 2020, 33, 504-515.	1.6	74
1542	Predicting Humphrey 10-2 visual field from 24-2 visual field in eyes with advanced glaucoma. British Journal of Ophthalmology, 2020, 104, 642-647.	2.1	11
1543	Hyperspectral image super-resolution using recursive densely convolutional neural network with spatial constraint strategy. Neural Computing and Applications, 2020, 32, 14471-14481.	3.2	5
1544	Deep learning for enhancing wavefield image quality in fast non-contact inspections. Structural Health Monitoring, 2020, 19, 1003-1016.	4.3	26
1545	Identifying tiny faces in thermal images using transfer learning. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 1957-1966.	3.3	5
1546	Deep Non-Local Kalman Network for Video Compression Artifact Reduction. IEEE Transactions on Image Processing, 2020, 29, 1725-1737.	6.0	24
1547	Super-resolution reconstruction of knee magnetic resonance imaging based on deep learning. Computer Methods and Programs in Biomedicine, 2020, 187, 105059.	2.6	54
1548	Learning image compressed sensing with sub-pixel convolutional generative adversarial network. Pattern Recognition, 2020, 98, 107051.	5.1	41
1549	Deep MR Brain Image Super-Resolution Using Spatio-Structural Priors. IEEE Transactions on Image Processing, 2020, 29, 1368-1383.	6.0	37
1550	Receptive Field Size Versus Model Depth for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2020, 29, 1669-1682.	6.0	18
1551	Deep artifact-free residual network for single-image super-resolution. Signal, Image and Video Processing, 2020, 14, 407-415.	1.7	8
1552	Effective image super resolution via hierarchical convolutional neural network. Neurocomputing, 2020, 374, 109-116.	3.5	27
1553	Super-resolved thermal imagery for high-accuracy facial areas detection and analysis. Engineering Applications of Artificial Intelligence, 2020, 87, 103263.	4.3	17
1554	Machine Learning in PET: From Photon Detection to Quantitative Image Reconstruction. Proceedings of the IEEE, 2020, 108, 51-68.	16.4	72
1555	Learning on the Edge: Investigating Boundary Filters in CNNs. International Journal of Computer Vision, 2020, 128, 773-782.	10.9	19
1556	Hybrid neural recommendation with joint deep representation learning of ratings and reviews. Neurocomputing, 2020, 374, 77-85.	3.5	71
1557	Ultra-dense GAN for satellite imagery super-resolution. Neurocomputing, 2020, 398, 328-337.	3.5	48
1558	Fixed pattern noise reduction for infrared images based on cascade residual attention CNN. Neurocomputing, 2020, 377, 301-313.	3.5	62



#	ARTICLE	IF	CITATIONS
1560	Vehicle Detection in Remote Sensing Images Leveraging on Simultaneous Super-Resolution. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 676-680.	1.4	40
1561	Channel-Wise and Spatial Feature Modulation Network for Single Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3911-3927.	5.6	191
1562	Context-Adaptive Neural Network-Based Prediction for Image Compression. IEEE Transactions on Image Processing, 2020, 29, 679-693.	6.0	36
1563	Multi-Temporal Ultra Dense Memory Network for Video Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2503-2516.	5.6	94
1564	Single image super-resolution reconstruction based on multi-scale feature mapping adversarial network. Signal Processing, 2020, 166, 107251.	2.1	17
1565	Remote sensing image fusion based on two-stream fusion network. Information Fusion, 2020, 55, 1-15.	11.7	198
1566	Generalized Laplacian Pyramid Pan-Sharpening Gain Injection Prediction Based on CNN. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 651-655.	1.4	16
1567	Face hallucination via multiple feature learning with hierarchical structure. Information Sciences, 2020, 512, 416-430.	4.0	6
1568	CoRRN: Cooperative Reflection Removal Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2969-2982.	9.7	50
1569	RYF-Net: Deep Fusion Network for Single Image Haze Removal. IEEE Transactions on Image Processing, 2020, 29, 628-640.	6.0	58
1570	CT Super-Resolution GAN Constrained by the Identical, Residual, and Cycle Learning Ensemble (GAN-CIRCLE). IEEE Transactions on Medical Imaging, 2020, 39, 188-203.	5.4	289
1571	A Novel Convolutional Neural Network for Image Steganalysis With Shared Normalization. IEEE Transactions on Multimedia, 2020, 22, 256-270.	5.2	33
1572	A Survey of Deep Learning Techniques for Medical Diagnosis. Advances in Intelligent Systems and Computing, 2020, , 161-170.	0.5	15
1573	Deep Inception-Residual Laplacian Pyramid Networks for Accurate Single-Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1514-1528.	7.2	22
1574	Hyperspectral Pansharpening With Deep Priors. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1529-1543.	7.2	77
1575	Memristive continuous Hopfield neural network circuit for image restoration. Neural Computing and Applications, 2020, 32, 8175-8185.	3.2	32
1576	Super-resolution using multi-channel merged convolutional network. Neurocomputing, 2020, 394, 136-145.	3.5	10
1577	Lightweight Pyramid Networks for Image Deraining. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1794-1807.	7.2	221



#	ARTICLE	IF	CITATIONS
1578	Adaptive windows multiple deep residual networks for speech recognition. Expert Systems With Applications, 2020, 139, 112840.	4.4	20
1579	Machine learning based video coding optimizations: A survey. Information Sciences, 2020, 506, 395-423.	4.0	52
1580	Bi-perspective Fisher discrimination for single depth map upsampling: A self-learning classification-based approach. Neurocomputing, 2020, 380, 321-340.	3.5	3
1581	Faster image super-resolution by improved frequency-domain neural networks. Signal, Image and Video Processing, 2020, 14, 257-265.	1.7	12
1582	Improving Image Resolution of Whole-Heart Coronary MRA Using Convolutional Neural Network. Journal of Digital Imaging, 2020, 33, 497-503.	1.6	10
1583	Post-processing for intra coding through perceptual adversarial learning and progressive refinement. Neurocomputing, 2020, 394, 158-167.	3.5	8
1584	A Switchable Deep Learning Approach for In-loop Filtering in Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2020, , 1-1.	5.6	37
1585	Multiple Cycle-in-Cycle Generative Adversarial Networks for Unsupervised Image Super-Resolution. IEEE Transactions on Image Processing, 2020, 29, 1101-1112.	6.0	65
1586	MRFN: Multi-Receptive-Field Network for Fast and Accurate Single Image Super-Resolution. IEEE Transactions on Multimedia, 2020, 22, 1042-1054.	5.2	62
1587	Image denoising using deep CNN with batch renormalization. Neural Networks, 2020, 121, 461-473.	3.3	314
1588	Adaptive Importance Learning for Improving Lightweight Image Super-Resolution Network. International Journal of Computer Vision, 2020, 128, 479-499.	10.9	22
1589	Hallucinating Unaligned Face Images by Multiscale Transformative Discriminative Networks. International Journal of Computer Vision, 2020, 128, 500-526.	10.9	30
1590	A comparative study of CNN-based super-resolution methods in MRI reconstruction and its beyond. Signal Processing: Image Communication, 2020, 81, 115701.	1.8	27
1591	ImageDataExtractor: A Tool To Extract and Quantify Data from Microscopy Images. Journal of Chemical Information and Modeling, 2020, 60, 2492-2509.	2.5	29
1592	Robust approximations of low-rank minimization for tensor completion. Neurocomputing, 2020, 379, 319-333.	3.5	6
1593	A Pseudo-Blind Convolutional Neural Network for the Reduction of Compression Artifacts. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 1121-1135.	5.6	29
1594	A Deep Learning Framework for Joint Image Restoration and Recognition. Circuits, Systems, and Signal Processing, 2020, 39, 1561-1580.	1.2	14
1595	Temporally downsampled cerebral CT perfusion image restoration using deep residual learning. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 193-201.	1.7	10

#	ARTICLE	IF	CITATIONS
1596	DeepBinaryMask: Learning a binary mask for video compressive sensing. , 2020, 96, 102591.		45
1597	Single image super resolution using dictionary learning and sparse coding with multi-scale and multi-directional Gabor feature representation. Information Sciences, 2020, 512, 1264-1278.	4.0	19
1598	Resizing and cleaning of histopathological images using generative adversarial networks. Physica A: Statistical Mechanics and Its Applications, 2020, 554, 122652.	1.2	14
1599	Multi-Direction Dictionary Learning Based Depth Map Super-Resolution With Autoregressive Modeling. IEEE Transactions on Multimedia, 2020, 22, 1470-1484.	5.2	24
1600	Deep residual network for highly accelerated fMRI reconstruction using variable density spiral trajectory. Neurocomputing, 2020, 398, 338-346.	3.5	5
1601	Deep fractal residual network for fast and accurate single image super resolution. Neurocomputing, 2020, 398, 389-398.	3.5	6
1602	Multi-objective optimization of reliability-redundancy allocation problem for multi-type production systems considering redundancy strategies. Reliability Engineering and System Safety, 2020, 193, 106681.	5.1	48
1603	Progressive Sub-Band Residual-Learning Network for MR Image Super Resolution. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 377-386.	3.9	33
1604	Image synthesis and superresolution in medical imaging. , 2020, , 1-24.		3
1605	A deep learning approach for quality enhancement of surveillance video. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2020, 24, 304-314.	2.6	14
1606	Frank-Wolfe Network: An Interpretable Deep Structure for Non-Sparse Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 3068-3080.	5.6	8
1607	Induced-Current Learning Method for Nonlinear Reconstructions in Electrical Impedance Tomography. IEEE Transactions on Medical Imaging, 2020, 39, 1326-1334.	5.4	36
1608	Coupled Adversarial Training for Remote Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3633-3643.	2.7	87
1609	Gated Fusion Network for Degraded Image Super Resolution. International Journal of Computer Vision, 2020, 128, 1699-1721.	10.9	21
1610	Image super-resolution based on half quadratic splitting. Infrared Physics and Technology, 2020, 105, 103193.	1.3	15
1611	Lightweight group convolutional network for single image super-resolution. Information Sciences, 2020, 516, 220-233.	4.0	18
1612	Deep DoseNet: a deep neural network for accurate dosimetric transformation between different spatial resolutions and/or different dose calculation algorithms for precision radiation therapy. Physics in Medicine and Biology, 2020, 65, 035010.	1.6	30
1613	Multi-task CNN for restoring corrupted fingerprint images. Pattern Recognition, 2020, 101, 107203.	5.1	34

#	ARTICLE	IF	CITATIONS
1614	RGB-IR Cross Input and Sub-Pixel Upsampling Network for Infrared Image Super-Resolution. <i>Sensors</i> , 2020, 20, 281.	2.1	13
1615	Unsupervised Low-Light Image Enhancement Using Bright Channel Prior. <i>IEEE Signal Processing Letters</i> , 2020, 27, 251-255.	2.1	63
1616	Face super-resolution via nonlinear adaptive representation. <i>Neural Computing and Applications</i> , 2020, 32, 11637-11649.	3.2	4
1617	Discriminative Region Proposal Adversarial Network for High-Quality Image-to-Image Translation. <i>International Journal of Computer Vision</i> , 2020, 128, 2366-2385.	10.9	3
1618	Face quality analysis of single-image super-resolution based on SIFT. <i>Signal, Image and Video Processing</i> , 2020, 14, 829-837.	1.7	1
1619	Content-guided deep residual network for single image super-resolution. <i>Optik</i> , 2020, 202, 163678.	1.4	9
1620	A Dual-Branch Attention fusion deep network for multiresolution remote Sensing image classification. <i>Information Fusion</i> , 2020, 58, 116-131.	11.7	47
1621	Deep learning-based super-resolution of 3D magnetic resonance images by regularly spaced shifting. <i>Neurocomputing</i> , 2020, 398, 314-327.	3.5	9
1622	Benefiting from multitask learning to improve single image super-resolution. <i>Neurocomputing</i> , 2020, 398, 304-313.	3.5	14
1623	A domain adaptation approach to solve inverse problems in imaging via coupled deep dictionary learning. <i>Pattern Recognition</i> , 2020, 100, 107163.	5.1	10
1624	Boosting Resolution and Recovering Texture of 2D and 3D Micro-CT Images with Deep Learning. <i>Water Resources Research</i> , 2020, 56, e2019WR026052.	1.7	57
1625	Deep Video Precoding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 4913-4928.	5.6	7
1626	ATMFN: Adaptive-Threshold-Based Multi-Model Fusion Network for Compressed Face Hallucination. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 2734-2747.	5.2	72
1627	Depth Map Enhancement by Revisiting Multi-Scale Intensity Guidance Within Coarse-to-Fine Stages. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 4676-4687.	5.6	14
1628	OIDC-Net: Omnidirectional Image Distortion Correction via Coarse-to-Fine Region Attention. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2020, 14, 222-231.	7.3	9
1629	A new deep learning method for image deblurring in optical microscopic systems. <i>Journal of Biophotonics</i> , 2020, 13, e201960147.	1.1	35
1630	A deep learning approach for speaker recognition. <i>International Journal of Speech Technology</i> , 2020, 23, 123-131.	1.4	25
1631	A hybrid fuzzy filtering - fuzzy thresholding technique for region of interest detection in noisy images. <i>Applied Intelligence</i> , 2020, 50, 1112-1132.	3.3	10

#	ARTICLE	IF	CITATIONS
1632	Low-resolution facial expression recognition: A filter learning perspective. <i>Signal Processing</i> , 2020, 169, 107370.	2.1	30
1633	Deep Learning in Healthcare. <i>Intelligent Systems Reference Library</i> , 2020, , .	1.0	45
1634	Error Improvement in Visual Odometry Using Super-resolution. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 322-329.	1.6	4
1635	Single Image Super-Resolution: Depthwise Separable Convolution Super-Resolution Generative Adversarial Network. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 375.	1.3	14
1636	Deep learning-based super-resolution for small-angle neutron scattering data: attempt to accelerate experimental workflow. <i>MRS Communications</i> , 2020, 10, 11-17.	0.8	12
1637	CNF+CT: Context Network Fusion of Cascade-Trained Convolutional Neural Networks for Image Super-Resolution. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 447-462.	2.6	6
1638	The NoisyOffice Database: A Corpus To Train Supervised Machine Learning Filters For Image Processing. <i>Computer Journal</i> , 2020, 63, 1658-1667.	1.5	3
1639	Deep Learning for Multiple-Image Super-Resolution. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1062-1066.	1.4	60
1640	Attention-aware perceptual enhancement nets for low-resolution image classification. <i>Information Sciences</i> , 2020, 515, 233-247.	4.0	39
1641	Noisy practical facial super-resolution method via deformable constrained model with small dataset. <i>Multimedia Tools and Applications</i> , 2020, 79, 2577-2600.	2.6	1
1642	CNN-based superresolution reconstruction of 3D MR images using thick-slice scans. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 111-125.	3.3	22
1643	Video super-resolution via pre-frame constrained and deep-feature enhanced sparse reconstruction. <i>Pattern Recognition</i> , 2020, 100, 107139.	5.1	10
1644	Resolution enhancement for inverse synthetic aperture radar images using a deep residual network. <i>Microwave and Optical Technology Letters</i> , 2020, 62, 1588-1593.	0.9	10
1645	Self-Enhanced Convolutional Network for Facial Video Hallucination. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 3078-3090.	6.0	4
1646	FCSR-GAN: Joint Face Completion and Super-Resolution via Multi-Task Learning. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2020, 2, 109-121.	3.8	33
1647	Residual Encoder-Decoder Conditional Generative Adversarial Network for Pansharpening. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1573-1577.	1.4	49
1648	DRCDN: learning deep residual convolutional dehazing networks. <i>Visual Computer</i> , 2020, 36, 1797-1808.	2.5	130
1649	Generative collaborative networks for single image super-resolution. <i>Neurocomputing</i> , 2020, 398, 293-303.	3.5	7

#	ARTICLE	IF	CITATIONS
1650	Gibbs-ringing artifact suppression with knowledge transfer from natural images to MR images. Multimedia Tools and Applications, 2020, 79, 33711-33733.	2.6	10
1651	Feature refinement for image-based driver action recognition via multi-scale attention convolutional neural network. Signal Processing: Image Communication, 2020, 81, 115697.	1.8	23
1652	Mixed-dense connection networks for image and video super-resolution. Neurocomputing, 2020, 398, 360-376.	3.5	7
1653	Neumann Networks for Linear Inverse Problems in Imaging. IEEE Transactions on Computational Imaging, 2020, 6, 328-343.	2.6	111
1654	diffGrad: An Optimization Method for Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4500-4511.	7.2	133
1655	Reduction of JPEG compression artifacts based on DCT coefficients prediction. Neurocomputing, 2020, 384, 335-345.	3.5	20
1656	DRCS-SR: Deep Robust Compressed Sensing for Single Image Super-Resolution. IEEE Access, 2020, 8, 170618-170634.	2.6	1
1657	Image Super-Resolution Reconstruction Based on Deep Residual Network. , 2020, , .		0
1658	An Effective Hierarchical Resolution Learning Method for Low-Resolution Targets Tracking. , 2020, , .		0
1659	FarSee-Net: Real-Time Semantic Segmentation by Efficient Multi-scale Context Aggregation and Feature Space Super-resolution. , 2020, , .		15
1660	An Efficient Multi-scale Method for Single Image Super Resolution. , 2020, , .		1
1661	Convolutional Neural Network Combined with Half-Quadratic Splitting Method for Image Restoration. Journal of Sensors, 2020, 2020, 1-12.	0.6	3
1662	Advancing Fusion with Machine Learning Research Needs Workshop Report. Journal of Fusion Energy, 2020, 39, 123-155.	0.5	17
1663	Video frame interpolation using deep cascaded network structure. Signal Processing: Image Communication, 2020, 89, 115982.	1.8	4
1664	A multi-scale residual network for accelerated radial MR parameter mapping. Magnetic Resonance Imaging, 2020, 73, 152-162.	1.0	11
1665	Learning cascaded convolutional networks for blind single image super-resolution. Neurocomputing, 2020, 417, 371-383.	3.5	10
1666	Deconvolutional neural network for image super-resolution. Neural Networks, 2020, 132, 394-404.	3.3	28
1667	SEMEDA: Enhancing segmentation precision with semantic edge aware loss. Pattern Recognition, 2020, 108, 107557.	5.1	15

#	ARTICLE	IF	CITATIONS
1668	End-to-End JPEG Decoding and Artifacts Suppression Using Heterogeneous Residual Convolutional Neural Network. , 2020, , .		3
1670	Online Trajectory Planning Through Combined Trajectory Optimization and Function Approximation: Application to the Exoskeleton Atalante. , 2020, , .		3
1671	Identifying Facemask-Wearing Condition Using Image Super-Resolution with Classification Network to Prevent COVID-19. Sensors, 2020, 20, 5236.	2.1	171
1672	When Autonomous Systems Meet Accuracy and Transferability through AI: A Survey. Patterns, 2020, 1, 100050.	3.1	15
1673	Semantic Segmentation for Aerial Mapping. Mathematics, 2020, 8, 1456.	1.1	4
1674	Improved dual-scale residual network for image super-resolution. Neural Networks, 2020, 132, 84-95.	3.3	13
1675	Study on the spatial differentiation of environmental governance performance of Yangtze river urban agglomeration in Jiangsu province of China. Land Use Policy, 2020, 99, 105063.	2.5	45
1676	Pan-Sharpening With Color-Aware Perceptual Loss And Guided Re-Colorization. , 2020, , .		4
1677	A new resolution enhancement method for sandstone thin-section images using perceptual GAN. Journal of Petroleum Science and Engineering, 2020, 195, 107921.	2.1	10
1678	Small Object Detection in Remote Sensing Images Based on Super-Resolution with Auxiliary Generative Adversarial Networks. Remote Sensing, 2020, 12, 3152.	1.8	57
1679	67â€1: Distinguished Paper: Efficient Multiâ€Quality Super Resolution Using a Deep Convolutional Neural Network for an FPGA Implementation. Digest of Technical Papers SID International Symposium, 2020, 51, 993-996.	0.1	0
1680	Real-time underwater image resolution enhancement using super-resolution with deep convolutional neural networks. Journal of Real-Time Image Processing, 2021, 18, 1653-1667.	2.2	11
1681	Neural Architecture Search for compressed sensing Magnetic Resonance image reconstruction. Computerized Medical Imaging and Graphics, 2020, 85, 101784.	3.5	17
1682	Artificial intelligence enhanced two-dimensional nanoscale nuclear magnetic resonance spectroscopy. Npj Quantum Information, 2020, 6, .	2.8	8
1683	Generative Adversarial Network for Image Super-Resolution Combining Texture Loss. Applied Sciences (Switzerland), 2020, 10, 1729.	1.3	13
1684	Object based convolutional neural network for cloud classification in very high-resolution hyperspectral imagery. IOP Conference Series: Earth and Environmental Science, 2020, 500, 012059.	0.2	0
1685	Adaptive Multi-Modality Residual Network for Compression Distorted Multi-View Depth Video Enhancement. IEEE Access, 2020, 8, 97072-97081.	2.6	5
1686	Uneven Image Dehazing by Heterogeneous Twin Network. IEEE Access, 2020, 8, 118485-118496.	2.6	2

#	ARTICLE	IF	CITATIONS
1687	Small and Slim Deep Convolutional Neural Network for Mobile Device. IEEE Access, 2020, 8, 125210-125222.	2.6	31
1688	Efficient Spatial Pyramid of Dilated Convolution and Bottleneck Network for Zero-Shot Super Resolution. IEEE Access, 2020, 8, 117961-117971.	2.6	5
1689	3D Reconstruction for Super-Resolution CT Images in the Internet of Health Things Using Deep Learning. IEEE Access, 2020, 8, 121513-121525.	2.6	18
1690	Thermal Image Reconstruction Using Deep Learning. IEEE Access, 2020, 8, 126839-126858.	2.6	15
1691	Research on Population Spatialization Method Based on PMST-SRCNN. E3S Web of Conferences, 2020, 165, 03019.	0.2	0
1692	Large Factor Image Super-Resolution With Cascaded Convolutional Neural Networks. IEEE Transactions on Multimedia, 2021, 23, 2172-2184.	5.2	13
1693	Multi-Image Super Resolution of Remotely Sensed Images Using Residual Attention Deep Neural Networks. Remote Sensing, 2020, 12, 2207.	1.8	73
1694	Lightening Network for Low-Light Image Enhancement. IEEE Transactions on Image Processing, 2020, 29, 7984-7996.	6.0	133
1695	Modeling EEG Data Distribution With a Wasserstein Generative Adversarial Network to Predict RSVP Events. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1720-1730.	2.7	30
1696	Multiresolution Mixture Generative Adversarial Network For Image Super-Resolution. , 2020, , .		0
1697	Super-resolution of SDO/HMI Magnetograms Using Novel Deep Learning Methods. Astrophysical Journal Letters, 2020, 897, L32.	3.0	13
1698	Realistic hair simulator for skin lesion images: A novel benchmarking tool. Artificial Intelligence in Medicine, 2020, 108, 101933.	3.8	10
1699	A review of experimental and numerical modeling of digital coalbed methane: Imaging, segmentation, fracture modeling and permeability prediction. International Journal of Coal Geology, 2020, 228, 103552.	1.9	49
1700	Lightweight image super-resolution with enhanced CNN. Knowledge-Based Systems, 2020, 205, 106235.	4.0	99
1701	Removing Arbitrary-Scale Rain Streaks via Fractal Band Learning With Self-Supervision. IEEE Transactions on Image Processing, 2020, 29, 6759-6772.	6.0	13
1702	Super-Resolution of Intravoxel Incoherent Motion Imaging Based on Multisimilarity. IEEE Sensors Journal, 2020, 20, 10963-10973.	2.4	6
1703	A multiresolution mixture generative adversarial network for video super-resolution. PLoS ONE, 2020, 15, e0235352.	1.1	0
1704	Image interpolation model based on packet losing network. Multimedia Tools and Applications, 2020, 79, 25785-25800.	2.6	2



#	ARTICLE	IF	CITATIONS
1705	Trends in Super-High-Definition Imaging Techniques Based on Deep Neural Networks. Mathematics, 2020, 8, 1907.	1.1	4
1706	Convolution Kernel Operations on a Two-Dimensional Spin Memristor Cross Array. Sensors, 2020, 20, 6229.	2.1	0
1707	Dual-Path Deep Fusion Network for Face Image Hallucination. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 378-391.	7.2	51
1708	Image Super-Resolution Using Lightweight Multiscale Residual Dense Network. International Journal of Optics, 2020, 2020, 1-11.	0.6	3
1709	A novel non-customary method of image compression based on image spectrum. Sadhana - Academy Proceedings in Engineering Sciences, 2020, 45, 1.	0.8	2
1710	Recent advances in point spread function engineering and related computational microscopy approaches: from one viewpoint. Biophysical Reviews, 2020, 12, 1303-1309.	1.5	8
1711	A Comparative Analysis of Deep Learning based Super-Resolution Techniques for Thermal Videos. , 2020, , .		2
1712	Extractionâ€andâ€excitation deep neural network for pansharpening. Concurrency Computation Practice and Experience, 2023, 35, e6098.	1.4	1
1713	Single-image super-resolution based on local biquadratic spline with edge constraints and adaptive optimization in transform domain. Visual Computer, 2022, 38, 119-134.	2.5	8
1714	A deep convolutional neural network for simultaneous denoising and deblurring in computed tomography. Journal of Instrumentation, 2020, 15, P12001-P12001.	0.5	5
1715	Style-Based Unsupervised Learning for Real-World Face Image Super-Resolution. , 0, , .		2
1716	Super-resolution mapping of hyperspectral data using Artificial Neural Network and wavelet. Remote Sensing Applications: Society and Environment, 2020, 20, 100374.	0.8	5
1717	Improved Photoacoustic Imaging of Numerical Bone Model Based on Attention Block U-Net Deep Learning Network. Applied Sciences (Switzerland), 2020, 10, 8089.	1.3	3
1718	Structural Similarity Loss for Learning to Fuse Multi-Focus Images. Sensors, 2020, 20, 6647.	2.1	10
1719	Deep-Learning-Based Computer-Aided Systems for Breast Cancer Imaging: A Critical Review. Applied Sciences (Switzerland), 2020, 10, 8298.	1.3	44
1720	SD-FB-GAN: Saliency-Driven Feedback Gan for Remote Sensing Image Super-Resolution Reconstruction. , 2020, , .		3
1721	Fusion of Deep and Non-Deep Methods for Fast Super-Resolution of Satellite Images. , 2020, , .		1
1722	Shrinkage as Activation for Learned Image Compression. , 2020, , .		2



#	ARTICLE	IF	CITATIONS
1723	Remote Estimation of Water Quality Parameters of Medium- and Small-Sized Inland Rivers Using Sentinel-2 Imagery. <i>Water (Switzerland)</i> , 2020, 12, 3124.	1.2	15
1724	OrigamiNet: Weakly-Supervised, Segmentation-Free, One-Step, Full Page Text Recognition by learning to unfold. , 2020, , .		47
1725	FBRNN: feedback recurrent neural network for extreme image super-resolution. , 2020, , .		8
1726	Color-wise Attention Network for Low-light Image Enhancement. , 2020, , .		23
1727	Toward Real-world Panoramic Image Enhancement. , 2020, , .		6
1728	Improving Quality of Experience by Adaptive Video Streaming with Super-Resolution. , 2020, , .		42
1729	SRNPU: An Energy-Efficient CNN-Based Super-Resolution Processor With Tile-Based Selective Super-Resolution in Mobile Devices. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2020, 10, 320-334.	2.7	29
1730	Momentum-Net: Fast and Convergent Iterative Neural Network for Inverse Problems. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2023, 45, 4915-4931.	9.7	52
1731	Unpaired Image Super-Resolution Using Pseudo-Supervision. , 2020, , .		92
1732	Multimodal MR Image Synthesis Using Gradient Prior and Adversarial Learning. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2020, 14, 1176-1188.	7.3	46
1733	DeFusionNET: Defocus Blur Detection via Recurrently Fusing and Refining Discriminative Multi-Scale Deep Features. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 955-968.	9.7	45
1734	Component Attention Guided Face Super-Resolution Network: CAGFace. , 2020, , .		21
1735	Optimization-Driven Kernel and Deep Convolutional Neural Network for Multi-View Face Video Super Resolution. <i>International Journal of Digital Crime and Forensics</i> , 2020, 12, 77-95.	0.5	1
1736	Image super-resolution reconstruction based on generative adversarial network model with double discriminators. <i>Multimedia Tools and Applications</i> , 2020, 79, 29639-29662.	2.6	5
1737	Deep Image Blending. , 2020, , .		48
1738	Learning-Based Quality Enhancement For Scalable Coded Video Over Packet Lossy Networks. , 2020, , .		2
1739	2Ser-Vgsr-Net: A Two-Stage Enhancement Reconstruction Based On Video Group Sparse Representation Network For Compressed Video Sensing. , 2020, , .		4
1740	Multi-Context And Enhanced Reconstruction Network For Single Image Super Resolution. , 2020, , .		14

#	ARTICLE	IF	CITATIONS
1741	Srnmfrb: A Deep Light-Weight Super Resolution Network Using Multi-Receptive Field Feature Generation Residual Blocks. , 2020, , .		3
1742	Low-light-level image enhancement algorithm based on integrated networks. Multimedia Systems, 2020, , 1.	3.0	3
1743	Frame interpolation in video stream using optical flow methods. Journal of Physics: Conference Series, 2020, 1488, 012024.	0.3	3
1744	Learning Sparse Low-Precision Neural Networks With Learnable Regularization. IEEE Access, 2020, 8, 96963-96974.	2.6	15
1745	Perceptual Metric Guided Deep Attention Network for Single Image Super-Resolution. Electronics (Switzerland), 2020, 9, 1145.	1.8	3
1746	A Truncated Matrix Decomposition for Hyperspectral Image Super-Resolution. IEEE Transactions on Image Processing, 2020, 29, 8028-8042.	6.0	51
1747	Super-resolved Chromatic Mapping of Snapshot Mosaic Image Sensors via a Texture Sensitive Residual Network. , 2020, , .		0
1748	Super Resolution by Deep Learning Improves Boulder Detection in Side Scan Sonar Backscatter Mosaics. Remote Sensing, 2020, 12, 2284.	1.8	9
1749	Super-resolution Restoration of Single Vehicle Image Based on ESPCN-VISR Model. IOP Conference Series: Materials Science and Engineering, 2020, 790, 012107.	0.3	2
1750	Multi-Image Super-Resolution for Remote Sensing using Deep Recurrent Networks. , 2020, , .		11
1751	Unsupervised Remote Sensing Image Super-Resolution Method Based on Adaptive Domain Distance Measurement Network. , 2020, , .		3
1752	NTIRE 2020 Challenge on Perceptual Extreme Super-Resolution: Methods and Results. , 2020, , .		27
1753	NTIRE 2020 Challenge on Real-World Image Super-Resolution: Methods and Results. , 2020, , .		84
1754	Laplacian Generative Adversarial Networks for Multi-Scale Super-Resolution. , 2020, , .		1
1755	WSN Sampling Optimization for Signal Reconstruction Using Spatiotemporal Autoencoder. IEEE Sensors Journal, 2020, 20, 14290-14301.	2.4	9
1756	Deep Learning for Land Use and Land Cover Classification Based on Hyperspectral and Multispectral Earth Observation Data: A Review. Remote Sensing, 2020, 12, 2495.	1.8	177
1757	Real-World Super-Resolution via Kernel Estimation and Noise Injection. , 2020, , .		160
1758	Unsupervised Image Super-Resolution with an Indirect Supervised Path. , 2020, , .		32

#	ARTICLE	IF	CITATIONS
1759	Deep learning methods for solving linear inverse problems: Research directions and paradigms. Signal Processing, 2020, 177, 107729.	2.1	40
1760	Mosaic Super-resolution via Sequential Feature Pyramid Networks. , 2020, , .		3
1761	TherISuRNet - A Computationally Efficient Thermal Image Super-Resolution Network. , 2020, , .		23
1762	A Multi-Level Supervision Model: A novel approach for Thermal Image Super Resolution. , 2020, , .		10
1763	SR-CL-DMC: P-frame coding with Super-Resolution, Color Learning, and Deep Motion Compensation. , 2020, , .		4
1764	Compression Artifact Removal with Ensemble Learning of Neural Networks. , 2020, , .		2
1765	S2A: Wasserstein GAN with Spatio-Spectral Laplacian Attention for Multi-Spectral Band Synthesis. , 2020, , .		1
1766	Monte-Carlo Siamese Policy on Actor for Satellite Image Super Resolution. , 2020, , .		4
1767	Investigating Loss Functions for Extreme Super-Resolution. , 2020, , .		32
1768	Guided Frequency Separation Network for Real-World Super-Resolution. , 2020, , .		21
1769	Real-World Super-Resolution using Generative Adversarial Networks. , 2020, , .		11
1770	Perceptual Extreme Super Resolution Network with Receptive Field Block. , 2020, , .		51
1771	Unsupervised Real Image Super-Resolution via Generative Variational AutoEncoder. , 2020, , .		23
1772	Unsupervised Real-World Super Resolution with Cycle Generative Adversarial Network and Domain Discriminator. , 2020, , .		33
1773	Unsupervised Single Image Super-Resolution Network (USISResNet) for Real-World Data Using Generative Adversarial Network. , 2020, , .		22
1774	SimUSR: A Simple but Strong Baseline for Unsupervised Image Super-resolution. , 2020, , .		12
1775	Replacing Mobile Camera ISP with a Single Deep Learning Model. , 2020, , .		111
1776	A Transfer Learning Based Super-Resolution Microscopy for Biopsy Slice Images: The Joint Methods Perspective. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 18, 1-1.	1.9	33

#	ARTICLE	IF	CITATIONS
1777	Image interpolation with adaptive $k$ -nearest neighbours search and random non-linear regression. IET Image Processing, 2020, 14, 1539-1548.	1.4	9
1778	SSR-VFD: Spatial Super-Resolution for Vector Field Data Analysis and Visualization. , 2020, , .		38
1779	Learning Backtrackless Aligned-Spatial Graph Convolutional Networks for Graph Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 783-798.	9.7	43
1780	Single Image Super-Resolution Using Frequency-Dependent Convolutional Neural Networks. , 2020, , .		2
1781	Content-aware Upsampling for Single Image Super-resolution. , 2020, , .		1
1782	Thangka image edge detection algorithm based on morphology and RCF. , 2020, , .		1
1783	Dual Back-Projection-Based Internal Learning for Blind Super-Resolution. IEEE Signal Processing Letters, 2020, 27, 1190-1194.	2.1	18
1784	Convolutional Neural Network with Squeeze and Excitation Modules for Image Blind Deblurring. , 2020, , .		3
1785	Inferring Super-Resolution Depth from a Moving Light-Source Enhanced RGB-D Sensor: A Variational Approach. , 2020, , .		7
1786	Multimodal Image Outpainting with Regularized Normalized Diversification. , 2020, , .		9
1787	Spatiotemporal Fusion of Remote Sensing Image Based on Deep Learning. Journal of Sensors, 2020, 2020, 1-11.	0.6	19
1788	PercepPan: Towards Unsupervised Pan-Sharpener Based on Perceptual Loss. Remote Sensing, 2020, 12, 2318.	1.8	32
1789	Blur detection via deep pyramid network with recurrent distinction enhanced modules. Neurocomputing, 2020, 414, 278-290.	3.5	3
1790	A bird's-eye view of deep learning in bioimage analysis. Computational and Structural Biotechnology Journal, 2020, 18, 2312-2325.	1.9	94
1791	A Novel Data Augmentation Method for Intelligent Fault Diagnosis Under Speed Fluctuation Condition. IEEE Access, 2020, 8, 143383-143396.	2.6	10
1792	Dual Super-Resolution Learning for Semantic Segmentation. , 2020, , .		111
1793	DuDoRNet: Learning a Dual-Domain Recurrent Network for Fast MRI Reconstruction With Deep T1 Prior. , 2020, , .		65
1794	Accurate and Efficient Image Super-Resolution via Global-Local Adjusting Dense Network. IEEE Transactions on Multimedia, 2021, 23, 1924-1937.	5.2	23

#	ARTICLE	IF	CITATIONS
1795	Single Image Super-resolution Reconstruction with Wavelet based Deep Residual Learning. , 2020, , .		5
1796	iSeeBetter: Spatio-temporal video super-resolution using recurrent generative back-projection networks. Computational Visual Media, 2020, 6, 307-317.	10.8	18
1797	Light Field Spatial Super-Resolution via Deep Combinatorial Geometry Embedding and Structural Consistency Regularization. , 2020, , .		87
1798	3D Packing for Self-Supervised Monocular Depth Estimation. , 2020, , .		341
1799	Space-Time-Aware Multi-Resolution Video Enhancement. , 2020, , .		62
1800	Deep Unfolding Network for Image Super-Resolution. , 2020, , .		302
1801	Multi-Domain Learning for Accurate and Few-Shot Color Constancy. , 2020, , .		32
1802	Digital Core 3D Reconstruction Based on Micro-CT images via a Deep Learning Method. , 2020, , .		7
1803	Student Session: Turning Over Detecting Using Super-Resolution Thermal Image. , 2020, , .		3
1804	Low-complexity CNN with 1D and 2D filters for super-resolution. Journal of Real-Time Image Processing, 2020, 17, 2065-2076.	2.2	9
1805	Maskpan: Mask Prior Guided Network For Pansharpening. , 2020, , .		1
1806	Single Image Super-Resolution with Hierarchical Receptive Field. , 2020, , .		1
1807	PHMNet: A Deep Super Resolution Network using Parallel and Hierarchical Multi-Scale Residual Blocks. , 2020, , .		2
1808	Multi-Frame Labeled Faces Database: Towards Face Super-Resolution from Realistic Video Sequences. Applied Sciences (Switzerland), 2020, 10, 7213.	1.3	4
1809	Internal Learning for Image Super-Resolution by Adaptive Feature Transform. Symmetry, 2020, 12, 1686.	1.1	4
1810	Multimodal imaging and machine learning to enhance microscope images of shale. Computers and Geosciences, 2020, 145, 104593.	2.0	32
1811	Robust Face Super-Resolution via Position Relation Model Based on Global Face Context. IEEE Transactions on Image Processing, 2020, 29, 9002-9016.	6.0	7
1812	Automated joining element design by predicting spot-weld locations using 3D convolutional neural networks. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
1813	Pose-Guided Person Image Synthesis in the Non-Iconic Views. IEEE Transactions on Image Processing, 2020, 29, 9060-9072.	6.0	11
1814	Arbitrary Back-Projection Networks for Image Super-Resolution. International Journal of Computational Intelligence and Applications, 2020, 19, 2050026.	0.6	0
1815	Enhancing Perceptual Loss with Adversarial Feature Matching for Super-Resolution. , 2020, , .		7
1816	A machine learning approach for magnetic resonance image-based mouse brain modeling and fast computation in controlled cortical impact. Medical and Biological Engineering and Computing, 2020, 58, 2835-2844.	1.6	3
1817	Multi-Frame Star Image Denoising Algorithm Based on Deep Reinforcement Learning and Mixed Poisson-Gaussian Likelihood. Sensors, 2020, 20, 5983.	2.1	9
1818	Retrieval of ice/water observations from synthetic aperture radar imagery for use in lake ice data assimilation. Journal of Great Lakes Research, 2020, 46, 1521-1532.	0.8	11
1819	Recursive Multi-Scale Image Deraining With Sub-Pixel Convolution Based Feature Fusion and Context Aggregation. IEEE Access, 2020, 8, 177495-177505.	2.6	2
1820	Sparse GANs for Thermal Infrared Image Generation From Optical Image. IEEE Access, 2020, 8, 180124-180132.	2.6	12
1821	SR-ITM-GAN: Learning 4K UHD HDR With a Generative Adversarial Network. IEEE Access, 2020, 8, 182815-182827.	2.6	9
1822	CNN Acceleration With Hardware-Efficient Dataflow for Super-Resolution. IEEE Access, 2020, 8, 187754-187765.	2.6	14
1823	Joint Image Super-Resolution Via Recurrent Convolutional Neural Networks With Coupled Sparse Priors. , 2020, , .		3
1824	Super-Resolving Commercial Satellite Imagery Using Realistic Training Data. , 2020, , .		8
1825	Drcas: Deep Restoration Network For Hardware Based Compressive Acquisition Scheme. , 2020, , .		3
1826	Enhanced Image Reconstruction From Quarter Sampling Measurements Using An Adapted Very Deep Super Resolution Network. , 2020, , .		1
1827	Exaggerated Learning For Clean-And-Sharp Image Restoration. , 2020, , .		1
1828	Channel Shuffle Reconstruction Network for Image Compressive Sensing. , 2020, , .		0
1829	SR <sup>2</sup> : Super-Resolution With Structure-Aware Reconstruction. , 2020, , .		2
1830	BIBNet: An Efficient Super Resolution with Bottleneck-In-Bottleneck. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
1831	Change Detection Based on Low-Level to High-Level Features Integration With Limited Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6260-6276.	2.3	8
1832	A Content-Adaptive Resizing Framework for Boosting Computation Speed of Background Modeling Methods. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1192-1204.	5.9	6
1833	PNEN: Pyramid Non-Local Enhanced Networks. IEEE Transactions on Image Processing, 2020, 29, 8831-8841.	6.0	16
1834	A Survey on Restoration of Paintings. , 2020, , .		2
1835	Fast Multi-Focus Ultrasound Image Recovery Using Generative Adversarial Networks. IEEE Transactions on Computational Imaging, 2020, 6, 1272-1284.	2.6	19
1836	Pilot Pattern Design for Deep Learning-Based Channel Estimation in OFDM Systems. IEEE Wireless Communications Letters, 2020, 9, 2173-2176.	3.2	35
1837	Densely Residual Laplacian Super-Resolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1192-1204.	9.7	120
1838	Convolutional Neural Network with Spatial-Variant Convolution Kernel. Remote Sensing, 2020, 12, 2811.	1.8	10
1839	Frequencyâ€“Wavenumber Analysis of Deep Learning-based Super Resolution 3D GPR Images. Remote Sensing, 2020, 12, 3056.	1.8	15
1840	Optimization of Single Image Super-Resolution Reconstruction Algorithm Based on Residual Dense Network. , 2020, , .		2
1841	Image Super Resolution with Sparse Data Using ANFIS Interpolation. , 2020, , .		3
1842	Shuffle block SRGAN for face image super-resolution reconstruction. Measurement and Control, 2020, 53, 1429-1439.	0.9	5
1843	Opinion-unaware blind picture quality measurement using deep encoderâ€“decoder architecture. , 2020, 107, 102834.		1
1844	Residual Forward-Subtracted U-Shaped Network for Dynamic and Static Image Restoration. IEEE Access, 2020, 8, 145401-145412.	2.6	6
1845	Learning Domain-Specific Features From General Features for Person Re-Identification. IEEE Access, 2020, 8, 155389-155398.	2.6	2
1846	Noise-Robust MRI Upsampling Using Adaptive Local Steering Kernel. IEEE Access, 2020, 8, 158538-158548.	2.6	1
1847	Super-Resolution Based Deep Learning Techniques for Panchromatic Satellite Images in Application to Pansharpening. IEEE Access, 2020, 8, 162099-162121.	2.6	6
1848	Non-Locally up-Down Convolutional Attention Network for Remote Sensing Image Super-Resolution. IEEE Access, 2020, 8, 166304-166319.	2.6	9

#	ARTICLE	IF	CITATIONS
1849	Multi-Frame Depth Super-Resolution for ToF Sensor With Total Variation Regularized L1 Function. IEEE Access, 2020, 8, 165810-165826.	2.6	2
1850	Recurrent Embedded Hourglass Network for Single Image Super-Resolution. IEEE Access, 2020, 8, 166176-166183.	2.6	1
1851	An objective measure of signal quality for pediatric lung auscultations. , 2020, 2020, 772-775.		4
1852	CSR-Net: A Novel Complex-Valued Network for Fast and Precise 3-D Microwave Sparse Reconstruction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4476-4492.	2.3	29
1853	Hyperspectral Image Super Resolution Based on Multiscale Feature Fusion and Aggregation Network With 3-D Convolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5180-5193.	2.3	19
1854	Attentive Composite Residual Network for Robust Rain Removal from Single Images. IEEE Transactions on Multimedia, 2021, 23, 3059-3072.	5.2	19
1855	SAR Image Despeckling by Deep Neural Networks: from a Pre-Trained Model to an End-to-End Training Strategy. Remote Sensing, 2020, 12, 2636.	1.8	35
1856	Underwater Image Super-Resolution using Deep Residual Multipliers. , 2020, , .		39
1857	Multi-frame Image Super-Resolution Algorithm Based on Small Amount of Data. , 2020, , .		2
1858	Pansharpening by Complementing Compressed Sensing with Spectral Correction. Applied Sciences (Switzerland), 2020, 10, 5789.	1.3	2
1859	Upsampling Real-Time, Low-Resolution CCTV Videos Using Generative Adversarial Networks. Electronics (Switzerland), 2020, 9, 1312.	1.8	5
1860	Efficient Deconvolution Architecture for Heterogeneous Systems-on-Chip. Journal of Imaging, 2020, 6, 85.	1.7	5
1861	Super-Resolution Reconstruction Algorithm of Target Image Based on Learning Background. , 2020, , .		1
1862	Applying Artificial Intelligence to Mitigate Effects of Patient Motion or Other Complicating Factors on Image Quality. Topics in Magnetic Resonance Imaging, 2020, 29, 175-180.	0.7	19
1863	Super-Resolution of Sentinel-2 Imagery Using Generative Adversarial Networks. Remote Sensing, 2020, 12, 2424.	1.8	49
1864	Bi-Directional Filter for the Removal of Lines and Cracks in Images. Symmetry, 2020, 12, 1280.	1.1	1
1865	Unified Dynamic Convolutional Network for Super-Resolution With Variational Degradations. , 2020, , .		65
1866	Disparity-Aware Domain Adaptation in Stereo Image Restoration. , 2020, , .		26



#	ARTICLE	IF	CITATIONS
1867	Simultaneous super-resolution and contrast synthesis of routine clinical magnetic resonance images of the knee for improving automatic segmentation of joint cartilage: data from the Osteoarthritis Initiative. <i>Medical Physics</i> , 2020, 47, 4939-4948.	1.6	6
1868	MetalQA: Deep Meta-Learning for No-Reference Image Quality Assessment. , 2020, , .		183
1869	Streaming 360-Degree Videos Using Super-Resolution. , 2020, , .		70
1870	Application of Spatio-Temporal Context and Convolution Neural Network (CNN) in Grooming Behavior of <i>Bactrocera minax</i> (Diptera: Trypetidae) Detection and Statistics. <i>Insects</i> , 2020, 11, 565.	1.0	17
1871	Unpaired Deep Learning for Accelerated MRI Using Optimal Transport Driven CycleGAN. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 1285-1296.	2.6	52
1872	Deep Back-ProjectiNetworks for Single Image Super-Resolution. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 4323-4337.	9.7	49
1873	Applying a Deep Learning Algorithm to Tsunami Inundation Database of Megathrust Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019690.	1.4	12
1874	An Image Denoising Method Based on Deep Residual GAN. <i>Journal of Physics: Conference Series</i> , 2020, 1550, 032127.	0.3	5
1875	Multi Scale-Adaptive Super-Resolution Person Re-Identification Using GAN. <i>IEEE Access</i> , 2020, 8, 177351-177362.	2.6	14
1876	Single Fundus Image Super-Resolution Via Cascaded Channel-Wise Attention Network. , 2020, 2020, 1984-1987.		3
1877	TransRes: A Deep Transfer Learning Approach to Migratable Image Super-Resolution in Remote Urban Sensing. , 2020, , .		11
1878	Learning a Single Model With a Wide Range of Quality Factors for JPEG Image Artifacts Removal. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 8842-8854.	6.0	27
1879	DiscoStyle: Multi-level Logistic Ranking for Personalized Image Style Preference Inference. <i>International Journal of Automation and Computing</i> , 2020, 17, 637-651.	4.5	8
1880	Multimodal Deep Unfolding for Guided Image Super-Resolution. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 8443-8456.	6.0	28
1881	Convergence of multiple deep neural networks for classification with fewer labeled data. <i>Personal and Ubiquitous Computing</i> , 2020, , 1.	1.9	1
1882	Deep Networks With Detail Enhancement for Infrared Image Super-Resolution. <i>IEEE Access</i> , 2020, 8, 158690-158701.	2.6	9
1883	MRI Super-Resolution using Laplacian Pyramid Convolutional Neural Networks with Isotropic Undecimated Wavelet Loss. , 2020, 2020, 1584-1587.		2
1884	An Encoder-Decoder Network Based FCN Architecture for Semantic Segmentation. <i>Wireless Communications and Mobile Computing</i> , 2020, 2020, 1-9.	0.8	20

#	ARTICLE	IF	CITATIONS
1885	Deep-learning-based image quality enhancement of compressed sensing magnetic resonance imaging of vessel wall: comparison of self-supervised and unsupervised approaches. Scientific Reports, 2020, 10, 13950.	1.6	30
1886	AdaCoF: Adaptive Collaboration of Flows for Video Frame Interpolation. , 2020, , .		138
1887	Nested Scale-Editing for Conditional Image Synthesis. , 2020, , .		3
1888	Learning Texture Transformer Network for Image Super-Resolution. , 2020, , .		486
1889	LSM: Learning Subspace Minimization for Low-Level Vision. , 2020, , .		13
1890	An Input-Perceptual Reconstruction Adversarial Network for Paired Image-to-Image Conversion. Sensors, 2020, 20, 4161.	2.1	2
1891	When to Use Convolutional Neural Networks for Inverse Problems. , 2020, , .		7
1892	Rethinking Data Augmentation for Image Super-resolution: A Comprehensive Analysis and a New Strategy. , 2020, , .		85
1893	A deep attention-based ensemble network for real-time face hallucination. Journal of Real-Time Image Processing, 2020, 17, 1927-1937.	2.2	1
1894	Fine-Grained Urban Flow Inference. IEEE Transactions on Knowledge and Data Engineering, 2020, , 1-1.	4.0	27
1895	Cost-Efficient Super-Resolution Hardware Using Local Binary Pattern Classification and Linear Mapping for Real-Time 4K Conversion. IEEE Access, 2020, 8, 224383-224393.	2.6	2
1896	UPSNet: Unsupervised Pan-Sharpening Network With Registration Learning Between Panchromatic and Multi-Spectral Images. IEEE Access, 2020, 8, 201199-201217.	2.6	19
1897	A residual dense network assisted sparse view reconstruction for breast computed tomography. Scientific Reports, 2020, 10, 21111.	1.6	13
1898	Adversarial Learning for Invertible Steganography. IEEE Access, 2020, 8, 198425-198435.	2.6	38
1899	A Convolutional Neural Network for Image Super-Resolution Using Internal Dataset. IEEE Access, 2020, 8, 201055-201070.	2.6	4
1900	FinSNet: End-to-End Separation of Overlapped Fingerprints Using Deep Learning. IEEE Access, 2020, 8, 209020-209029.	2.6	5
1901	Multi-Wavelet Residual Dense Convolutional Neural Network for Image Denoising. IEEE Access, 2020, 8, 214413-214424.	2.6	10
1902	Satellite Image Small Target Application Based on Deep Segmented Residual Neural Network. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
1903	Pairwise Learning to Rank for Image Quality Assessment. IEEE Access, 2020, 8, 192352-192367.	2.6	2
1904	Wavelet Based Deep Recursive Pyramid Convolution Residual Network for Single Image Rain Removal. IEEE Access, 2020, 8, 195870-195882.	2.6	3
1905	A High-Accuracy Hardware-Efficient Multiply-accumulate (MAC) Unit Based on Dual-Mode Truncation Error Compensation for CNNs. IEEE Access, 2020, 8, 214716-214731.	2.6	4
1906	Offset-Based In-Loop Filtering With a Deep Network in HEVC. IEEE Access, 2020, 8, 213958-213967.	2.6	6
1907	A Novel Framework for Enhancement of Diagnostic Information in MRI using Deep Super-Resolution. , 2020, , .		0
1908	Machine Learning Building Blocks for Real-Time Emulation of Advanced Transport Power Systems. IEEE Open Journal of Power Electronics, 2020, 1, 488-498.	4.0	14
1909	Super Resolution Enhancement of Satellite Remote Sensing Images of Transmission Tower Based on Multi-map Residual Network and Wavelet Transform. , 2020, , .		0
1910	Structure-based Optical Logics Without Using Transistors. , 2020, , .		0
1911	SRR-GAN: Super-Resolution based Recognition with GAN for Low-Resolved Text Images. , 2020, , .		3
1912	Generative Model-Driven Sampling Strategy for High Efficient Measurement of Complex Surfaces on Coordinate Measuring Machines. , 2020, , .		5
1913	BFRVSR: A Bidirectional Frame Recurrent Method for Video Super-Resolution. Applied Sciences (Switzerland), 2020, 10, 8749.	1.3	1
1914	Deeply Recursive Low- and High-Frequency Fusing Networks for Single Image Super-Resolution. Sensors, 2020, 20, 7268.	2.1	8
1915	Himawari-8 Aerosol Optical Depth (AOD) Retrieval Using a Deep Neural Network Trained Using AERONET Observations. Remote Sensing, 2020, 12, 4125.	1.8	31
1916	Progressive face super-resolution via learning prior information. Journal of Physics: Conference Series, 2020, 1651, 012127.	0.3	0
1917	Data-driven materials research enabled by natural language processing and information extraction. Applied Physics Reviews, 2020, 7, .	5.5	117
1918	A comparative study of convolutional neural network models for wind field downscaling. Meteorological Applications, 2020, 27, e1961.	0.9	40
1919	The face image super-resolution algorithm based on combined representation learning. Multimedia Tools and Applications, 2021, 80, 30839-30861.	2.6	59
1920	Fast Electron Tomography for Nanomaterials. Journal of Physical Chemistry C, 2020, 124, 27276-27286.	1.5	30

#	ARTICLE	IF	CITATIONS
1921	0.7-Resolution Electron Tomography Enabled by Deep Learning-Aided Information Recovery. Advanced Intelligent Systems, 2020, 2, 2000152.	3.3	22
1922	Pan-Sharpener Based On Parallel Pyramid Convolutional Neural Network. , 2020, , .		3
1923	Accurate MR image super-resolution via lightweight lateral inhibition network. Computer Vision and Image Understanding, 2020, 201, 103075.	3.0	8
1924	High-resolution industrial radiography using convolutional neural networks. Journal of Instrumentation, 2020, 15, C01025-C01025.	0.5	0
1925	Optimizing Deep Learning Based Channel Estimation using Channel Response Arrangement. , 2020, , .		2
1926	Fakd: Feature-Affinity Based Knowledge Distillation for Efficient Image Super-Resolution. , 2020, , .		33
1927	Frequency Domain-Based Perceptual Loss for Super Resolution. , 2020, , .		3
1928	From Planetscope To Worldview: Micro-Satellite Image Super-Resolution With Optimal Transport Distance. , 2020, , .		1
1929	Super-resolving Tiny Faces with Face Feature Vectors. , 2020, , .		2
1930	Text to Realistic Image Generation Using Stackgan. , 2020, , .		0
1931	Fully Convolutional Network for Removing DCT Artefacts From Images. , 2020, , .		5
1932	EFFRBNNet: A Deep Super Resolution Network using Edge-Assisted Feature Fusion Residual Blocks. , 2020, , .		5
1933	Spectral-Fidelity Convolutional Neural Networks for Hyperspectral Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5898-5914.	2.3	32
1934	GrateTile: Efficient Sparse Tensor Tiling for CNN Processing. , 2020, , .		2
1935	Joint restoration convolutional neural network for low-quality image super resolution. Visual Computer, 2022, 38, 31-50.	2.5	9
1936	Pan-sharpening via multi-scale and multiple deep neural networks. Signal Processing: Image Communication, 2020, 85, 115850.	1.8	11
1937	Notice of Violation of IEEE Publication Principles: HopNet based Associative Memory as FC layer in CNN for Odia Character Classification. , 2020, , .		2
1938	A Fast and Accurate Super-Resolution Network Using Progressive Residual Learning. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
1939	Generating High-Quality Air-Coupled Ultrasonic Images for Wooden Material Characterization by Single Image Super-Resolution. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2054008.	0.7	0
1940	DCM-CNN: Densely Connected Multiloss Convolutional Neural Networks for Light Field View Synthesis. IEEE Access, 2020, 8, 78542-78552.	2.6	2
1941	Time-Frequency Loss for CNN Based Speech Super-Resolution. , 2020, , .		13
1942	A contextual conditional random field network for monocular depth estimation. Image and Vision Computing, 2020, 98, 103922.	2.7	5
1943	Pan-GAN: An unsupervised pan-sharpening method for remote sensing image fusion. Information Fusion, 2020, 62, 110-120.	11.7	276
1944	Wavelet based medical image super resolution using cross connected residual-in-dense grouped convolutional neural network. Journal of Visual Communication and Image Representation, 2020, 70, 102819.	1.7	10
1945	Efficient Training Procedures for Multi-Spectral Demosaicing. Sensors, 2020, 20, 2850.	2.1	0
1946	Small-Object Detection in Remote Sensing Images with End-to-End Edge-Enhanced GAN and Object Detector Network. Remote Sensing, 2020, 12, 1432.	1.8	148
1947	Artifact removal using a hybrid-domain convolutional neural network for limited-angle computed tomography imaging. Physics in Medicine and Biology, 2020, 65, 155010.	1.6	40
1948	Detailed investigation of deep features with sparse representation and dimensionality reduction in CBIR: A comparative study. Intelligent Data Analysis, 2020, 24, 47-68.	0.4	23
1949	Optimized highway deep learning network for fast single image super-resolution reconstruction. Journal of Real-Time Image Processing, 2020, 17, 1961-1970.	2.2	5
1950	Parsing Map Guided Multi-Scale Attention Network For Face Hallucination. , 2020, , .		10
1951	Single MR-image super-resolution based on convolutional sparse representation. Signal, Image and Video Processing, 2020, 14, 1525-1533.	1.7	6
1952	Hyperspectral and Multispectral Image Fusion via Nonlocal Low-Rank Tensor Decomposition and Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7654-7671.	2.7	27
1953	SICNN: Spatial Interpolation with Convolutional Neural Networks for Radio Environment Mapping. , 2020, , .		18
1954	Fast simultaneous image super-resolution and motion deblurring with decoupled cooperative learning. Journal of Real-Time Image Processing, 2020, 17, 1787-1800.	2.2	6
1955	Deep residual networks with a fully connected reconstruction layer for single image super-resolution. Neurocomputing, 2020, 405, 186-199.	3.5	10
1956	Deep learning from label proportions with labeled samples. Neural Networks, 2020, 128, 73-81.	3.3	7

#	ARTICLE	IF	CITATIONS
1957	Optimizing Image Compression With Deep Super-Resolution Techniques. IEEE Consumer Electronics Magazine, 2020, 9, 91-101.	2.3	1
1958	Infrared image super-resolution via discriminative dictionary and deep residual network. Infrared Physics and Technology, 2020, 107, 103314.	1.3	9
1959	Image Quality Enhancement with Machine Learning Based Multi-Step Super-Resolution. , 2020, , .		0
1960	Mixed 2D/3D Convolutional Network for Hyperspectral Image Super-Resolution. Remote Sensing, 2020, 12, 1660.	1.8	79
1961	Multi-scale single image rain removal using a squeeze-and-excitation residual network. Applied Soft Computing Journal, 2020, 92, 106296.	4.1	5
1962	High-fidelity View Synthesis for Light Field Imaging With Extended Pseudo 4DCNN. IEEE Transactions on Computational Imaging, 2020, 6, 830-842.	2.6	22
1963	Deep super resolution crack network (SrcNet) for improving computer vision-based automated crack detectability in in situ bridges. Structural Health Monitoring, 2021, 20, 1428-1442.	4.3	44
1964	Deep learning for fabrication and maturation of 3D bioprinted tissues and organs. Virtual and Physical Prototyping, 2020, 15, 340-358.	5.3	79
1965	Defocus Blur Detection by Fusing Multiscale Deep Features With Conv-LSTM. IEEE Access, 2020, 8, 97279-97288.	2.6	2
1966	High-quality interferometric inverse synthetic aperture radar imaging using deep convolutional networks. Microwave and Optical Technology Letters, 2020, 62, 3060-3065.	0.9	4
1967	Quality Prediction on Deep Generative Images. IEEE Transactions on Image Processing, 2020, 29, 5964-5979.	6.0	20
1968	BPGAN: Bidirectional CT-to-MRI prediction using multi-generative multi-adversarial nets with spectral normalization and localization. Neural Networks, 2020, 128, 82-96.	3.3	22
1969	Guided Dual Networks for Single Image Super-Resolution. IEEE Access, 2020, 8, 93608-93620.	2.6	5
1970	Dynamic response reconstruction for structural health monitoring using densely connected convolutional networks. Structural Health Monitoring, 2021, 20, 1373-1391.	4.3	46
1971	Underwater image enhancement with global-local networks and compressed-histogram equalization. Signal Processing: Image Communication, 2020, 86, 115892.	1.8	107
1972	A generative adversarial network with structural enhancement and spectral supplement for pan-sharpening. Neural Computing and Applications, 2020, 32, 18347-18359.	3.2	3
1973	Hierarchical dense recursive network for image super-resolution. Pattern Recognition, 2020, 107, 107475.	5.1	144
1974	Robust Prior-Based Single Image Super Resolution Under Multiple Gaussian Degradations. IEEE Access, 2020, 8, 74195-74204.	2.6	3

#	ARTICLE	IF	CITATIONS
1975	Deep Learning Techniques for Inverse Problems in Imaging. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 39-56.	1.9	292
1976	A robust face super-resolution algorithm and its application in low-resolution face recognition system. Multimedia Tools and Applications, 2020, 79, 23909-23934.	2.6	19
1977	Lightweight multi-scale residual networks with attention for image super-resolution. Knowledge-Based Systems, 2020, 203, 106103.	4.0	36
1978	Deep Learning-Based Single Image Super-Resolution: An Investigation for Dense Scene Reconstruction with UAS Photogrammetry. Remote Sensing, 2020, 12, 1757.	1.8	21
1979	Image super-resolution reconstruction based on sparse representation and deep learning. Signal Processing: Image Communication, 2020, 87, 115925.	1.8	26
1980	NUICNet: Non-Uniform Illumination Correction for Underwater Image Using Fully Convolutional Network. IEEE Access, 2020, 8, 109989-110002.	2.6	16
1982	CT kernel conversions using convolutional neural net for super-resolution with simplified squeeze-and-excitation blocks and progressive learning among smooth and sharp kernels. Computer Methods and Programs in Biomedicine, 2020, 196, 105615.	2.6	7
1983	PET Image Reconstruction Using a Cascading Back-Projection Neural Network. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 1100-1111.	7.3	16
1984	<i>Uni-OPU</i>: An FPGA-Based Uniform Accelerator for Convolutional and Transposed Convolutional Networks. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1545-1556.	2.1	34
1985	End-to-End Image Super-Resolution via Generative Adversarial Network. IOP Conference Series: Materials Science and Engineering, 2020, 768, 072063.	0.3	1
1986	Image Super-Resolution Using Residual Global Context Network. , 2020, , .		0
1987	Per-Image Super-Resolution for Material BTFs. , 2020, , .		0
1988	Predicting drug-drug interactions using multi-modal deep auto-encoders based network embedding and positive-unlabeled learning. Methods, 2020, 179, 37-46.	1.9	49
1989	Unsupervised Image-to-Image Translation with Self-Attention Networks. , 2020, , .		16
1990	A New Single-Image Super-Resolution Using Efficient Feature Fusion and Patch Similarity in Non-Euclidean Space. Arabian Journal for Science and Engineering, 2020, 45, 10261-10285.	1.7	6
1991	Enhanced generative adversarial network for 3D brain MRI super-resolution. , 2020, , .		36
1992	Introduction to deep learning: minimum essence required to launch a research. Japanese Journal of Radiology, 2020, 38, 907-921.	1.0	14
1993	Image Restoration via Deep Memory-Based Latent Attention Network. IEEE Access, 2020, 8, 104728-104739.	2.6	6



#	ARTICLE	IF	CITATIONS
1994	Deep Learning for Prediction of the Air Quality Response to Emission Changes. Environmental Science & Technology, 2020, 54, 8589-8600.	4.6	58
1995	Deep learning for high-resolution and high-sensitivity interferometric phase contrast imaging. Scientific Reports, 2020, 10, 9891.	1.6	10
1996	Multiple-Image Super-Resolution for Networked Extremely Low-Resolution Thermal Sensor Array. , 2020, , .		7
1997	A deep learning-aided temporal spectral ChannelNet for IEEE 802.11p-based channel estimation in vehicular communications. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	7
1998	Generative adversarial classifier for handwriting characters super-resolution. Pattern Recognition, 2020, 107, 107453.	5.1	22
1999	An Efficient Deep Unsupervised Superresolution Model for Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1937-1945.	2.3	11
2000	Learning From Synthetic Images via Active Pseudo-Labeling. IEEE Transactions on Image Processing, 2020, 29, 6452-6465.	6.0	24
2001	4DFlowNet: Super-Resolution 4D Flow MRI Using Deep Learning and Computational Fluid Dynamics. Frontiers in Physics, 2020, 8, .	1.0	61
2002	Multimodal medical image fusion using deep learning. , 2020, , 35-56.		6
2004	Learning Algorithms for Coarsening Uncertainty Space and Applications to Multiscale Simulations. Mathematics, 2020, 8, 720.	1.1	8
2005	Adaptive Contrast Enhancement of Optical Imagery Based on Level of Detail (LOD). Remote Sensing, 2020, 12, 1555.	1.8	1
2006	Integration of Sentinel-1 and Sentinel-2 Data for Land Cover Mapping Using W-Net. Sensors, 2020, 20, 2969.	2.1	23
2007	Generative adversarial network-based super-resolution of diffusion-weighted imaging: Application to tumour radiomics in breast cancer. NMR in Biomedicine, 2020, 33, e4345.	1.6	19
2008	CT Image Super Resolution Based On Improved SRGAN. , 2020, , .		5
2009	Hierarchical Neural Architecture Search for Single Image Super-Resolution. IEEE Signal Processing Letters, 2020, 27, 1255-1259.	2.1	31
2010	Super resolution convolutional neural network for feature extraction in spectroscopic data. Review of Scientific Instruments, 2020, 91, 033905.	0.6	15
2011	An image compressed sensing algorithm based on adaptive nonlinear network*. Chinese Physics B, 2020, 29, 054203.	0.7	3
2012	Improving Diagnostic Accuracy in Low-Dose SPECT Myocardial Perfusion Imaging With Convolutional Denoising Networks. IEEE Transactions on Medical Imaging, 2020, 39, 2893-2903.	5.4	59



#	ARTICLE	IF	CITATIONS
2013	RSDCN: A Road Semantic Guided Sparse Depth Completion Network. <i>Neural Processing Letters</i> , 2020, 51, 2737-2749.	2.0	6
2014	Residual learning based densely connected deep dilated network for joint deblocking and super resolution. <i>Applied Intelligence</i> , 2020, 50, 2177-2193.	3.3	9
2015	A CNN recognition method for early stage of 10kV single core cable based on sheath current. <i>Electric Power Systems Research</i> , 2020, 184, 106292.	2.1	10
2016	Thick cloud and cloud shadow removal in multitemporal imagery using progressively spatio-temporal patch group deep learning. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 162, 148-160.	4.9	92
2017	Multi-Resolution Space-Attended Residual Dense Network for Single Image Super-Resolution. <i>IEEE Access</i> , 2020, 8, 40499-40511.	2.6	8
2018	Edge-Guided Depth Image Super-Resolution Based on KSVD. <i>IEEE Access</i> , 2020, 8, 41108-41115.	2.6	6
2019	MRI Visualization of Whole Brain Macro- and Microvascular Remodeling in a Rat Model of Ischemic Stroke: A Pilot Study. <i>Scientific Reports</i> , 2020, 10, 4989.	1.6	14
2020	Convolutional Neural Networks Using Skip Connections with Layer Groups for Super-Resolution Image Reconstruction Based on Deep Learning. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1959.	1.3	15
2021	Dynamic Scene Deblurring by Depth Guided Model. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 5273-5288.	6.0	29
2022	Deep Learning for Image Super-Resolution: A Survey. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 3365-3387.	9.7	774
2023	Adversarial Confidence Learning for Medical Image Segmentation and Synthesis. <i>International Journal of Computer Vision</i> , 2020, 128, 2494-2513.	10.9	29
2024	Computed Tomography 3D Super-Resolution with Generative Adversarial Neural Networks: Implications on Unsaturated and Two-Phase Fluid Flow. <i>Materials</i> , 2020, 13, 1397.	1.3	28
2025	Shallow-Deep Convolutional Network and Spectral-Discrimination-Based Detail Injection for Multispectral Imagery Pan-Sharpener. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 1772-1783.	2.3	30
2026	Generative Adversarial Network-Based Super-Resolution Considering Quantitative and Perceptual Quality. <i>Symmetry</i> , 2020, 12, 449.	1.1	2
2027	Single Image Super-Resolution Using Fire Modules With Asymmetric Configuration. <i>IEEE Signal Processing Letters</i> , 2020, 27, 516-519.	2.1	8
2028	Densely connected multi-scale de-raining net. <i>Multimedia Tools and Applications</i> , 2020, 79, 19595-19614.	2.6	4
2029	An end-to-end dehazing network with transitional convolution layer. <i>Multidimensional Systems and Signal Processing</i> , 2020, 31, 1603-1623.	1.7	4
2030	Improved face super-resolution generative adversarial networks. <i>Machine Vision and Applications</i> , 2020, 31, 1.	1.7	19

#	ARTICLE	IF	CITATIONS
2031	Color-Guided Depth Map Super-Resolution Using a Dual-Branch Multi-Scale Residual Network with Channel Interaction. <i>Sensors</i> , 2020, 20, 1560.	2.1	4
2032	Single Remote Sensing Image Super-Resolution with an Adaptive Joint Constraint Model. <i>Sensors</i> , 2020, 20, 1276.	2.1	3
2033	Portable deep learning singlet microscope. <i>Journal of Biophotonics</i> , 2020, 13, e202000013.	1.1	8
2034	A Novel and Effective Image Super-Resolution Reconstruction Technique via Fast Global and Local Residual Learning Model. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1856.	1.3	10
2035	FedMEC: Improving Efficiency of Differentially Private Federated Learning via Mobile Edge Computing. <i>Mobile Networks and Applications</i> , 2020, 25, 2421-2433.	2.2	27
2036	Versatile Video Coding and Super-Resolution for Efficient Delivery of 8k Video with 4k Backward-Compatibility. , 2020, , .		4
2037	Rapid image deconvolution and multiview fusion for optical microscopy. <i>Nature Biotechnology</i> , 2020, 38, 1337-1346.	9.4	105
2038	A New Deep Learning Network for Mitigating Limited-view and Under-sampling Artifacts in Ring-shaped Photoacoustic Tomography. <i>Computerized Medical Imaging and Graphics</i> , 2020, 84, 101720.	3.5	32
2039	Development of a Real-Time Emotion Recognition System Using Facial Expressions and EEG based on machine learning and deep neural network methods. <i>Informatics in Medicine Unlocked</i> , 2020, 20, 100372.	1.9	121
2040	Super-Resolution of License Plate Images via Character-Based Perceptual Loss. , 2020, , .		4
2041	High-precision SNR Estimation by CNN using PSD Image for Adaptive Modulation and Coding. , 2020, , .		6
2042	High-resolution bathymetry by deep-learning-based image superresolution. <i>PLoS ONE</i> , 2020, 15, e0235487.	1.1	16
2043	Adversarial super-resolution of climatological wind and solar data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16805-16815.	3.3	92
2044	Recent progress in machine learning applications in reservoir simulation. , 2020, , 259-288.		1
2045	E-ProSRNet: An enhanced progressive single image super-resolution approach. <i>Computer Vision and Image Understanding</i> , 2020, 200, 103038.	3.0	6
2046	Super-resolution reconstruction of real infrared images acquired with unmanned aerial vehicle. <i>PLoS ONE</i> , 2020, 15, e0234775.	1.1	4
2047	Efficient Processing of Deep Neural Networks. <i>Synthesis Lectures on Computer Architecture</i> , 2020, 15, 1-341.	1.3	72
2048	Residual network with detail perception loss for single image super-resolution. <i>Computer Vision and Image Understanding</i> , 2020, 199, 103007.	3.0	13

#	ARTICLE	IF	CITATIONS
2049	NLDN: Non-local dehazing network for dense haze removal. <i>Neurocomputing</i> , 2020, 410, 363-373.	3.5	48
2050	Learning Spatial-Spectral Prior for Super-Resolution of Hyperspectral Imagery. <i>IEEE Transactions on Computational Imaging</i> , 2020, 6, 1082-1096.	2.6	123
2051	Compressed Image Restoration via Artifacts-Free PCA Basis Learning and Adaptive Sparse Modeling. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 7399-7413.	6.0	12
2052	Pansharpening via Unsupervised Convolutional Neural Networks. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 4295-4310.	2.3	52
2053	Hyperspectral Image Super-Resolution Using Optimization and DCNN-Based Methods. , 0, , .		1
2054	Fast and efficient implementation of image filtering using a side window convolutional neural network. <i>Signal Processing</i> , 2020, 176, 107717.	2.1	18
2055	Semi-supervised Adversarial Domain Adaptation for Seagrass Detection Using Multispectral Images in Coastal Areas. <i>Data Science and Engineering</i> , 2020, 5, 111-125.	4.6	13
2056	Monitoring early stage invasion of exotic <i>Spartina alterniflora</i> using deep-learning super-resolution techniques based on multisource high-resolution satellite imagery: A case study in the Yellow River Delta, China. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 92, 102180.	1.4	22
2057	A Light Weight Convolutional Neural Network for Single Image Super-Resolution. <i>Procedia Computer Science</i> , 2020, 171, 139-147.	1.2	6
2058	Modified Dual Path Network With Transform Domain Data for Image Super-Resolution. <i>IEEE Access</i> , 2020, 8, 97975-97985.	2.6	2
2059	MGHCNET: A Deep Multi-Scale Granular and Holistic Channel Feature Generation Network for Image Super Resolution. , 2020, , .		7
2060	Improving Spatial Resolution of Multispectral Rock Outcrop Images Using RGB Data and Artificial Neural Networks. <i>Sensors</i> , 2020, 20, 3559.	2.1	3
2061	High performance reconfigurable computing for numerical simulation and deep learning. <i>CCF Transactions on High Performance Computing</i> , 2020, 2, 196-208.	1.1	2
2062	ComSupResNet: A Compact Super-Resolution Network for Low-Resolution Face Images. , 2020, , .		1
2063	Biprediction-Based Video Quality Enhancement via Learning. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 1207-1220.	6.2	9
2064	Supervised Pixel-Wise GAN for Face Super-Resolution. <i>IEEE Transactions on Multimedia</i> , 2021, 23, 1938-1950.	5.2	39
2065	Multilevel dense neural network for pan-sharpening. <i>International Journal of Remote Sensing</i> , 2020, 41, 7217-7232.	1.3	4
2066	Depth Density Achieves a Better Result for Semantic Segmentation with the Kinect System. <i>Sensors</i> , 2020, 20, 812.	2.1	4

#	ARTICLE	IF	CITATIONS
2067	Super-resolution Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2020, 92, 3958-3963.	3.2	12
2068	The effect of downsampling&#x2014;upsampling strategy on foreground detection algorithms. <i>Artificial Intelligence Review</i> , 2020, 53, 4935-4965.	9.7	2
2069	SD-GAN: Saliency-Discriminated GAN for Remote Sensing Image Superresolution. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1973-1977.	1.4	14
2070	ChannelNets: Compact and Efficient Convolutional Neural Networks via Channel-Wise Convolutions. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020, 43, 1-1.	9.7	23
2071	Deep quantification down-plain-upsampling residual learning for single image super-resolution. <i>International Journal of Machine Learning and Cybernetics</i> , 2020, 11, 1923-1937.	2.3	2
2072	Unsupervised image-to-image translation using intra-domain reconstruction loss. <i>International Journal of Machine Learning and Cybernetics</i> , 2020, 11, 2077-2088.	2.3	6
2073	A Novel Counterfeit Feature Extraction Technique for Exposing Face-Swap Images Based on Deep Learning and Error Level Analysis. <i>Entropy</i> , 2020, 22, 249.	1.1	31
2074	CNN-Based Super-Resolution of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 6106-6121.	2.7	52
2075	Artificial Generation of Partial Discharge Sources Through an Algorithm Based on Deep Convolutional Generative Adversarial Networks. <i>IEEE Access</i> , 2020, 8, 24561-24575.	2.6	18
2076	Part-Based Enhanced Super Resolution Network for Low-Resolution Person Re-Identification. <i>IEEE Access</i> , 2020, 8, 57594-57605.	2.6	4
2077	An Unsupervised Remote Sensing Single-Image Super-Resolution Method Based on Generative Adversarial Network. <i>IEEE Access</i> , 2020, 8, 29027-29039.	2.6	17
2078	Frequency Separation Network for Image Super-Resolution. <i>IEEE Access</i> , 2020, 8, 33768-33777.	2.6	10
2079	Image Super-Resolution Reconstruction Using Generative Adversarial Networks Based on Wide-Channel Activation. <i>IEEE Access</i> , 2020, 8, 33838-33854.	2.6	7
2080	ResLap: Generating High-Resolution Climate Prediction Through Image Super-Resolution. <i>IEEE Access</i> , 2020, 8, 39623-39634.	2.6	24
2081	Noninterpretive Uses of Artificial Intelligence in Radiology. <i>Academic Radiology</i> , 2021, 28, 1225-1235.	1.3	53
2082	Super-resolution of real-world rock microcomputed tomography images using cycle-consistent generative adversarial networks. <i>Physical Review E</i> , 2020, 101, 023305.	0.8	48
2083	Wavelet-Based Enhanced Medical Image Super Resolution. <i>IEEE Access</i> , 2020, 8, 37035-37044.	2.6	25
2084	Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 7314-7325.	5.9	5

#	ARTICLE	IF	CITATIONS
2085	Blind de-convolution of images degraded by atmospheric turbulence. Applied Soft Computing Journal, 2020, 89, 106131.	4.1	17
2086	Research on Hyperspectral Image Reconstruction Based on GISMT Compressed Sensing and Interspectral Prediction. International Journal of Optics, 2020, 2020, 1-11.	0.6	3
2087	Sparse seismic deconvolution via recurrent neural network. Journal of Applied Geophysics, 2020, 175, 103979.	0.9	6
2088	Multi-Contrast Super-Resolution MRI Through a Progressive Network. IEEE Transactions on Medical Imaging, 2020, 39, 2738-2749.	5.4	88
2089	A Remote-Sensing Image Pan-Sharpening Method Based on Multi-Scale Channel Attention Residual Network. IEEE Access, 2020, 8, 27163-27177.	2.6	20
2090	Learned Image Downscaling for Upscaling Using Content Adaptive Resampler. IEEE Transactions on Image Processing, 2020, 29, 4027-4040.	6.0	101
2091	Combining synthesis sparse with analysis sparse for single image super-resolution. Signal Processing: Image Communication, 2020, 83, 115805.	1.8	10
2092	HAM-MFN: Hyperspectral and Multispectral Image Multiscale Fusion Network With RAP Loss. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4618-4628.	2.7	43
2093	Convolutional neural networks based focal loss for class imbalance problem: a case study of canine red blood cells morphology classification. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 15259-15275.	3.3	35
2094	MODEL: Motif-Based Deep Feature Learning for Link Prediction. IEEE Transactions on Computational Social Systems, 2020, 7, 503-516.	3.2	33
2095	Deep Learning Inversion of Electrical Resistivity Data. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5715-5728.	2.7	121
2096	Identity-Preserving Face Hallucination via Deep Reinforcement Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4796-4809.	5.6	11
2097	Can learning from natural image denoising be used for seismic data interpolation?. Geophysics, 2020, 85, WA115-WA136.	1.4	71
2098	Accuracy improvement of quantification information using super-resolution with convolutional neural network for microscopy images. Biomedical Signal Processing and Control, 2020, 58, 101846.	3.5	14
2099	Two-Stage Sketch Colorization With Color Parsing. IEEE Access, 2020, 8, 44599-44610.	2.6	25
2100	Global-local fusion network for face super-resolution. Neurocomputing, 2020, 387, 309-320.	3.5	26
2101	Pixel-wise dictionary learning based locality-constrained representation for noise robust face hallucination. , 2020, 99, 102667.		8
2102	A Two-Branch Convolution Residual Network for Image Compressive Sensing. IEEE Access, 2020, 8, 1705-1714.	2.6	4

#	ARTICLE	IF	CITATIONS
2103	Towards Privacy-Preserving Ego-Motion Estimation Using an Extremely Low-Resolution Camera. IEEE Robotics and Automation Letters, 2020, 5, 1223-1230.	3.3	4
2104	Feature Consistency Training With JPEG Compressed Images. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4769-4780.	5.6	11
2105	Soft-tissue radiography using multi-scale convolutional neural networks. Journal of Instrumentation, 2020, 15, C01028-C01028.	0.5	1
2106	A unified deep network for beamforming and speckle reduction in plane wave imaging: A simulation study. Ultrasonics, 2020, 103, 106069.	2.1	11
2107	Face hallucination with K-means++ dictionary learning. Multimedia Tools and Applications, 2020, 79, 11685-11698.	2.6	0
2108	Single image dehazing based on learning of haze layers. Neurocomputing, 2020, 389, 108-122.	3.5	26
2109	Deep-Learning Inversion of Seismic Data. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2135-2149.	2.7	212
2110	E-DBPN: Enhanced Deep Back-Projection Networks for Remote Sensing Scene Image Superresolution. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5503-5515.	2.7	16
2111	Age Estimation by Super-Resolution Reconstruction Based on Adversarial Networks. IEEE Access, 2020, 8, 17103-17120.	2.6	22
2112	Brain MRI Super-Resolution Using 3D Dilated Convolutional Encoder-Decoder Network. IEEE Access, 2020, 8, 18938-18950.	2.6	28
2113	MRI Super-Resolution With Ensemble Learning and Complementary Priors. IEEE Transactions on Computational Imaging, 2020, 6, 615-624.	2.6	64
2114	Super-Resolution PET Imaging Using Convolutional Neural Networks. IEEE Transactions on Computational Imaging, 2020, 6, 518-528.	2.6	53
2115	Hyperspectral Image Super-Resolution by Band Attention Through Adversarial Learning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4304-4318.	2.7	60
2116	Analysis of Images, Social Networks and Texts. Communications in Computer and Information Science, 2020, , .	0.4	1
2117	Assessing the importance of magnetic resonance contrasts using collaborative generative adversarial networks. Nature Machine Intelligence, 2020, 2, 34-42.	8.3	31
2118	Super resolution of single depth image based on multi-dictionary learning with edge feature regularization. Multimedia Tools and Applications, 2020, 79, 34813-34834.	2.6	0
2119	SACNN: Self-Attention Convolutional Neural Network for Low-Dose CT Denoising With Self-Supervised Perceptual Loss Network. IEEE Transactions on Medical Imaging, 2020, 39, 2289-2301.	5.4	170
2120	Focusing light through scattering media by reinforced hybrid algorithms. APL Photonics, 2020, 5, .	3.0	38

#	ARTICLE	IF	CITATIONS
2121	Remote-Sensing Image Superresolution Based on Visual Saliency Analysis and Unequal Reconstruction Networks. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4099-4115.	2.7	12
2122	Hyperspectral Image Classification With Convolutional Neural Network and Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4604-4616.	2.7	214
2123	Scene-Adaptive Remote Sensing Image Super-Resolution Using a Multiscale Attention Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4764-4779.	2.7	71
2124	PET image super-resolution using generative adversarial networks. Neural Networks, 2020, 125, 83-91.	3.3	64
2125	Split-Attention Multiframe Alignment Network for Image Restoration. IEEE Access, 2020, 8, 39254-39272.	2.6	9
2126	Super-Resolution Reconstruction Method of Remote Sensing Image Based on Multi-Feature Fusion. IEEE Access, 2020, 8, 18764-18771.	2.6	16
2127	Optical coherence tomography image denoising using a generative adversarial network with speckle modulation. Journal of Biophotonics, 2020, 13, e201960135.	1.1	46
2128	Accurate single image super-resolution using multi-path wide-activated residual network. Signal Processing, 2020, 172, 107567.	2.1	17
2129	Joint-SRVDNet: Joint Super Resolution and Vehicle Detection Network. IEEE Access, 2020, 8, 82306-82319.	2.6	30
2130	High Quality Training Set Collection using Generative Adversarial Network. , 2020, , .		1
2131	Hyperspectral Image Super-Resolution via Intrafusion Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7459-7471.	2.7	48
2132	A Novel Multisupervised Coupled Metric Learning for Low-Resolution Face Matching. Advances in Multimedia, 2020, 2020, 1-13.	0.2	1
2133	Spectrum Correction Using Modeled Panchromatic Image for Pansharpening. Journal of Imaging, 2020, 6, 20.	1.7	2
2134	Coupled Real-Synthetic Domain Adaptation for Real-World Deep Depth Enhancement. IEEE Transactions on Image Processing, 2020, , 1-1.	6.0	13
2135	Deeply self-supervised contour embedded neural network applied to liver segmentation. Computer Methods and Programs in Biomedicine, 2020, 192, 105447.	2.6	21
2136	Residual Attention Network for Wavelet Domain Super-Resolution. , 2020, , .		2
2137	LED-Based Photoacoustic Imaging. Progress in Optical Science and Photonics, 2020, , .	0.3	17
2138	Brief Survey of Single Image Super-Resolution Reconstruction Based on Deep Learning Approaches. Sensing and Imaging, 2020, 21, 1.	1.0	13



#	ARTICLE	IF	CITATIONS
2139	A new sensor bias-driven spatio-temporal fusion model based on convolutional neural networks. Science China Information Sciences, 2020, 63, 1.	2.7	47
2140	Deep multi-person kinship matching and recognition for family photos. Pattern Recognition, 2020, 105, 107342.	5.1	14
2141	A high-speed atomic force microscopy with super resolution based on path planning scanning. Ultramicroscopy, 2020, 213, 112991.	0.8	14
2142	Learning to synthesize: robust phase retrieval at low photon counts. Light: Science and Applications, 2020, 9, 36.	7.7	46
2143	Multi-resolution convolutional neural networks for inverse problems. Scientific Reports, 2020, 10, 5730.	1.6	17
2144	ESRGAN+ : Further Improving Enhanced Super-Resolution Generative Adversarial Network. , 2020, , .		95
2145	Adaptive Resolution Change Using Uncoded Areas and Dictionary Learning-Based Super-Resolution in Versatile Video Coding. , 2020, , .		0
2146	A Dual Camera System for High Spatiotemporal Resolution Video Acquisition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3275-3291.	9.7	13
2147	Convolutional Neural Networks With Intermediate Loss for 3D Super-Resolution of CT and MRI Scans. IEEE Access, 2020, 8, 49112-49124.	2.6	42
2148	Deep Residual Autoencoder for Blind Universal JPEG Restoration. IEEE Access, 2020, 8, 63283-63294.	2.6	19
2149	Image Inpainting Based on Inside-Outside Attention and Wavelet Decomposition. IEEE Access, 2020, 8, 62343-62355.	2.6	7
2150	An Application of Super-Resolution Generative Adversary Networks for Quasi-Static Ultrasound Strain Elastography: A Feasibility Study. IEEE Access, 2020, 8, 65769-65779.	2.6	8
2151	Lightweight Super-Resolution Using Deep Neural Learning. IEEE Transactions on Broadcasting, 2020, 66, 814-823.	2.5	18
2152	Hallucinating Color Face Image by Learning Graph Representation in Quaternion Space. IEEE Transactions on Cybernetics, 2022, 52, 265-277.	6.2	9
2153	Learning Content-Weighted Deep Image Compression. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3446-3461.	9.7	30
2154	Super-Resolution for Hyperspectral Remote Sensing Images Based on the 3D Attention-SRGAN Network. Remote Sensing, 2020, 12, 1204.	1.8	21
2155	Mechanism for Removal of Rain From Digital Images. , 2020, , .		0
2156	Improved SRGAN for Remote Sensing Image Super-Resolution Across Locations and Sensors. Remote Sensing, 2020, 12, 1263.	1.8	38



#	ARTICLE	IF	CITATIONS
2157	Information Management and Big Data. Communications in Computer and Information Science, 2020, , .	0.4	2
2158	MLDNet: Multi-level dense network for multi-focus image fusion. Signal Processing: Image Communication, 2020, 85, 115864.	1.8	16
2159	Adversarial Text Image Super-Resolution using Sinkhorn Distance. , 2020, , .		3
2160	Deep Learning Single-Frame and Multiframe Super-Resolution for Cardiac MRI. Radiology, 2020, 295, 552-561.	3.6	74
2161	Facial Image Synthesis and Super-Resolution With Stacked Generative Adversarial Network. Neurocomputing, 2020, 402, 359-365.	3.5	14
2162	Bilateral Recurrent Network for Single Image Deraining. , 2020, , .		2
2163	Efficient multiquality super-resolution using a deep convolutional neural network for an FPGA implementation. Journal of the Society for Information Display, 2020, 28, 428-439.	0.8	1
2164	Single-image super-resolution with multilevel residual attention network. Neural Computing and Applications, 2020, 32, 15615-15628.	3.2	8
2165	A survey of the recent architectures of deep convolutional neural networks. Artificial Intelligence Review, 2020, 53, 5455-5516.	9.7	1,454
2166	Improved myocardial perfusion PET imaging using artificial neural networks. Physics in Medicine and Biology, 2020, 65, 145010.	1.6	7
2167	Temporarily-Aware Context Modeling Using Generative Adversarial Networks for Speech Activity Detection. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1159-1169.	4.0	6
2168	Image Magnification Based on Bicubic Approximation with Edge as Constraint. Applied Sciences (Switzerland), 2020, 10, 1865.	1.3	0
2169	BR <sup>2</sup> Net: Defocus Blur Detection Via a Bidirectional Channel Attention Residual Refining Network. IEEE Transactions on Multimedia, 2021, 23, 624-635.	5.2	34
2170	Back-projection-based progressive growing generative adversarial network for single image super-resolution. Visual Computer, 2021, 37, 925-938.	2.5	15
2171	MADNet: A Fast and Lightweight Network for Single-Image Super Resolution. IEEE Transactions on Cybernetics, 2021, 51, 1443-1453.	6.2	175
2172	Learning Representations for High-Dynamic-Range Image Color Transfer in a Self-Supervised Way. IEEE Transactions on Multimedia, 2021, 23, 176-188.	5.2	23
2173	Continuous Image Generation From Low-Update-Rate Images and Physical Sensors Through a Conditional GAN for Robot Teleoperation. IEEE Transactions on Industrial Informatics, 2021, 17, 1978-1986.	7.2	5
2174	A Large-Scale Benchmark Data Set for Evaluating Pansharpener Performance: Overview and Implementation. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 18-52.	4.9	92

#	ARTICLE	IF	CITATIONS
2175	Super-Resolution of VIIRS-Measured Ocean Color Products Using Deep Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 114-127.	2.7	11
2176	Coarse-to-Fine CNN for Image Super-Resolution. IEEE Transactions on Multimedia, 2021, 23, 1489-1502.	5.2	122
2177	Frequency-Dependent Depth Map Enhancement via Iterative Depth-Guided Affine Transformation and Intensity-Guided Refinement. IEEE Transactions on Multimedia, 2021, 23, 772-783.	5.2	16
2178	Deep Multiscale Detail Networks for Multiband Spectral Image Sharpening. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2090-2104.	7.2	90
2179	Revisiting Spatio-Angular Trade-off in Light Field Cameras and Extended Applications in Super-Resolution. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3019-3033.	2.9	21
2180	Physics-Based Generative Adversarial Models for Image Restoration and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2449-2462.	9.7	89
2181	Residual Dense Network for Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2480-2495.	9.7	443
2182	(SARN)spatial-wise attention residual network for image super-resolution. Visual Computer, 2021, 37, 1569-1580.	2.5	22
2183	Constructing 10-m NDVI Time Series From Landsat 8 and Sentinel 2 Images Using Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1461-1465.	1.4	20
2184	Obtaining Super-Resolution Satellites Images Based on Enhancement Deep Convolutional Neural Network. International Journal of Aeronautical and Space Sciences, 2021, 22, 195-202.	1.0	4
2185	Artifact Removal in Sparse-Angle CT Based on Feature Fusion Residual Network. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 261-271.	2.7	12
2186	Remote Sensing Image Super-Resolution Using Novel Dense-Sampling Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1618-1633.	2.7	76
2187	Photo-Realistic Image Super-Resolution via Variational Autoencoders. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1351-1365.	5.6	24
2188	Cascading and Enhanced Residual Networks for Accurate Single-Image Super-Resolution. IEEE Transactions on Cybernetics, 2021, 51, 115-125.	6.2	82
2189	Enhancing ISAR Resolution by a Generative Adversarial Network. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 127-131.	1.4	20
2190	Deep learning-based compressed image artifacts reduction based on multi-scale image fusion. Information Fusion, 2021, 67, 195-207.	11.7	22
2191	Multi-Scale Gradients Self-Attention Residual Learning for Face Photo-Sketch Transformation. IEEE Transactions on Information Forensics and Security, 2021, 16, 1218-1230.	4.5	18
2192	Structural residual learning for single image rain removal. Knowledge-Based Systems, 2021, 213, 106595.	4.0	19

#	ARTICLE	IF	CITATIONS
2193	Single-image super-resolution reconstruction using dark channel regularization network. <i>Signal, Image and Video Processing</i> , 2021, 15, 431-438.	1.7	0
2194	DeepEDN: A Deep-Learning-Based Image Encryption and Decryption Network for Internet of Medical Things. <i>IEEE Internet of Things Journal</i> , 2021, 8, 1504-1518.	5.5	119
2195	Integrated fusion framework based on semicoupled sparse tensor factorization for spatio-temporal spectral fusion of remote sensing images. <i>Information Fusion</i> , 2021, 65, 21-36.	11.7	23
2196	Learning wavelet coefficients for face super-resolution. <i>Visual Computer</i> , 2021, 37, 1613-1622.	2.5	5
2197	Constructing multilayer locality-constrained matrix regression framework for noise robust face super-resolution. <i>Pattern Recognition</i> , 2021, 110, 107539.	5.1	29
2198	Pan-Sharpening via Multiscale Dynamic Convolutional Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 2231-2244.	2.7	27
2199	Residual attention network using multi-channel dense connections for image super-resolution. <i>Applied Intelligence</i> , 2021, 51, 85-99.	3.3	13
2200	Remote Sensing Image Super-Resolution via Mixed High-Order Attention Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5183-5196.	2.7	82
2201	Multi-Frame Super-Resolution Reconstruction Algorithm of Optical Remote Sensing Images Based on Double Regularization Terms and Unsupervised Learning. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2021, 35, 2154002.	0.7	3
2202	Single image deraining via deep shared pyramid network. <i>Visual Computer</i> , 2021, 37, 1851-1865.	2.5	9
2203	Ear tracking via Siamese hierarchical refinement network for local active noise control. <i>Journal of Real-Time Image Processing</i> , 2021, 18, 635-646.	2.2	0
2204	Transformation of Multispectral Data to Quasi-Hyperspectral Data Using Convolutional Neural Network Regression. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 3352-3368.	2.7	6
2205	Compression Priors Assisted Convolutional Neural Network for Fractional Interpolation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 1953-1967.	5.6	2
2206	Single Image Super-Resolution by Residual Recovery Based on an Independent Deep Convolutional Network. <i>IEEE Access</i> , 2021, 9, 43701-43710.	2.6	5
2207	Wavelet-Based Deep Auto Encoder-Decoder (WDAED)-Based Image Compression. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 1452-1462.	5.6	36
2208	Fast Generation of High-Fidelity RGB-D Images by Deep Learning With Adaptive Convolution. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 1328-1340.	3.4	3
2209	Hybrid Local and Nonlocal 3-D Attentive CNN for Hyperspectral Image Super-Resolution. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 1274-1278.	1.4	17
2210	Learning Face Image Super-Resolution Through Facial Semantic Attribute Transformation and Self-Attentive Structure Enhancement. <i>IEEE Transactions on Multimedia</i> , 2021, 23, 468-483.	5.2	21

#	ARTICLE	IF	CITATIONS
2211	Single image super-resolution with multi-scale information cross-fusion network. <i>Signal Processing</i> , 2021, 179, 107831.	2.1	31
2212	Image super resolution based on residual dense CNN and guided filters. <i>Multimedia Tools and Applications</i> , 2021, 80, 5403-5421.	2.6	7
2213	Deep learning-based super-resolution images for synchronous measurement of temperature and deformation at elevated temperature. <i>Optik</i> , 2021, 226, 165764.	1.4	6
2214	Uncertainty modelling in deep learning for safer neuroimage enhancement: Demonstration in diffusion MRI. <i>NeuroImage</i> , 2021, 225, 117366.	2.1	59
2215	Hybrid sparsity learning for image restoration: An iterative and trainable approach. <i>Signal Processing</i> , 2021, 178, 107751.	2.1	8
2216	Remote Sensing Image Super-Resolution Using Second-Order Multi-Scale Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 3473-3485.	2.7	37
2217	SRGAN: sonar-image super-resolution based on generative adversarial network. <i>Visual Computer</i> , 2021, 37, 2285-2299.	2.5	12
2218	Multi-scale fractal residual network for image super-resolution. <i>Applied Intelligence</i> , 2021, 51, 1845-1856.	3.3	21
2219	Single image super-resolution with attention-based densely connected module. <i>Neurocomputing</i> , 2021, 453, 876-884.	3.5	12
2220	RSRGAN: computationally efficient real-world single image super-resolution using generative adversarial network. <i>Machine Vision and Applications</i> , 2021, 32, 1.	1.7	5
2221	Using super-resolution generative adversarial network models and transfer learning to obtain high resolution digital periapical radiographs. <i>Computers in Biology and Medicine</i> , 2021, 129, 104139.	3.9	25
2222	Retrospective respiratory motion correction in cardiac cine MRI reconstruction using adversarial autoencoder and unsupervised learning. <i>NMR in Biomedicine</i> , 2021, 34, e4433.	1.6	17
2223	Super-Resolution Based on Residual Learning and Optimized Phase Stretch Transform. <i>International Journal of Image and Graphics</i> , 2021, 21, 2150008.	1.2	1
2224	Artificial intelligence for pathology. , 2021, , 183-221.		2
2225	Gradual deep residual network for super-resolution. <i>Multimedia Tools and Applications</i> , 2021, 80, 9765-9778.	2.6	12
2226	Image super-resolution based on dense convolutional auto-encoder blocks. <i>Neurocomputing</i> , 2021, 423, 98-109.	3.5	9
2227	Recent advances and new guidelines on hyperspectral and multispectral image fusion. <i>Information Fusion</i> , 2021, 69, 40-51.	11.7	106
2228	Deep Convolutional Encoder-Decoder algorithm for MRI brain reconstruction. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 85-106.	1.6	3

#	ARTICLE	IF	CITATIONS
2230	Finer cornea characterization with improved spatial resolution in Corvis ST. Biomedical Signal Processing and Control, 2021, 65, 102297.	3.5	1
2231	Single image super-resolution for whole slide image using convolutional neural networks and self-supervised color normalization. Medical Image Analysis, 2021, 68, 101938.	7.0	25
2232	Reference guided image super-resolution via efficient dense warping and adaptive fusion. Signal Processing: Image Communication, 2021, 92, 116062.	1.8	2
2233	Low-dose CT image denoising using residual convolutional network with fractional TV loss. Neurocomputing, 2021, 452, 510-520.	3.5	17
2234	Hyperspectral Image Superresolution Using Spectrum and Feature Context. IEEE Transactions on Industrial Electronics, 2021, 68, 11276-11285.	5.2	53
2235	Manifold Modeling in Embedded Space: An Interpretable Alternative to Deep Image Prior. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1022-1036.	7.2	11
2236	SRARNet: A Unified Framework for Joint Superresolution and Aircraft Recognition. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 327-336.	2.3	6
2237	Toward Better Planetary Surface Exploration by Orbital Imagery Inpainting. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 175-189.	2.3	1
2238	Applications of Deep Learning-Based Super-Resolution for Sea Surface Temperature Reconstruction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 887-896.	2.3	5
2239	On Filter Generalization for Music Bandwidth Extension Using Deep Neural Networks. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 132-142.	7.3	9
2240	Light Field Image Super-Resolution Using Deformable Convolution. IEEE Transactions on Image Processing, 2021, 30, 1057-1071.	6.0	75
2241	A practical generative adversarial network architecture for restoring damaged character photographs. Neurocomputing, 2021, 423, 590-600.	3.5	2
2242	Stochastic Super-Resolution for Downscaling Time-Evolving Atmospheric Fields With a Generative Adversarial Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7211-7223.	2.7	52
2243	Unlabeled Far-Field Deeply Subwavelength Topological Microscopy (DSTM). Advanced Science, 2021, 8, 2002886.	5.6	21
2244	Multi-scale skip-connection network for image super-resolution. Multimedia Systems, 2021, 27, 821-836.	3.0	8
2245	An image super-resolution deep learning network based on multi-level feature extraction module. Multimedia Tools and Applications, 2021, 80, 7063-7075.	2.6	12
2246	Mixed-noise robust face super-resolution through residual-learning based error suppressed nearest neighbor representation. Information Sciences, 2021, 546, 121-145.	4.0	9
2247	Corneal Smart Phone: A novel method to intelligently estimate postmortem interval. Journal of Forensic Sciences, 2021, 66, 356-364.	0.9	5

#	ARTICLE	IF	CITATIONS
2248	Video super-resolution based on a spatio-temporal matching network. <i>Pattern Recognition</i> , 2021, 110, 107619.	5.1	32
2249	Potentials and caveats of AI in hybrid imaging. <i>Methods</i> , 2021, 188, 4-19.	1.9	12
2250	Approximating anatomically-guided PET reconstruction in image space using a convolutional neural network. <i>NeuroImage</i> , 2021, 224, 117399.	2.1	29
2251	Progressive perception-oriented network for single image super-resolution. <i>Information Sciences</i> , 2021, 546, 769-786.	4.0	36
2252	Advanced visualization using image super-resolution method for three-dimensional mobile system. <i>Optics Communications</i> , 2021, 480, 126494.	1.0	6
2253	CycleGAN-STF: Spatiotemporal Fusion via CycleGAN-Based Image Generation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5851-5865.	2.7	38
2254	DE-GAN: A Conditional Generative Adversarial Network for Document Enhancement. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 1180-1191.	9.7	50
2255	A Distortion-Aware Multi-Task Learning Framework for Fractional Interpolation in Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 2824-2836.	5.6	2
2256	Nonpairwise-Trained Cycle Convolutional Neural Network for Single Remote Sensing Image Super-Resolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 4250-4261.	2.7	15
2257	E-FCNN for tiny facial expression recognition. <i>Applied Intelligence</i> , 2021, 51, 549-559.	3.3	26
2258	Consistency Guided Network for Degraded Image Classification. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 2231-2246.	5.6	13
2259	ESR-GAN: Environmental Signal Reconstruction Learning With Generative Adversarial Network. <i>IEEE Internet of Things Journal</i> , 2021, 8, 636-646.	5.5	6
2260	Paradigm shifts in super-resolution techniques for remote sensing applications. <i>Visual Computer</i> , 2021, 37, 1965-2008.	2.5	14
2261	Improving <i>in vivo</i> human cerebral cortical surface reconstruction using data-driven super-resolution. <i>Cerebral Cortex</i> , 2021, 31, 463-482.	1.6	17
2262	Super-Resolution-Guided Progressive Pansharpening Based on a Deep Convolutional Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5206-5220.	2.7	69
2263	Identification of Melanoma From Hyperspectral Pathology Image Using 3D Convolutional Networks. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 218-227.	5.4	59
2264	Chest X-ray images super-resolution reconstruction via recursive neural network. <i>Multimedia Tools and Applications</i> , 2021, 80, 263-277.	2.6	4
2265	A secure visual secret sharing (VSS) scheme with CNN-based image enhancement for underwater images. <i>Visual Computer</i> , 2021, 37, 2097-2111.	2.5	15

#	ARTICLE	IF	CITATIONS
2266	Image super-resolution using supervised multi-scale feature extraction network. Multimedia Tools and Applications, 2021, 80, 1995-2008.	2.6	6
2267	Rain Rendering for Evaluating and Improving Robustness to Bad Weather. International Journal of Computer Vision, 2021, 129, 341-360.	10.9	45
2268	Two-Stage Point Cloud Super Resolution with Local Interpolation and Readjustment via Outer-Product Neural Network. Journal of Systems Science and Complexity, 2021, 34, 68-82.	1.6	6
2269	Two Stages Pan-Sharpener Details Injection Approach Based on Very Deep Residual Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4984-4992.	2.7	16
2270	Small vehicle classification in the wild using generative adversarial network. Neural Computing and Applications, 2021, 33, 5369-5379.	3.2	8
2271	Nonlinear Regression via Deep Negative Correlation Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 982-998.	9.7	68
2272	MFQE 2.0: A New Approach for Multi-Frame Quality Enhancement on Compressed Video. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 949-963.	9.7	123
2273	A General Decoupled Learning Framework for Parameterized Image Operators. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 33-47.	9.7	19
2274	Effects of Image Degradation and Degradation Removal to CNN-Based Image Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1239-1253.	9.7	121
2275	Volumetric Isosurface Rendering with Deep Learning-Based Super-Resolution. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3064-3078.	2.9	30
2276	A novel stacked sparse denoising autoencoder for mammography restoration to visual interpretation of breast lesion. Evolutionary Intelligence, 2021, 14, 133-149.	2.3	4
2277	Bilateral Upsampling Network for Single Image Super-Resolution With Arbitrary Scaling Factors. IEEE Transactions on Image Processing, 2021, 30, 4395-4408.	6.0	3
2278	Progressive Splitting and Upscaling Structure for Super-Resolution. , 2021, , .		0
2280	SRWGANTV: Image Super-Resolution Through Wasserstein Generative Adversarial Networks with Total Variational Regularization. , 2021, , .		5
2281	Hierarchically Aggregated Residual Transformation for Single Image Super Resolution. , 2021, , .		1
2282	Geometric Deformation on Objects: Unsupervised Image Manipulation via Conjugation. Lecture Notes in Computer Science, 2021, , 346-357.	1.0	0
2283	Learning Methodologies to Generate Kernel-Learning-Based Image Downscaler for Arbitrary Scaling Factors. IEEE Transactions on Image Processing, 2021, 30, 4526-4539.	6.0	2
2284	Infrared Image Super-Resolution via Transfer Learning and PSRGAN. IEEE Signal Processing Letters, 2021, 28, 982-986.	2.1	26



#	ARTICLE	IF	CITATIONS
2285	Wavelet-Supervision Convolutional Neural Network for Restoration of JPEG-LS Near Lossless Compression Image. , 2021, , .		3
2286	Boundary guided image translation for pose estimation from ultra-low resolution thermal sensor. , 2021, , .		0
2287	SAR Image Super-Resolution Reconstruction Based on Dual Discrimination. Computer Science and Application, 2021, 11, 1617-1626.	0.0	0
2288	Stray Light Elimination Method Based on Recursion Multi-Scale Gray-Scale Morphology for Wide-Field Surveillance. IEEE Access, 2021, 9, 16928-16936.	2.6	7
2290	Lightweight Single-Image Super-Resolution Network with Attentive Auxiliary Feature Learning. Lecture Notes in Computer Science, 2021, , 268-285.	1.0	11
2291	Fine-Grained Attention and Feature-Sharing Generative Adversarial Networks for Single Image Super-Resolution. IEEE Transactions on Multimedia, 2022, 24, 1473-1487.	5.2	30
2292	Sequence Image Interpolation via Separable Convolution Network. Remote Sensing, 2021, 13, 296.	1.8	6
2296	Super Resolution. Profiles in Operations Research, 2021, , 323-360.	0.3	0
2297	Image Super-Resolution With Self-Similarity Prior Guided Network and Sample-Discriminating Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1966-1985.	5.6	10
2298	Generative Adversarial Network for Pansharpening With Spectral and Spatial Discriminators. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	23
2299	Hybrid Autonomous Driving Guidance Strategy Combining Deep Reinforcement Learning and Expert System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11273-11286.	4.7	12
2300	Performance Evaluations of Channel Estimation Using Deep-learning Based Super-resolution. , 2021, , .		5
2301	Unsupervised Video Satellite Super-Resolution by Using Only a Single Video. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
2303	Mixed distortion image enhancement method based on joint of deep residuals learning and reinforcement learning. Signal, Image and Video Processing, 2021, 15, 995-1002.	1.7	4
2304	PGMAN: An Unsupervised Generative Multiadversarial Network for Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6316-6327.	2.3	36
2305	Single image rain streak removal via layer similarity prior. Applied Intelligence, 2021, 51, 5822-5835.	3.3	3
2306	Depth Map Super-Resolution Based on Dual Normal-Depth Regularization and Graph Laplacian Prior. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3304-3318.	5.6	4
2307	RRSCAN: Reference-Based Super-Resolution for Remote Sensing Image. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	20



#	ARTICLE	IF	CITATIONS
2308	Multi-Stage Degradation Homogenization for Super-Resolution of Face Images With Extreme Degradations. IEEE Transactions on Image Processing, 2021, 30, 5600-5612.	6.0	6
2309	Multi-Frame Super-Resolution Algorithm Based on a WGAN. IEEE Access, 2021, 9, 85839-85851.	2.6	6
2310	Generative Model-Driven Sampling Strategy for the High-Efficiency Measurement of Complex Surfaces on Coordinate Measuring Machines. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	15
2311	A Two-Stage Attentive Network for Single Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1020-1033.	5.6	34
2312	Rain-Free and Residue Hand-in-Hand: A Progressive Coupled Network for Real-Time Image Deraining. IEEE Transactions on Image Processing, 2021, 30, 7404-7418.	6.0	64
2313	Variational Regularization Network With Attentive Deep Prior for Hyperspectral Multispectral Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	27
2314	Hyperspectral Image Superresolution via Deep Structure and Texture Interfusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8665-8678.	2.3	4
2315	Generative Adversarial Networks for Abnormal Event Detection in Videos Based on Self-Attention Mechanism. IEEE Access, 2021, 9, 124847-124860.	2.6	12
2316	Learning to Zoom-In via Learning to Zoom-Out: Real-World Super-Resolution by Generating and Adapting Degradation. IEEE Transactions on Image Processing, 2021, 30, 2947-2962.	6.0	19
2317	An image super-resolution reconstruction model based on fractional-order anisotropic diffusion equation. Mathematical Biosciences and Engineering, 2021, 18, 6581-6607.	1.0	4
2318	DriveGuard: Robustification of Automated Driving Systems with Deep Spatio-Temporal Convolutional Autoencoder. , 2021, , .		1
2319	Unsupervised Recurrent Hyperspectral Imagery Super-Resolution Using Pixel-Aware Refinement. IEEE Transactions on Geoscience and Remote Sensing, 2021, , 1-15.	2.7	60
2320	Reliable Perceptual Loss Computation for GAN-Based Super-Resolution With Edge Texture Metric. IEEE Access, 2021, 9, 120127-120137.	2.6	1
2321	Progressive U-Net residual network for computed tomography images super-resolution in the screening of COVID-19. Journal of Radiation Research and Applied Sciences, 2021, 14, 369-379.	0.7	10
2322	PSGAN: A Generative Adversarial Network for Remote Sensing Image Pan-Sharpening. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10227-10242.	2.7	111
2323	Underwater Image Enhancement via Medium Transmission-Guided Multi-Color Space Embedding. IEEE Transactions on Image Processing, 2021, 30, 4985-5000.	6.0	295
2324	A Dataset and Benchmark Towards Multi-Modal Face Anti-Spoofing Under Surveillance Scenarios. IEEE Access, 2021, 9, 28140-28155.	2.6	8
2325	Reconstructing High-Resolution Ocean Subsurface and Interior Temperature and Salinity Anomalies From Satellite Observations. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	14

#	ARTICLE	IF	CITATIONS
2326	AMP-Net: Denoising-Based Deep Unfolding for Compressive Image Sensing. IEEE Transactions on Image Processing, 2021, 30, 1487-1500.	6.0	112
2327	A Progressive Fusion Generative Adversarial Network for Realistic and Consistent Video Super-Resolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	25
2328	SRNSSI: A Deep Light-Weight Network for Single Image Super Resolution Using Spatial and Spectral Information. IEEE Transactions on Computational Imaging, 2021, 7, 409-421.	2.6	13
2329	Iterative Network for Image Super-Resolution. IEEE Transactions on Multimedia, 2022, 24, 2259-2272.	5.2	12
2330	SUPERVEGAN: Super Resolution Video Enhancement GAN for Perceptually Improving Low Bitrate Streams. IEEE Access, 2021, 9, 91160-91174.	2.6	7
2331	Improved CNN-Based Learning of Interpolation Filters for Low-Complexity Inter Prediction in Video Coding. IEEE Open Journal of Signal Processing, 2021, 2, 453-465.	2.3	12
2332	Depth Map Super-Resolution Using Guided Deformable Convolution. IEEE Access, 2021, 9, 66626-66635.	2.6	3
2333	Generative Dual-Adversarial Network With Spectral Fidelity and Spatial Enhancement for Hyperspectral Pansharpening. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7303-7317.	7.2	39
2334	Scalable image decomposition. Neural Computing and Applications, 2021, 33, 9137-9151.	3.2	1
2335	BVI-DVC: A Training Database for Deep Video Compression. IEEE Transactions on Multimedia, 2022, 24, 3847-3858.	5.2	39
2336	Visual Object Detection and Tracking for Internet of Things Devices Based on Spatial Attention Powered Multidomain Network. IEEE Internet of Things Journal, 2023, 10, 2811-2820.	5.5	7
2337	MIMO Radar Aided mmWave Time-Varying Channel Estimation in MU-MIMO V2X Communications. IEEE Transactions on Wireless Communications, 2021, 20, 7581-7594.	6.1	29
2338	Block-Attentive Subpixel Prediction Networks for Computationally Efficient Image Restoration. IEEE Access, 2021, 9, 90881-90895.	2.6	1
2339	Adaptive Spatial Pyramid Constraint for Hyperspectral Image Classification With Limited Training Samples. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	22
2340	Multi-Domain Image-to-Image Translation via a Unified Circular Framework. IEEE Transactions on Image Processing, 2021, 30, 670-684.	6.0	9
2341	Image Super-Resolution via Generative Adversarial Network Using an Orthogonal Projection. , 2021, , .		0
2342	Hair Segmentation and Removal in Dermoscopic Images Using Deep Learning. IEEE Access, 2021, 9, 2694-2704.	2.6	27
2343	Enhancing Image Resolution and Denoising Using Autoencoder. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 649-659.	0.5	2

#	ARTICLE	IF	CITATIONS
2344	Video super resolution using convolutional neural network and image fusion techniques. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2021, 24, 279-287.	0.7	2
2345	Masquerade attack on biometric hashing via BiohashGAN. Visual Computer, 2022, 38, 821-835.	2.5	1
2346	A Novel Unmixing-Based Hypersharpener Method via Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	2
2347	Wide Weighted Attention Multi-Scale Network for Accurate MR Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 962-975.	5.6	16
2348	Unsupervised Single Image Super-Resolution Using Cycle Generative Adversarial Network. Communications in Computer and Information Science, 2021, , 359-370.	0.4	0
2350	A Single Image Super-Resolution Algorithm Based on Dense Residual Convolutional Network. Pattern Recognition and Image Analysis, 2021, 31, 1-6.	0.6	1
2351	Video Super-Resolution and Caching—An Edge-Assisted Adaptive Video Streaming Solution. IEEE Transactions on Broadcasting, 2021, 67, 799-812.	2.5	26
2352	Features Guided Face Super-Resolution via Hybrid Model of Deep Learning and Random Forests. IEEE Transactions on Image Processing, 2021, 30, 4157-4170.	6.0	17
2353	Quantifying Model Uncertainty in Inverse Problems via Bayesian Deep Gradient Descent. , 2021, , .		4
2354	Triply Complementary Priors for Image Restoration. IEEE Transactions on Image Processing, 2021, 30, 5819-5834.	6.0	42
2355	Individual Tree Crown Detection using GAN and RetinaNet on Tropical Forest. , 2021, , .		4
2356	Land-Use Mapping for High-Spatial Resolution Remote Sensing Image Via Deep Learning: A Review. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5372-5391.	2.3	25
2357	Hyperspectral Image Super-Resolution via Recurrent Feedback Embedding and Spatial—Spectral Consistency Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	24
2358	From Local to Global: Efficient Dual Attention Mechanism for Single Image Super-Resolution. IEEE Access, 2021, 9, 114957-114964.	2.6	5
2359	Blind Super-resolution of Faces for Surveillance. Advances in Computer Vision and Pattern Recognition, 2021, , 119-136.	0.9	3
2360	Deep Shearlet Residual Learning Network for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 4129-4142.	6.0	12
2361	Edge-Conditioned Feature Transform Network for Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	11
2362	A Novel and Reliable Framework of Patient Deterioration Prediction in Intensive Care Unit Based on Long Short-Term Memory-Recurrent Neural Network. IEEE Access, 2021, 9, 3894-3918.	2.6	10

#	ARTICLE	IF	CITATIONS
2363	Underwater Object Detection and Reconstruction Based on Active Single-Pixel Imaging and Super-Resolution Convolutional Neural Network. <i>Sensors</i> , 2021, 21, 313.	2.1	18
2364	Interlayer Restoration Deep Neural Network for Scalable High Efficiency Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 3217-3234.	5.6	2
2365	Effectiveness of Super-Resolution Technique on Vegetation Indices. <i>IEEE Access</i> , 2021, 9, 97197-97227.	2.6	1
2366	Well log data super-resolution based on locally linear embedding. <i>Oil and Gas Science and Technology</i> , 2021, 76, 63.	1.4	0
2367	A Frequency Domain Constraint for Synthetic and Real X-ray Image Super Resolution. <i>Lecture Notes in Computer Science</i> , 2021, , 120-129.	1.0	2
2369	Deep Learning 3D Inversion of Subsurface Target Based on Multinary Electromagnetic Data. <i>Springer Series in Geomechanics and Geoengineering</i> , 2021, , 2816-2825.	0.0	1
2370	Autoencoder-Inspired Convolutional Network-Based Super-Resolution Method in MRI. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2021, 9, 1-13.	2.2	19
2371	Small Object Detection Leveraging on Simultaneous Super-resolution. , 2021, , .		1
2372	Hypergraph-regularized sparse representation for single color image super resolution. <i>Journal of Visual Communication and Image Representation</i> , 2021, 74, 102951.	1.7	3
2373	Super-Resolution of Level-17 Images Using Generative Adversarial Networks. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2021, , 379-392.	0.5	1
2374	Augmented Convolutional LSTMs for Generation of High-Resolution Climate Change Projections. <i>IEEE Access</i> , 2021, 9, 25208-25218.	2.6	15
2375	A High-Performance CNN-Applied HEVC Steganography Based on Diamond-Coded PU Partition Modes. <i>IEEE Transactions on Multimedia</i> , 2022, 24, 2084-2097.	5.2	8
2376	Image Super-Resolution Using Multi-Scale Space Feature and Deformable Convolutional Network. <i>IEEE Access</i> , 2021, 9, 74614-74621.	2.6	4
2377	Learning-Based Quality Assessment for Image Super-Resolution. <i>IEEE Transactions on Multimedia</i> , 2022, 24, 3570-3581.	5.2	12
2378	Difference Value Network for Image Super-Resolution. <i>IEEE Signal Processing Letters</i> , 2021, 28, 1070-1074.	2.1	3
2379	CNN-Based Suppression of False Contour and Color Distortion in Bit-Depth Enhancement. <i>Sensors</i> , 2021, 21, 416.	2.1	4
2380	A Meta-Analysis of Convolutional Neural Networks for Remote Sensing Applications. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 3602-3613.	2.3	24
2381	Rethinking Deinterlacing for Early Interlaced Videos. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2022, 32, 4872-4878.	5.6	2

#	ARTICLE	IF	CITATIONS
2382	Fast Light Field Angular Resolution Enhancement Using Convolutional Neural Network. IEEE Access, 2021, 9, 30216-30224.	2.6	5
2383	Ensemble-Based Information Retrieval With Mass Estimation for Hyperspectral Target Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-23.	2.7	23
2384	Deep Learning for Feature-Level Data Fusion: Higher Resolution Reconstruction of Historical Landsat Archive. Remote Sensing, 2021, 13, 167.	1.8	20
2385	Accurate Magnetic Resonance Image Super-Resolution Using Deep Networks and Gaussian Filtering in the Stationary Wavelet Domain. IEEE Access, 2021, 9, 71406-71417.	2.6	97
2386	DualSR: Zero-Shot Dual Learning for Real-World Super-Resolution. , 2021, , .		24
2387	A Hybrid Single Image Super-Resolution Technique Using Fractal Interpolation and Convolutional Neural Network. Pattern Recognition and Image Analysis, 2021, 31, 18-23.	0.6	3
2388	Tracking Based Semi-Automatic Annotation for Scene Text Videos. IEEE Access, 2021, 9, 46325-46338.	2.6	3
2389	Super-resolution Guided Pore Detection for Fingerprint Recognition. , 2021, , .		0
2390	Modal Regression-Based Graph Representation for Noise Robust Face Hallucination. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2490-2502.	7.2	5
2391	D-SRGAN: DEM Super-Resolution with Generative Adversarial Networks. SN Computer Science, 2021, 2, 1.	2.3	44
2392	Deep Convolutional Neural Network With Adversarial Training for Denoising Digital Breast Tomosynthesis Images. IEEE Transactions on Medical Imaging, 2021, 40, 1805-1816.	5.4	19
2393	Unsupervised Multispectral and Hyperspectral Image Fusion with Deep Spatial and Spectral Priors. Lecture Notes in Computer Science, 2021, , 31-45.	1.0	2
2394	IQINN: Improve the Quality of Image by Neural Network. Smart Innovation, Systems and Technologies, 2021, , 389-395.	0.5	0
2395	CARAFE++: Unified Content-Aware ReAssembly of Features. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	13
2396	Sentinel-3 Super-Resolution Based on Dense Multireceptive Channel Attention. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7359-7372.	2.3	1
2397	Feature-level interpolation-based GAN for image super-resolution. Personal and Ubiquitous Computing, 2022, 26, 995-1010.	1.9	4
2398	Performance Comparison of SRCNN, VDSR, and SRDenseNet Deep Learning Models in Embedded Autonomous Driving Platforms. , 2021, , .		2
2399	Super Resolution Deduction: Inferring Fine-Grained Capacity for Urban Signal Station Deployment. IEEE Access, 2021, 9, 23335-23343.	2.6	1

#	ARTICLE	IF	CITATIONS
2400	In-situ Detection of Micro Crystals During Cooling Crystallization Based on Deep Image Super-Resolution Reconstruction. IEEE Access, 2021, 9, 31618-31626.	2.6	4
2401	Unsupervised Real-World Super-resolution Using Variational Auto-encoder and Generative Adversarial Network. Lecture Notes in Computer Science, 2021, , 703-718.	1.0	1
2402	A Wavelet-based Asymmetric Convolution Network for Single Image Super-Resolution. IEEE Access, 2021, , 1-1.	2.6	2
2403	Lightweight Feedback Convolution Neural Network for Remote Sensing Images Super-Resolution. IEEE Access, 2021, 9, 15992-16003.	2.6	8
2404	SARF: A Simple, Adjustable, and Robust Fusion Method. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
2405	DeepSEE: Deep Disentangled Semantic Explorative Extreme Super-Resolution. Lecture Notes in Computer Science, 2021, , 624-642.	1.0	4
2406	Fusion of Hyperspectral and Panchromatic Images Using Generative Adversarial Network and Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	10
2407	MSSL: Hyperspectral and Panchromatic Images Fusion via Multiresolution Spatial Spectral Feature Learning Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	10
2408	Cross-View Image Translation Based on Local and Global Information Guidance. IEEE Access, 2021, 9, 12955-12967.	2.6	2
2409	Deep Learning for Uplink Spectral Efficiency in Cell-Free Massive MIMO Systems. Journal of Advances in Information Technology, 2021, 12, 119-127.	2.6	4
2410	Cross-Scale Residual Network: A General Framework for Image Super-Resolution, Denoising, and Deblocking. IEEE Transactions on Cybernetics, 2022, 52, 5855-5867.	6.2	16
2412	Image super-resolution by learning weighted convolutional sparse coding. Signal, Image and Video Processing, 2021, 15, 967-975.	1.7	12
2413	MC-JAFN: Multilevel Contexts-Based Joint Attentive Fusion Network for Pansharpening. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	7
2414	Spatiotemporal Reflectance Fusion Using a Generative Adversarial Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	7
2415	High-Resolution Image Data Collection Scheme for Road Sensing Using Wide-Angle Cameras on General-Use Vehicle Criteria to Include/Exclude Collected Images for Super Resolution. International Journal of Intelligent Transportation Systems Research, 2021, 19, 299-311.	0.6	2
2416	Image Super-Resolution Based on Residual Block Dense Connection. Lecture Notes in Computer Science, 2021, , 337-348.	1.0	0
2417	Improving Low-Resolution Image Classification by Super-Resolution with Enhancing High-Frequency Content. , 2021, , .		3
2418	Learning Context-Based Nonlocal Entropy Modeling for Image Compression. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1132-1145.	7.2	9

#	ARTICLE	IF	CITATIONS
2419	Generative Adversarial Networks for Image and Video Synthesis: Algorithms and Applications. Proceedings of the IEEE, 2021, 109, 839-862.	16.4	67
2420	Evaluation and development of deep neural networks for image super-resolution in optical microscopy. Nature Methods, 2021, 18, 194-202.	9.0	203
2421	Study on Image Enhancement Method for Low Illumination Target Recognition. Lecture Notes in Electrical Engineering, 2021, , 155-161.	0.3	0
2422	Multiframe Video Satellite Image Super-Resolution via Attention-Based Residual Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	10
2423	Unsupervised and Unregistered Hyperspectral Image Super-Resolution With Mutual Dirichlet-Net. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	21
2424	Spectral Super-Resolution Network Guided by Intrinsic Properties of Hyperspectral Imagery. IEEE Transactions on Image Processing, 2021, 30, 7256-7265.	6.0	42
2426	Two-Step Electricity Theft Detection Strategy Considering Economic Return Based on Convolutional Autoencoder and Improved Regression Algorithm. IEEE Transactions on Power Systems, 2022, 37, 2346-2359.	4.6	21
2427	Temporal Graph Super Resolution on Power Distribution Network Measurements. IEEE Access, 2021, 9, 70628-70638.	2.6	6
2428	Recurrent Multi-Frame Deraining: Combining Physics Guidance and Adversarial Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	12
2429	Image Processing Analytics: Enhancements and Segmentation. , 2021, , 1727-1745.		0
2430	Spectrally Sparse Signal Recovery via Hankel Matrix Completion With Prior Information. IEEE Transactions on Signal Processing, 2021, 69, 2174-2187.	3.2	10
2431	Interpretable Detail-Fidelity Attention Network for Single Image Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 2325-2339.	6.0	34
2432	Lightweight Image Super-Resolution With Expectation-Maximization Attention Mechanism. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1273-1284.	5.6	81
2433	Distortion Removal and Deblurring of Single-Shot DWI MRI Scans. Lecture Notes in Computer Science, 2021, , 65-75.	1.0	0
2434	Direct Unsupervised Super-Resolution Using Generative Adversarial Network (DUS-GAN) for Real-World Data. IEEE Transactions on Image Processing, 2021, 30, 8251-8264.	6.0	17
2435	Image Compression-Aware Deep Camera ISP Network. IEEE Access, 2021, , 1-1.	2.6	2
2436	One-to-One Mapping-Like Properties of DCN-Based Super-Resolution and its Applicability to Real-World Images. IEEE Access, 2021, 9, 121167-121183.	2.6	0
2437	Visual information processing for deep-sea visual monitoring system. Cognitive Robotics, 2021, 1, 3-11.	3.2	76



#	ARTICLE	IF	CITATIONS
2438	Satellite Video Super-Resolution via Multiscale Deformable Convolution Alignment and Temporal Grouping Projection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	55
2439	Dual-Collaborative Fusion Model for Multispectral and Panchromatic Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	13
2440	CV-GMTINet: GMTI Using a Deep Complex-Valued Convolutional Neural Network for Multichannel SAR-GMTI System. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	18
2441	SC-PNN: Saliency Cascade Convolutional Neural Network for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9697-9715.	2.7	14
2442	Plug-and-Play Image Restoration With Deep Denoiser Prior. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 6360-6376.	9.7	289
2443	Deep Learning and RFID System Physical Anti-Collision. , 2021, , 201-237.		0
2444	MARN: Multi-Scale Attention Retinex Network for Low-Light Image Enhancement. IEEE Access, 2021, 9, 50939-50948.	2.6	17
2445	On-Device Text Image Super Resolution. , 2021, , .		0
2446	Image Super-Resolution Using Deformable Convolutional Network. Communications in Computer and Information Science, 2021, , 650-660.	0.4	0
2447	Image Reconstruction Based on Fused Features and Perceptual Loss Encoder-Decoder Residual Network for Space Optical Remote Sensing Images Compressive Sensing. IEEE Access, 2021, 9, 50413-50425.	2.6	4
2448	Adaptive Nonnegative Sparse Representation for Hyperspectral Image Super-Resolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4267-4283.	2.3	14
2449	Lightweight Attended Multi-Scale Residual Network for Single Image Super-Resolution. IEEE Access, 2021, 9, 52202-52212.	2.6	10
2450	Image Reconstruction Based on Shape Analysis. Lecture Notes in Networks and Systems, 2021, , 71-78.	0.5	1
2451	Deep Convolutional Neural Network Based on Wavelet Transform for Super Image Resolution. Advances in Intelligent Systems and Computing, 2021, , 114-123.	0.5	3
2452	Small-Object Detection Based on YOLO and Dense Block via Image Super-Resolution. IEEE Access, 2021, 9, 56416-56429.	2.6	31
2453	Constructing Large Transmission Matrix of Scattering Sample Based on Super-Resolution Algorithm. IEEE Access, 2021, 9, 55497-55505.	2.6	0
2454	Subband Adaptive Image Deblocking Using Wavelet Based Convolutional Neural Networks. IEEE Access, 2021, 9, 62593-62601.	2.6	4
2455	FAN: Feature Adaptation Network for Surveillance Face Recognition and Normalization. Lecture Notes in Computer Science, 2021, , 301-319.	1.0	6



#	ARTICLE	IF	CITATIONS
2456	L2R GAN: LiDAR-to-Radar Translation. Lecture Notes in Computer Science, 2021, , 704-720.	1.0	2
2457	MCGKT-Net: Multi-level Context Gating Knowledge Transfer Network for Single Image Deraining. Lecture Notes in Computer Science, 2021, , 68-83.	1.0	0
2458	Data Matching of Solar Images Super-Resolution Based on Deep Learning. Computers, Materials and Continua, 2021, 68, 4017-4029.	1.5	6
2459	Single Image Super-Resolution with Dynamic Residual Connection. , 2021, , .		1
2460	TinyVIRAT: Low-resolution Video Action Recognition. , 2021, , .		13
2461	Combining Progressive Rethinking and Collaborative Learning: A Deep Framework for In-Loop Filtering. IEEE Transactions on Image Processing, 2021, 30, 4198-4211.	6.0	15
2462	Adversarial Learning for Image Super Resolution Using Auxiliary Texture Feature Attributes. , 2021, , .		0
2463	Accelerated Smoke Simulation by Super-Resolution With Deep Learning on Downscaled and Binarized Space. IEEE Access, 2021, 9, 98615-98629.	2.6	1
2464	High fidelity single image blind deblur via GAN. Wireless Networks, 0, , 1.	2.0	0
2465	Edge missing image inpainting with compressionâ€“decompression network in low similarity images. Machine Vision and Applications, 2021, 32, 1.	1.7	2
2466	Bidirectional 3D Quasi-Recurrent Neural Network for Hyperspectral Image Super-Resolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2674-2688.	2.3	47
2467	Video Frame Interpolation and Enhancement via Pyramid Recurrent Framework. IEEE Transactions on Image Processing, 2021, 30, 277-292.	6.0	18
2468	Acceleration of MLFMA Simulations Using Trimmed Tree Structures. IEEE Transactions on Antennas and Propagation, 2021, 69, 356-365.	3.1	12
2469	Comparative Analysis on Deep Learning based Pan-sharpening of Very High-Resolution Satellite Images. International Journal of Environment and Geoinformatics, 2021, 8, 150-165.	0.5	2
2470	Fisheye Image Calibration and Super-Resolution Method Based On Deep Learning. , 2021, , .		2
2471	A Dual-Path Fusion Network for Pan-Sharpener. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	14
2472	One-for-All: An Efficient Variable Convolution Neural Network for In-Loop Filter of VVC. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2342-2355.	5.6	17
2473	Blind Motion Deblurring Super-Resolution: When Dynamic Spatio-Temporal Learning Meets Static Image Understanding. IEEE Transactions on Image Processing, 2021, 30, 7101-7111.	6.0	17

#	ARTICLE	IF	CITATIONS
2474	Efficient Video Super-Resolution via Hierarchical Temporal Residual Networks. IEEE Access, 2021, 9, 106049-106064.	2.6	3
2475	Deep GAN-Based Cross-Spectral Cross-Resolution Iris Recognition. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 443-463.	3.8	20
2476	Path-Restore: Learning Network Path Selection for Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7078-7092.	9.7	29
2477	One-Shot Super-Resolution via Backward Style Transfer for Fast High-Resolution Style Transfer. IEEE Signal Processing Letters, 2021, 28, 1485-1489.	2.1	7
2478	MIG-Net: Multi-Scale Network Alternatively Guided by Intensity and Gradient Features for Depth Map Super-Resolution. IEEE Transactions on Multimedia, 2022, 24, 3506-3519.	5.2	6
2479	Toward Real-World Super-Resolution via Adaptive Downsampling Models. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 8657-8670.	9.7	11
2480	DynaVSR: Dynamic Adaptive Blind Video Super-Resolution. , 2021, , .		11
2481	Enhanced Dense Space Attention Network for Super-Resolution Construction From Single Input Image. IEEE Access, 2021, 9, 126837-126855.	2.6	3
2483	Video Enhancement and Low-Resolution Facial Image Reconstruction for Crime Investigation. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 773-788.	0.5	2
2484	Subspace Constraint for Single Image Super-Resolution. Lecture Notes in Computer Science, 2021, , 395-407.	1.0	0
2485	Joint Motion Correction and Super Resolution for Cardiac Segmentation via Latent Optimisation. Lecture Notes in Computer Science, 2021, , 14-24.	1.0	9
2486	Exploiting Deep Generative Prior for Versatile Image Restoration and Manipulation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7474-7489.	9.7	73
2487	Attention-Based Tri-UNet for Remote Sensing Image Pan-Sharpener. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3719-3732.	2.3	19
2488	A practical solution based on convolutional neural network for non-intrusive load monitoring. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 9775-9789.	3.3	42
2489	RSAN: Residual Subtraction and Attention Network for Single Image Super-Resolution. , 2021, , .		4
2490	DeepDT: Generative Adversarial Network for High-Resolution Climate Prediction. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
2491	RBDN: Residual Bottleneck Dense Network for Image Super-Resolution. IEEE Access, 2021, 9, 103440-103451.	2.6	8
2492	HyperCon: Image-To-Video Model Transfer for Video-To-Video Translation Tasks. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
2493	Cross View Capture for Stereo Image Super-Resolution. IEEE Transactions on Multimedia, 2022, 24, 3074-3086.	5.2	46
2494	Structure-Preserving and Color-Restoring Up-Sampling for Single Low-Light Image. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1889-1902.	5.6	12
2495	Inverse-Based Approach to Explaining and Visualizing Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7318-7329.	7.2	6
2496	Super-Resolution-Based Change Detection Network With Stacked Attention Module for Images With Different Resolutions. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	53
2497	Hybrid-Scale Self-Similarity Exploitation for Remote Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	26
2498	The promise and peril of deep learning in microscopy. Nature Methods, 2021, 18, 131-132.	9.0	27
2499	Light Field Super-Resolution Based on Spatial and Angular Attention. Lecture Notes in Computer Science, 2021, , 314-325.	1.0	3
2500	Edge Profile Super Resolution. IEEE Access, 2021, 9, 121305-121315.	2.6	1
2501	Super Resolution of Medical Images Using Generative Adversarial Networks. , 2021, , .		0
2502	Real-time video super-resolution using lightweight depthwise separable group convolutions with channel shuffling. Journal of Visual Communication and Image Representation, 2021, 75, 103038.	1.7	5
2503	Research on image super-resolution based on attention mechanism and multi-scale. Journal of Physics: Conference Series, 2021, 1792, 012025.	0.3	2
2504	Deep Residual Dense Network for Single Image Super-Resolution. Electronics (Switzerland), 2021, 10, 555.	1.8	13
2505	Dynamic Weight of Adaptive Information Density Network for Image Super-Resolution. , 2021, , .		0
2506	Color Image Restoration Exploiting Inter-Channel Correlation With a 3-Stage CNN. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 174-189.	7.3	10
2507	Building a patient-specific model using transfer learning for four-dimensional cone beam computed tomography augmentation. Quantitative Imaging in Medicine and Surgery, 2021, 11, 540-555.	1.1	7
2508	Combined 3D super-resolution, de-noising and partial volume correction for percutaneous ablation. , 2021, , .		0
2509	Image super-resolution based on deep neural network of multiple attention mechanism. Journal of Visual Communication and Image Representation, 2021, 75, 103019.	1.7	24
2510	Alternatives to Bicubic Interpolation Considering FPGA Hardware Resource Consumption. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 247-258.	2.1	7

#	ARTICLE	IF	CITATIONS
2511	Double-flow convolutional neural network for rapid large field of view Fourier ptychographic reconstruction. <i>Journal of Biophotonics</i> , 2021, 14, e202000444.	1.1	5
2512	Multi-FAN: multi-spectral mosaic super-resolution via multi-scale feature aggregation network. <i>Machine Vision and Applications</i> , 2021, 32, 1.	1.7	0
2513	A Comprehensive Study on Computational Pansharpening Techniques for Remote Sensing Images. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 4961-4978.	6.0	17
2514	Fusion diversion network for fast, accurate and lightweight single image super-resolution. <i>Signal, Image and Video Processing</i> , 2021, 15, 1351-1359.	1.7	1
2515	High Accuracy Interpolation of DEM Using Generative Adversarial Network. <i>Remote Sensing</i> , 2021, 13, 676.	1.8	5
2516	Kernel-attended residual network for single image super-resolution. <i>Knowledge-Based Systems</i> , 2021, 213, 106663.	4.0	14
2517	A plexus-convolutional neural network framework for fast remote sensing image super-resolution in wavelet domain. <i>IET Image Processing</i> , 2021, 15, 1679-1687.	1.4	7
2518	Spatiotemporal Fusion of Formosat-2 and Landsat-8 Satellite Images: A Comparison of "Super Resolution-Then-Blend" and "Blend-Then-Super Resolution" Approaches. <i>Remote Sensing</i> , 2021, 13, 606.	1.8	8
2519	Multi-Grained Attention Networks for Single Image Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021, 31, 512-522.	5.6	42
2520	4.7 A 91mW 90fps Super-Resolution Processor for Full HD Images. , 2021, , .		3
2521	Downscaling of MODIS NDVI by Using a Convolutional Neural Network-Based Model with Higher Resolution SAR Data. <i>Remote Sensing</i> , 2021, 13, 732.	1.8	15
2522	Clinical Enhancement in AI-Based Post-processed Fast-Scan Low-Dose CBCT for Head and Neck Adaptive Radiotherapy. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, 614384.	2.0	9
2523	Residual encoder-decoder up-sampling for structural preservation in noise removal. <i>Multimedia Tools and Applications</i> , 2021, 80, 19441-19457.	2.6	2
2524	V2V: A Deep Learning Approach to Variable-to-Variable Selection and Translation for Multivariate Time-Varying Data. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2021, 27, 1290-1300.	2.9	23
2525	Robust Feature Extraction for Geochemical Anomaly Recognition Using a Stacked Convolutional Denoising Autoencoder. <i>Mathematical Geosciences</i> , 2022, 54, 623-644.	1.4	47
2526	Compact Deep Color Features for Remote Sensing Scene Classification. <i>Neural Processing Letters</i> , 2021, 53, 1523-1544.	2.0	9
2527	Single image deraining using Context Aggregation Recurrent Network. <i>Journal of Visual Communication and Image Representation</i> , 2021, 75, 103039.	1.7	2
2528	A Novel Face Super-Resolution Method Based on Parallel Imaging and OpenVINO. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-9.	0.6	2

#	ARTICLE	IF	CITATIONS
2529	Logarithmic Retinex Decomposition-Aided Convolutional Neural Networks for Low-Light Image Enhancement. , 2021, , .		0
2530	Video super-resolution with non-local alignment network. IET Image Processing, 2021, 15, 1655-1667.	1.4	2
2531	Deep Learning-Based Spatiotemporal Fusion Approach for Producing High-Resolution NDVI Time-Series Datasets. Canadian Journal of Remote Sensing, 2021, 47, 182-197.	1.1	9
2532	MFRNet: A New CNN Architecture for Post-Processing and In-loop Filtering. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 378-387.	7.3	31
2533	Efficient, high-resolution topology optimization method based on convolutional neural networks. Frontiers of Mechanical Engineering, 2021, 16, 80-96.	2.5	23
2534	A Fluid Flow Data Set for Machine Learning and its Application to Neural Flow Map Interpolation. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1279-1289.	2.9	22
2535	Performance evaluation of urban environmental governance in Anhui Province based on spatial and temporal differentiation analyses. Environmental Science and Pollution Research, 2021, 28, 37400-37412.	2.7	3
2536	Image Quality Transfer with Auto-Encoding Applied to dMRI Super-Resolution. , 2021, , .		1
2537	Single Image Super-Resolution Reconstruction Network With Dual Attention Mechanism. , 2021, , .		0
2538	Deep learning for anisoplanatic optical turbulence mitigation in long-range imaging. Optical Engineering, 2021, 60, .	0.5	6
2539	A lightweight iterative error reconstruction network for infrared image super-resolution in smart grid. Sustainable Cities and Society, 2021, 66, 102520.	5.1	9
2540	Edge-Enhanced with Feedback Attention Network for Image Super-Resolution. Sensors, 2021, 21, 2064.	2.1	1
2541	Experimental Comparison of Multi-Sharpening Methods Applied To Sentinel-2 MSI and Sentinel-3 OLCI Images. , 2021, , .		2
2542	Algorithm Unrolling: Interpretable, Efficient Deep Learning for Signal and Image Processing. IEEE Signal Processing Magazine, 2021, 38, 18-44.	4.6	495
2543	Gradient-Sensitive Optimization for Convolutional Neural Networks. Computational Intelligence and Neuroscience, 2021, 2021, 1-16.	1.1	4
2544	Super-Resolution Enhancement Method Based on Generative Adversarial Network for Integral Imaging Microscopy. Sensors, 2021, 21, 2164.	2.1	9
2545	Super resolution using generative adversarial networks. Materials Today: Proceedings, 2021, , .	0.9	0
2546	Cascading residual-residual attention generative adversarial network for image super resolution. Soft Computing, 2021, 25, 9651-9662.	2.1	1

#	ARTICLE	IF	CITATIONS
2547	Gradient information distillation network for real-time single-image super-resolution. Journal of Real-Time Image Processing, 2021, 18, 333-344.	2.2	12
2548	Panchromatic Image Super-Resolution Via Self Attention-Augmented Wasserstein Generative Adversarial Network. Sensors, 2021, 21, 2158.	2.1	6
2549	Addressing signal alterations induced in CT images by deep learning processing: A preliminary phantom study. Physica Medica, 2021, 83, 88-100.	0.4	7
2550	SplitSR. , 2021, 5, 1-20.		13
2551	Hyperspectral and Multispectral Image Fusion Using a Multi-Level Propagation Learning Network. , 2021, , .		1
2552	Multi-scale residual denoising GAN model for producing super-resolution CTA images. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 1515-1524.	3.3	6
2553	Memory- and time-efficient dense network for single-image super-resolution. IET Signal Processing, 2021, 15, 141-152.	0.9	4
2554	Positron emission tomography image enhancement using magnetic resonance images and U-net structure. Computers and Electrical Engineering, 2021, 90, 106973.	3.0	3
2555	A New Benchmark Based on Recent Advances in Multispectral Pansharpening: Revisiting Pansharpening With Classical and Emerging Pansharpening Methods. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 53-81.	4.9	175
2556	Deep Learning for Seismic Inverse Problems: Toward the Acceleration of Geophysical Analysis Workflows. IEEE Signal Processing Magazine, 2021, 38, 89-119.	4.6	65
2557	An Overview of Current Deep Learned Rendering Technologies. , 2021, , .		0
2558	Research for Face Image Super-Resolution Reconstruction Based on Wavelet Transform and SRGAN. , 2021, , .		7
2559	Aerial image super-resolution based on deep recursive dense network for disaster area surveillance. Personal and Ubiquitous Computing, 2022, 26, 1205-1214.	1.9	5
2560	Radiomic and radiogenomic modeling for radiotherapy: strategies, pitfalls, and challenges. Journal of Medical Imaging, 2021, 8, 031902.	0.8	8
2561	Online Phase Measurement Profilometry for a Fast-Moving Object. Applied Sciences (Switzerland), 2021, 11, 2805.	1.3	3
2562	Remote Sensing Image Super-Resolution for the Visual System of a Flight Simulator: Dataset and Baseline. Aerospace, 2021, 8, 76.	1.1	1
2563	Remote Sensing Image Fusion Using Multi-Scale Convolutional Neural Network. Journal of the Indian Society of Remote Sensing, 2021, 49, 1677-1687.	1.2	1
2564	Do Radiographic Assessments of Periodontal Bone Loss Improve with Deep Learning Methods for Enhanced Image Resolution?. Sensors, 2021, 21, 2013.	2.1	17

#	ARTICLE	IF	CITATIONS
2565	MSDU-Net: A Multi-Scale Dilated U-Net for Blur Detection. <i>Sensors</i> , 2021, 21, 1873.	2.1	8
2566	Attenuation correction using deep learning for brain perfusion SPECT images. <i>Annals of Nuclear Medicine</i> , 2021, 35, 589-599.	1.2	10
2567	Super resolution convolutional neural network based pre-processing for automatic polyp detection in colonoscopy images. <i>Computers and Electrical Engineering</i> , 2021, 90, 106959.	3.0	13
2568	Neural network model assisted Fourier ptychography with Zernike aberration recovery and total variation constraint. <i>Journal of Biomedical Optics</i> , 2021, 26, .	1.4	9
2569	Neural Network for Enhancing Microscopic Resolution Based on Images from Scanning Electron Microscope. <i>Sensors</i> , 2021, 21, 2139.	2.1	0
2570	MSDRN: Pansharpener of Multispectral Images via Multi-Scale Deep Residual Network. <i>Remote Sensing</i> , 2021, 13, 1200.	1.8	21
2571	Deep Neural Network-Based Permittivity Inversions for Ground Penetrating Radar Data. <i>IEEE Sensors Journal</i> , 2021, 21, 8172-8183.	2.4	28
2572	Machine learning in Magnetic Resonance Imaging: Image reconstruction. <i>Physica Medica</i> , 2021, 83, 79-87.	0.4	29
2573	Artificial intelligence in OCT angiography. <i>Progress in Retinal and Eye Research</i> , 2021, 85, 100965.	7.3	54
2574	Lightweight Single Image Super-resolution with Dense Connection Distillation Network. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2021, 17, 1-17.	3.0	7
2575	Complex-Valued Pix2pix-Deep Neural Network for Nonlinear Electromagnetic Inverse Scattering. <i>Electronics (Switzerland)</i> , 2021, 10, 752.	1.8	16
2576	A convolutional strategy on unstructured mesh for the adjoint vector modeling. <i>Physics of Fluids</i> , 2021, 33, .	1.6	22
2577	ReHiC: Enhancing Hi-C data resolution via residual convolutional network. <i>Journal of Bioinformatics and Computational Biology</i> , 2021, 19, 2150001.	0.3	2
2578	Deep Learning Based Channel Estimation with Flexible Delay and Doppler Networks for 5G NR. , 2021, , .		3
2579	Medical image super-resolution using a relativistic average generative adversarial network. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2021, 992, 165053.	0.7	14
2580	Successive Graph Convolutional Network for Image De-raining. <i>International Journal of Computer Vision</i> , 2021, 129, 1691-1711.	10.9	31
2581	DeepS: a web server for image optical sectioning and super resolution microscopy based on a deep learning framework. <i>Bioinformatics</i> , 2021, 37, 3086-3087.	1.8	2
2582	Auroral Image Super-Resolution via Dynamic Nonlocal Intensity Fusion and Low-rank Regularization. , 2021, , .		1



#	ARTICLE	IF	CITATIONS
2583	DPSRGAN: Dilation Patch Super-Resolution Generative Adversarial Networks. , 2021, , .		2
2584	An Efficient Internet Map Tiles Rendering Approach on High Resolution Devices. Journal of Spatial Science, 0, , 1-19.	1.0	1
2585	Super-resolution reconstruction using channel splitting residual edge-guided network for wideband magnetic resonance imaging. , 2021, , .		0
2586	Deformable and residual convolutional network for image super-resolution. Applied Intelligence, 2022, 52, 295-304.	3.3	12
2587	Improved SRCNN for super-resolution reconstruction of retinal images. , 2021, , .		3
2588	Improved image denoising via RAISR with fewer filters. Computational Visual Media, 2021, 7, 499-511.	10.8	2
2589	Medical Images Super Resolution Reconstruction based on Residual Network. , 2021, , .		2
2590	From coarse to fine: A two stage conditional generative adversarial network for single image rain removal. , 2021, 111, 102985.		5
2591	Developing a robot with computer vision for automating business processes of the industrial complex. Journal of Physics: Conference Series, 2021, 1889, 022024.	0.3	3
2592	Text Recognition in the Wild. ACM Computing Surveys, 2022, 54, 1-35.	16.1	97
2593	Semantic-Driven Face Hallucination Based on Residual Network. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 214-228.	3.8	12
2594	E-ComSupResNet: Enhanced Face Super-Resolution Through Compact Network. IEEE Transactions on Biometrics, Behavior, and Identity Science, 2021, 3, 166-179.	3.8	6
2595	Multimodal Low Resolution Face and Frontal Gait Recognition from Surveillance Video. Electronics (Switzerland), 2021, 10, 1013.	1.8	9
2596	Real-time video super resolution network using recurrent multi-branch dilated convolutions. Signal Processing: Image Communication, 2021, 93, 116167.	1.8	6
2597	Current landscape and potential future applications of artificial intelligence in medical physics and radiotherapy. Artificial Intelligence in Medical Imaging, 2021, 2, 37-55.	0.3	2
2598	FPN-GAN: Multi-class Small Object Detection in Remote Sensing Images. , 2021, , .		6
2599	Neural Reversible Steganography with Long Short-Term Memory. Security and Communication Networks, 2021, 2021, 1-14.	1.0	17
2600	Disparity estimation method of electric inspection robot based on lightweight neural network. , 2021, , .		0



#	ARTICLE	IF	CITATIONS
2601	Deep Learning Based Image Enhancement using Super Resolution. International Journal of Advanced Research in Science, Communication and Technology, 0, , 190-194.	0.0	0
2602	A Partial Hierarchical Model for Online Low-Resolution Wear Particle Images Classification. Computational Intelligence and Neuroscience, 2021, 2021, 1-10.	1.1	0
2603	An iterative MPDâ€”CNN structure for massive MIMO detection under correlated noise channels. IET Communications, 2021, 15, 1632.	1.5	1
2604	Adversarial Gaussian Denoiser for Multiple-Level Image Denoising. Sensors, 2021, 21, 2998.	2.1	12
2605	Reference-Based Texture Transfer For Single Image Super-Resolution Of Magnetic Resonance Images. , 2021, , .		2
2606	Real-time prediction of spatial raster time series: a context-aware autonomous learning model. Journal of Real-Time Image Processing, 2021, 18, 1591-1605.	2.2	6
2607	Degradation learning for unsupervised hyperspectral image super-resolution based on generative adversarial network. Signal, Image and Video Processing, 2021, 15, 1695-1703.	1.7	5
2609	Image content-dependent steerable kernels. Visual Computer, 0, , 1.	2.5	1
2610	Application of distributed data system and fuzzy feature recognition in school enterprise cooperative talent training mode. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	2
2611	Single Image Super Resolution Using Multi-path Convolutional Neural Network. , 2021, , .		1
2612	Hierarchical Convolutional Neural Network for Infrared Image Super-Resolution. MÃ—krosistemi, ElektronÃ—ka Ta Akustika, 2021, 26, .	0.2	1
2613	Video Compression Artifacts Removal with Efficient Non-local Block. , 2021, , .		0
2614	Single image super-resolution using multi-scale feature enhancement attention residual network. Optik, 2021, 231, 166359.	1.4	7
2615	MultiÃ—scale audio super resolution via deep pyramid wavelet convolutional neural network. Electronics Letters, 2021, 57, 520-522.	0.5	1
2616	Super-resolution decision-making tool using deep convolution neural networks for panchromatic images. Multimedia Tools and Applications, 2021, 80, 25033.	2.6	3
2617	Spatio-Temporal Downscaling of Climate Data Using Convolutional and Error-Predicting Neural Networks. Frontiers in Climate, 2021, 3, .	1.3	15
2618	Unpaired image to image transformation via informative coupled generative adversarial networks. Frontiers of Computer Science, 2021, 15, 1.	1.6	2
2619	Human face super-resolution on poor quality surveillance video footage. Neural Computing and Applications, 2021, 33, 13505-13523.	3.2	10

#	ARTICLE	IF	CITATIONS
2620	A Simultaneous Multi-Object Zooming System Using an Ultrafast Pan-Tilt Camera. IEEE Sensors Journal, 2021, 21, 9436-9448.	2.4	17
2621	Deep Learning Framework For Mobile Microscopy. , 2021, , .		1
2622	Adversarial Reconstruction CNN for Illumination-Robust Frontal Face Image Recovery and Recognition. International Journal of Cognitive Informatics and Natural Intelligence, 2021, 15, 18-33.	0.4	8
2623	Spatial resolution enhancement method for Landsat imagery using a Generative Adversarial Network. Remote Sensing Letters, 2021, 12, 654-665.	0.6	10
2624	Deep Learning Algorithms for Single Image Super-Resolution: A Systematic Review. Electronics (Switzerland), 2021, 10, 867.	1.8	29
2625	Deeper super-resolution generative adversarial network with gradient penalty for sonar image enhancement. Multimedia Tools and Applications, 2021, 80, 28087-28107.	2.6	7
2626	Accelerating mini-batch SARAH by step size rules. Information Sciences, 2021, 558, 157-173.	4.0	6
2627	Blind image deblurring for a close scene under a 6-DOF motion path. Sensor Review, 2021, 41, 216-226.	1.0	0
2628	Deep Generative Adversarial Networks: Applications in Musculoskeletal Imaging. Radiology: Artificial Intelligence, 2021, 3, e200157.	3.0	16
2629	Revolution: A Spatial-specific Convolution for Image Super-Resolution. , 2021, , .		0
2630	Deep Intelligent Neural Network for Medical Geographic Small-target Intelligent Satellite Image Super-resolution. Journal of Imaging Science and Technology, 2021, 65, 030406-1-030406-10.	0.3	4
2631	Multi-Feature Super-Resolution Network for Cloth Wrinkle Synthesis. Journal of Computer Science and Technology, 2021, 36, 478-493.	0.9	7
2632	Fast Target Localization Method for FMCW MIMO Radar via VDSR Neural Network. Remote Sensing, 2021, 13, 1956.	1.8	19
2633	Deep model-based magnetic resonance parameter mapping network (DOPAMINE) for fast T1 mapping using variable flip angle method. Medical Image Analysis, 2021, 70, 102017.	7.0	20
2634	Super-Resolution Image Reconstruction Algorithm Based on Improved Information Distillation Network. , 2021, , .		0
2635	Multi-hour and multi-site air quality index forecasting in Beijing using CNN, LSTM, CNN-LSTM, and spatiotemporal clustering. Expert Systems With Applications, 2021, 169, 114513.	4.4	190
2636	Super-Resolution Enhanced Medical Image Diagnosis With Sample Affinity Interaction. IEEE Transactions on Medical Imaging, 2021, 40, 1377-1389.	5.4	41
2637	Research on obtaining pseudo CT images based on stacked generative adversarial network. Quantitative Imaging in Medicine and Surgery, 2021, 11, 1983-2000.	1.1	3

#	ARTICLE	IF	CITATIONS
2638	Projected Distribution Loss for Image Enhancement. , 2021, , .		5
2639	Object Recognition in Images with Low-Resolution using Convolutional Neural Network. Journal of Physics: Conference Series, 2021, 1916, 012049.	0.3	0
2640	Dyeing creation: a textile pattern discovery and fabric image generation method. Multimedia Tools and Applications, 2021, 80, 26511.	2.6	0
2641	MuRNet: A deep recursive network for super resolution of bicubically interpolated images. Signal Processing: Image Communication, 2021, 94, 116228.	1.8	7
2642	Learned Greedy Method (LGM): A novel neural architecture for sparse coding and beyond. Journal of Visual Communication and Image Representation, 2021, 77, 103095.	1.7	8
2643	Enhanced Single Image Super Resolution Method Using Lightweight Multi-Scale Channel Dense Network. Sensors, 2021, 21, 3351.	2.1	9
2644	XCycles Backprojection Acoustic Super-Resolution. Sensors, 2021, 21, 3453.	2.1	2
2646	Single-Core Multiscale Residual Network for the Super Resolution of Liquid Metal Specimen Images. Machine Learning and Knowledge Extraction, 2021, 3, 453-466.	3.2	0
2647	Super-Resolution Capacitive Touchscreens. , 2021, , .		9
2648	Spatial and temporal super-resolution for fluorescence microscopy by a recurrent neural network. Optics Express, 2021, 29, 15747.	1.7	4
2649	LRD-Net: A Lightweight Deep Network for Low-light Image Enhancement. , 2021, , .		1
2650	Underwater image super-resolution using multi-stage information distillation networks. Journal of Visual Communication and Image Representation, 2021, 77, 103136.	1.7	9
2651	Joint distortion rectification and super-resolution for self-driving scene perception. Neurocomputing, 2021, 435, 176-185.	3.5	6
2652	Generating High-Resolution Climate Change Projections Using Super-Resolution Convolutional LSTM Neural Networks. , 2021, , .		7
2653	Research on Image Super-Resolution Reconstruction Based on Transformer. , 2021, , .		3
2654	3D Carbonate Digital Rock Reconstruction Using Progressive Growing GAN. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021687.	1.4	22
2655	Research on Statistical Downscaling Method of Meteorological Data Based on Photovoltaic Power Forecast. , 2021, , .		0
2656	Perceptual-based super-resolution reconstruction using image-specific degradation estimation. Journal of Electronic Imaging, 2021, 30, .	0.5	0

#	ARTICLE	IF	CITATIONS
2657	Cephalogram synthesis and landmark detection in dental cone-beam CT systems. Medical Image Analysis, 2021, 70, 102028.	7.0	11
2658	AI-assisted superresolution cosmological simulations. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	46
2659	A Dense Tensor Accelerator with Data Exchange Mesh for DNN and Vision Workloads. , 2021, , .		0
2660	Great Paintings in Fully Immersive Virtual Reality. , 2021, , .		2
2661	Small Object Detection in Remote Sensing Images with Residual Feature Aggregation-Based Super-Resolution and Object Detector Network. Remote Sensing, 2021, 13, 1854.	1.8	35
2662	Towards Efficient Video Detection Object Super-Resolution with Deep Fusion Network for Public Safety. Security and Communication Networks, 2021, 2021, 1-14.	1.0	4
2663	Hybrid Attention Based Residual Network for Pansharping. Remote Sensing, 2021, 13, 1962.	1.8	13
2664	Inverse renormalization group based on image super-resolution using deep convolutional networks. Scientific Reports, 2021, 11, 9617.	1.6	7
2665	Terahertz image super-resolution based on a complex convolutional neural network. Optics Letters, 2021, 46, 3123.	1.7	28
2666	Single-Image Super-Resolution Using Panchromatic Gradient Prior and Variational Model. Mathematical Problems in Engineering, 2021, 2021, 1-11.	0.6	1
2667	Automatic Lung Segmentation Algorithm on Chest X-ray Images Based on Fusion Variational Auto-Encoder and Three-Terminal Attention Mechanism. Symmetry, 2021, 13, 814.	1.1	20
2668	Image Compression Based on Deep Learning: A Review. Asian Journal of Research in Computer Science, 0, , 62-76.	0.0	11
2669	Light Field Image Quality Enhancement by a Lightweight Deformable Deep Learning Framework for Intelligent Transportation Systems. Electronics (Switzerland), 2021, 10, 1136.	1.8	8
2670	Remote sensing image super-resolution based on convolutional blind denoising adaptive dense connection. IET Image Processing, 2021, 15, 2508-2520.	1.4	5
2671	Efficient residual attention network for single image super-resolution. Applied Intelligence, 2022, 52, 652-661.	3.3	8
2672	MISNet: Multi-Resolution Level Feature Interpolating Ultralight-Weight Residual Image Super Resolution Network. , 2021, , .		0
2673	An Adaptive Automatic Approach to Filtering Empty Images from Camera Traps Using a Deep Learning Model. Wildlife Society Bulletin, 2021, 45, 230-236.	0.4	5
2674	Research on High Sparse Sampling CT Image Reconstruction Algorithm Based on Convolutional Neural Networks. IOP Conference Series: Earth and Environmental Science, 2021, 769, 042005.	0.2	1

#	ARTICLE	IF	CITATIONS
2675	Dual Attention with the Self-Attention Alignment for Efficient Video Super-resolution. Cognitive Computation, 2022, 14, 1140-1151.	3.6	2
2676	Frequency-domain loss function for deep exposure correction of dark images. Signal, Image and Video Processing, 2021, 15, 1829-1836.	1.7	4
2677	Pansharpening of WorldView-2 Data via Graph Regularized Sparse Coding and Adaptive Coupled Dictionary. Sensors, 2021, 21, 3586.	2.1	0
2678	Image Degradation Modeling for Real-World Super Resolution via Conditional Normalizing Flow. Applied Sciences (Switzerland), 2021, 11, 4735.	1.3	0
2679	A Super-resolution Image Reconstruction Algorithm of Molten Droplet Based on Multi-feature Fusion Method. , 2021, , .		0
2680	A Lightweight Dense Connected Approach with Attention on Single Image Super-Resolution. Electronics (Switzerland), 2021, 10, 1234.	1.8	6
2681	Super-Resolution Based on Generative Adversarial Network for HRTEM Images. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2154027.	0.7	0
2682	SDPNet: A Deep Network for Pan-Sharpener With Enhanced Information Representation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4120-4134.	2.7	45
2683	MorphoNet: A Deep Image Super Resolution Network Using Hierarchical and Morphological Feature Generating Residual Blocks. , 2021, , .		1
2684	A novel method for multispectral image pansharpening based on high dimensional model representation. Expert Systems With Applications, 2021, 170, 114512.	4.4	11
2685	A Building Segmentation Network Based on Improved Spatial Pyramid in Remote Sensing Images. Applied Sciences (Switzerland), 2021, 11, 5069.	1.3	1
2686	Bayesian Reasoning with Trained Neural Networks. Entropy, 2021, 23, 693.	1.1	2
2687	Optical Remote Sensing Image Denoising and Super-Resolution Reconstructing Using Optimized Generative Network in Wavelet Transform Domain. Remote Sensing, 2021, 13, 1858.	1.8	33
2688	Single-frame super-resolution for remote sensing images based on improved deep recursive residual network. Eurasip Journal on Image and Video Processing, 2021, 2021, .	1.7	5
2689	Anchor neighborhood embedding based single-image super-resolution reconstruction with similarity threshold adjustment. , 2021, , .		0
2690	Bayesian retinex underwater image enhancement. Engineering Applications of Artificial Intelligence, 2021, 101, 104171.	4.3	144
2691	Deep learning <sup>super</sup>-resolution</sup> electron microscopy based on deep residual attention network. International Journal of Imaging Systems and Technology, 2021, 31, 2158-2169.	2.7	3
2692	Improvement of image quality for pancreatic cancer using deep learning-generated virtual monochromatic images: Comparison with single-energy computed tomography. Physica Medica, 2021, 85, 8-14.	0.4	3

#	ARTICLE	IF	CITATIONS
2693	Image High Frequency Information Restoration Algorithm Based on Deep Learning. IOP Conference Series: Earth and Environmental Science, 2021, 769, 032008.	0.2	1
2694	3D pore space reconstruction using deep residual deconvolution networks. Computational Geosciences, 2021, 25, 1605-1620.	1.2	2
2695	Enhancement of cerebrovascular 4D flow MRI velocity fields using machine learning and computational fluid dynamics simulation data. Scientific Reports, 2021, 11, 10240.	1.6	36
2696	Convolutional neural network with median layers for denoising salt-and-pepper contaminations. Neurocomputing, 2021, 442, 26-35.	3.5	16
2697	Bi-directional skip connection feature pyramid network and sub-pixel convolution for high-quality object detection. Neurocomputing, 2021, 440, 185-196.	3.5	8
2698	Satellite Imagery Super-Resolution Using Squeeze-and-Excitation-BasedÂGAN. International Journal of Aeronautical and Space Sciences, 2021, 22, 1481-1492.	1.0	11
2699	PMENet: phase map enhancement for Fourier transform profilometry using deep learning. Measurement Science and Technology, 2021, 32, 105001.	1.4	12
2700	Geometrical-Based Generative Adversarial Network to Enhance Digital Rock Image Quality. Physical Review Applied, 2021, 15, .	1.5	11
2701	Unified framework of dense convolution neural network for image super resolution. Materials Today: Proceedings, 2021, , .	0.9	1
2702	Ret-GAN: Retinal Image Enhancement using Generative Adversarial Networks. , 2021, , .		3
2703	Lowâ€light image enhancement based on exponential Retinex variational model. IET Image Processing, 2021, 15, 3003-3019.	1.4	3
2704	Convolution neural network with low operation FLOPS and high accuracy for image recognition. Journal of Real-Time Image Processing, 2021, 18, 1309-1319.	2.2	8
2705	Super-resolution of remotely sensed data using channel attention based deep learning approach. International Journal of Remote Sensing, 2021, 42, 6048-6065.	1.3	8
2706	Multimodal Generative Neural Network for Anomaly Events Detection and Localization in Videos. , 2021, , .		1
2707	Two-stage Network For Single Image Super-Resolution. , 2021, , .		4
2708	A Deep Learning-based Approach to 5G-New Radio Channel Estimation. , 2021, , .		1
2709	Multiscale generative adversarial network for <scp>realâ€world superâ€resolution</scp>. Concurrency Computation Practice and Experience, 2021, 33, e6430.	1.4	27
2710	VSpSR: Explorable Super-Resolution via Variational Sparse Representation. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
2711	Remote sensing image recovery via enhanced residual learning and dual-luminance scheme. Knowledge-Based Systems, 2021, 222, 107013.	4.0	11
2712	Stochastic Restoration of Heavily Compressed Musical Audio Using Generative Adversarial Networks. Electronics (Switzerland), 2021, 10, 1349.	1.8	4
2713	A Practical Approach for Rate-Distortion-Perception Analysis in Learned Image Compression. , 2021, , .		1
2714	A Progressive Architecture for Learned Fractional Downsampling. , 2021, , .		3
2715	Robust Facial Image Super-Resolution by Kernel Locality-Constrained Coupled-Layer Regression. ACM Transactions on Internet Technology, 2021, 21, 1-15.	3.0	3
2716	Fast and High-Resolution Neonatal Brain MRI Through Super-Resolution Reconstruction From Acquisitions With Variable Slice Selection Direction. Frontiers in Neuroscience, 2021, 15, 636268.	1.4	13
2717	Deep blur detection network with boundary-aware multi-scale features. Connection Science, 2022, 34, 766-784.	1.8	6
2718	Single image super-resolution via hybrid resolution NSST prediction. Computer Vision and Image Understanding, 2021, 207, 103202.	3.0	5
2719	A generative model method for unsupervised multispectral image fusion in remote sensing. Signal, Image and Video Processing, 2022, 16, 63-71.	1.7	8
2720	An image authentication and recovery system based on discrete wavelet transform and convolutional neural networks. Multimedia Tools and Applications, 2022, 81, 19351-19375.	2.6	11
2721	PSMD-Net: A Novel Pan-Sharpening Method Based on a Multiscale Dense Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4957-4971.	2.7	23
2722	SatGAN: Satellite Image Generation using Conditional Adversarial Networks. , 2021, , .		1
2723	Quality Improvement of Dot Diffused Block Truncation Coding using Convolutional Neural Networks. , 2021, , .		0
2724	Overcoming Measurement Inconsistency In Deep Learning For Linear Inverse Problems: Applications In Medical Imaging. , 2021, , .		2
2725	HOCA: Higher-Order Channel Attention for Single Image Super-Resolution. , 2021, , .		3
2726	Continuous Cnn For Nonuniform Time Series. , 2021, , .		0
2727	Parallaxâ€based secondâ€order mixed attention for stereo image superâ€resolution. IET Computer Vision, 0, , .	1.3	2
2728	Hyperspectral Image Super-Resolution under the Guidance of Deep Gradient Information. Remote Sensing, 2021, 13, 2382.	1.8	11



#	ARTICLE	IF	CITATIONS
2729	UPDResNN: A Deep Light-Weight Image Upsampling and Deblurring Residual Neural Network. IEEE Transactions on Broadcasting, 2021, 67, 538-548.	2.5	9
2730	Estimating subpixel turbulent heat flux over leads from MODIS thermal infrared imagery with deep learning. Cryosphere, 2021, 15, 2835-2856.	1.5	2
2731	Improved SRCNN remote sensing image spatio-temporal fusion based on multi-stream data input and attention mechanism: taking Landsat8 and MODIS remote sensing images as examples. , 2021, , .		0
2732	Integration of gradient guidance and edge enhancement into super-resolution for small object detection in aerial images. IET Image Processing, 2021, 15, 3037-3052.	1.4	1
2733	Data-driven Approaches for Discovery and Prediction of User-preferred Picture Settings on Smart TVs. , 2021, , .		1
2734	Multimodal Medical Supervised Image Fusion Method by CNN. Frontiers in Neuroscience, 2021, 15, 638976.	1.4	15
2735	MDCwFB: A Multilevel Dense Connection Network with Feedback Connections for Pansharpening. Remote Sensing, 2021, 13, 2218.	1.8	4
2736	Real-Time Speech Frequency Bandwidth Extension. , 2021, , .		15
2737	Perceptual Quality Assessment for Recognizing True and Pseudo 4k Content. , 2021, , .		2
2738	Real-Time Quantized Image Super-Resolution on Mobile NPUs, Mobile AI 2021 Challenge: Report. , 2021, , .		43
2739	Thermal Image Super-Resolution Challenge - PBVS 2021. , 2021, , .		5
2740	Learning A Cascaded Non-Local Residual Network for Super-resolving Blurry Images. , 2021, , .		6
2741	Super-resolving material microstructure image via deep learning for microstructure characterization and mechanical behavior analysis. Npj Computational Materials, 2021, 7, .	3.5	24
2742	Research on Super-Resolution Reconstruction Algorithm of Image Based on Generative Adversarial Network. Journal of Physics: Conference Series, 2021, 1944, 012014.	0.3	3
2743	Weak texture information map guided image super-resolution with deep residual networks. Multimedia Tools and Applications, 2022, 81, 34281-34294.	2.6	3
2744	Variational AutoEncoder for Reference based Image Super-Resolution. , 2021, , .		9
2745	Weighted Gaussian Process Regression for Single Image Super-resolution Based on Randomized Sample Clustering and Augmentation. , 2021, , .		0
2746	DCLNet: Dual Closed-loop Networks for face super-resolution. Knowledge-Based Systems, 2021, 222, 106987.	4.0	15



#	ARTICLE	IF	CITATIONS
2747	Lightweight and Accurate Single Image Super-Resolution with Channel Segregation Network. , 2021, , .		4
2748	Photoacoustic microscopy with sparse data by convolutional neural networks. Photoacoustics, 2021, 22, 100242.	4.4	23
2749	Image super-resolution via enhanced multi-scale residual network. Journal of Parallel and Distributed Computing, 2021, 152, 57-66.	2.7	6
2750	Global context guided hierarchically residual feature refinement network for defocus blur detection. Signal Processing, 2021, 183, 107996.	2.1	6
2751	Enhancement for License Plate Recognition using Image Super Resolution technique. , 2021, , .		0
2752	Single image super-resolution using global enhanced upscale network. Applied Intelligence, 0, , 1.	3.3	3
2753	A Pansharpening Generative Adversarial Network with Multilevel Structure Enhancement and a Multistream Fusion Architecture. Remote Sensing, 2021, 13, 2423.	1.8	3
2754	Superresolution Imaging With a Deep Multipath Network for the Reconstruction of Satellite Cloud Images. Earth and Space Science, 2021, 8, e2020EA001559.	1.1	2
2755	A novel edge boosting approach for image super-resolution. Evolutionary Intelligence, 0, , 1.	2.3	2
2756	A Distributed Fusion Framework of Multispectral and Panchromatic Images Based on Residual Network. Remote Sensing, 2021, 13, 2556.	1.8	6
2757	Super Resolution of Magnetic Resonance Images. Journal of Imaging, 2021, 7, 101.	1.7	2
2758	Multi-scale channel network based on filter pruning for image super-resolution. Optik, 2021, 236, 166641.	1.4	3
2759	Image Enhancement and Improvement Algorithm Based on Esrgan Singal Frame Remote Sensing Image. Journal of Physics: Conference Series, 2021, 1952, 022012.	0.3	0
2760	Super-resolution reconstruction of image based on generative adversarial network with attention module. , 2021, , .		0
2761	Single Image Super-Resolution with U-Net Generative Adversarial Networks. , 2021, , .		0
2762	Feature Redundancy Mining: Deep Light-Weight Image Super-Resolution Model. , 2021, , .		3
2763	Leveraging Multi scale Backbone with Multilevel supervision for Thermal Image Super Resolution. , 2021, , .		4
2764	Efficient Space-time Video Super Resolution using Low-Resolution Flow and Mask Upsampling. , 2021, , .		7

#	ARTICLE	IF	CITATIONS
2765	Expectation-Maximization Attention Cross Residual Network for Single Image Super-resolution. , 2021, , .		3
2766	NTIRE 2021 Learning the Super-Resolution Space Challenge. , 2021, , .		12
2767	Learned Image Compression with Super-Resolution Residual Modules and DISTS Optimization. , 2021, , .		0
2768	Spatial Super Resolution of Real-World Aerial Images for Image-Based Plant Phenotyping. Remote Sensing, 2021, 13, 2308.	1.8	4
2769	Efficient Multi-scalable Network for Single Image Super Resolution. Journal of Multimedia Information System, 2021, 8, 101-110.	0.4	2
2770	MEG Source Localization via Deep Learning. Sensors, 2021, 21, 4278.	2.1	16
2771	Block-based compressed sensing of MR images using multi-rate deep learning approach. Complex & Intelligent Systems, 2021, 7, 2437-2451.	4.0	3
2772	Noise Conditional Flow Model for Learning the Super-Resolution Space. , 2021, , .		7
2773	NTIRE 2021 Challenge on Burst Super-Resolution: Methods and Results. , 2021, , .		10
2774	Channel Split Convolutional Neural Network (ChaSNet) for Thermal Image Super-Resolution. , 2021, , .		16
2775	Improving Accuracy of Respiratory Rate Estimation by Restoring High Resolution Features with Transformers and Recursive Convolutional Models. , 2021, , .		5
2776	Channel Estimation for Underwater Acoustic OFDM Communications: An Image Super-Resolution Approach. , 2021, , .		6
2777	Gating Feature Dense Network for Single Anisotropic Mr Image Super-Resolution. , 2021, , .		1
2778	Interpolation of Irregularly Sampled Frequency Response Functions Using Convolutional Neural Networks. , 2021, , .		3
2779	Multimodal biomedical image fusion method via rolling guidance filter and deep convolutional neural networks. Optik, 2021, 237, 166726.	1.4	10
2780	Spatial Graph Convolutional Network for Image Super-Resolution. , 2021, , .		0
2781	A deep cascade of ensemble of dual domain networks with gradient-based T1 assistance and perceptual refinement for fast MRI reconstruction. Computerized Medical Imaging and Graphics, 2021, 91, 101942.	3.5	6
2782	Image super-resolution using multi-granularity perception and pyramid attention networks. Neurocomputing, 2021, 443, 247-261.	3.5	9

#	ARTICLE	IF	CITATIONS
2783	Iterative feature refinement with network-driven prior for image restoration. Pattern Analysis and Applications, 2021, 24, 1623-1634.	3.1	1
2784	Super Resolution of Single Image Based on Multi Level Residual Self Attention Mechanism. , 2021, , .		0
2785	Graph Convolutional Networks in Feature Space for Image Deblurring and Super-resolution. , 2021, , .		4
2786	Arbitrary Scale Super-Resolution for Medical Images. International Journal of Neural Systems, 2021, 31, 2150037.	3.2	24
2787	Single Image Super-Resolution Algorithm Based on Enhanced Generative Adversarial Network. , 2021, , .		0
2788	Machine Learning/Artificial Intelligence for Sensor Data Fusion – Opportunities and Challenges. IEEE Aerospace and Electronic Systems Magazine, 2021, 36, 80-93.	2.3	56
2789	Image super-resolution based on residually dense distilled attention network. Neurocomputing, 2021, 443, 47-57.	3.5	8
2790	SuperDTI: Ultrafast DTI and fiber tractography with deep learning. Magnetic Resonance in Medicine, 2021, 86, 3334-3347.	1.9	26
2791	A novel strategy to develop deep learning for image super-resolution using original ultra-high-resolution computed tomography images of lung as training dataset. Japanese Journal of Radiology, 2022, 40, 38-47.	1.0	9
2792	Structure-Resonant Discriminator for Image Super-Resolution. , 2021, , .		0
2793	Research on insulator defect detection algorithm of transmission line based on CenterNet. PLoS ONE, 2021, 16, e0255135.	1.1	13
2794	A comprehensive review of deep learning-based single image super-resolution. PeerJ Computer Science, 2021, 7, e621.	2.7	61
2795	TextureMask: A merged architecture for low-resolution instance segmentation. Intelligent Data Analysis, 2021, 25, 993-1012.	0.4	0
2796	Improvement of signal and noise performance using single image super-resolution based on deep learning in single photon-emission computed tomography imaging system. Nuclear Engineering and Technology, 2021, 53, 2341-2347.	1.1	7
2797	Detail Information Prior Net for Remote Sensing Image Pansharpening. Remote Sensing, 2021, 13, 2800.	1.8	5
2798	Deep Learning Based Video Super-Resolution and its Application in Video Conferences. , 2021, , .		2
2799	Deep Learning Approaches to Spatial Downscaling of GRACE Terrestrial Water Storage Products Using EALCO Model Over Canada. Canadian Journal of Remote Sensing, 2021, 47, 657-675.	1.1	9
2800	Deep Learning Mobile App Based Microscopic Leaf Imaging Disease Classification with Azure Cloud Computing Service. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
2801	On Accurate Computation of Trajectory Similarity via Single Image Super-Resolution. , 2021, , .		5
2802	Pedestrian detection with super-resolution reconstruction for low-quality image. Pattern Recognition, 2021, 115, 107846.	5.1	37
2803	Improved resolution in x-ray tomography by super-resolution. Applied Optics, 2021, 60, 5783.	0.9	8
2804	Heatmap-Aware Pyramid Face Hallucination. , 2021, , .		2
2805	Deep Residual Dual-Attention Network for Super-Resolution Reconstruction of Remote Sensing Images. Remote Sensing, 2021, 13, 2784.	1.8	8
2806	Towards smart optical focusing: deep learning-empowered dynamic wavefront shaping through nonstationary scattering media. Photonics Research, 2021, 9, B262.	3.4	30
2807	Disentangled generative adversarial network for low-dose CT. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.0	4
2808	Small object recognition with trainable lens. APL Photonics, 2021, 6, 071301.	3.0	2
2809	TheLNet270v1 â€œ A Novel Deep-Network Architecture for the Automatic Classification of Thermal Images for Greenhouse Plants. Frontiers in Plant Science, 2021, 12, 630425.	1.7	5
2810	Developing Long Time Series 1-km Land Cover Maps From 5-km AVHRR Data Using a Super-Resolution Method. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5479-5493.	2.7	1
2811	Region Attention Network For Single Image Super-resolution. , 2021, , .		1
2812	Depth Super-Resolution by Texture-Depth Transformer. , 2021, , .		5
2813	Remote sensing image super-resolution using cascade generative adversarial nets. Neurocomputing, 2021, 443, 117-130.	3.5	12
2814	Shape-Supervised Super-Resolution Convolutional Neural Network for Melt Droplet Images. Microgravity Science and Technology, 2021, 33, 1.	0.7	0
2815	Remote Sensing Image Super-Resolution Based on Dense Channel Attention Network. Remote Sensing, 2021, 13, 2966.	1.8	6
2816	Lightweight Image Super-Resolution via Weighted Multi-Scale Residual Network. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1271-1280.	8.5	31
2817	Centered Multi-Task Generative Adversarial Network for Small Object Detection. Sensors, 2021, 21, 5194.	2.1	8
2818	A Dilated Convolution-based Denoising Network for Magnetic Resonance Images. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
2819	Compact and progressive network for enhanced single image super-resolutionâ€”ComPrESRNet. Visual Computer, 0, , 1.	2.5	5
2820	Generative Adversarial Network-Based Edge-Preserving Superresolution Reconstruction of Infrared Images. International Journal of Digital Multimedia Broadcasting, 2021, 2021, 1-12.	0.4	1
2821	FSFN: feature separation and fusion network for single image super-resolution. Multimedia Tools and Applications, 2021, 80, 31599.	2.6	2
2822	Deep Geometric Distillation Network for Compressive Sensing MRI. , 2021, , .		6
2823	A weighted least squares optimisation strategy for medical image super resolution via multiscale convolutional neural networks for healthcare applications. Complex & Intelligent Systems, 2022, 8, 3089-3104.	4.0	11
2824	Organ-Branched CNN for Robust Face Super-Resolution. , 2021, , .		4
2825	Images super-resolution using improved generative adversarial networks. , 2021, , .		0
2826	Channel Hourglass Residual Network For Single Image Super-Resolution. , 2021, , .		0
2827	Deep Gradient Prior Regularized Robust Video Super-Resolution. Electronics (Switzerland), 2021, 10, 1641.	1.8	6
2828	Adaptive Texture Distillation Network for Image Hybrid Super-Resolution. , 2021, , .		0
2829	A deep learning approach for trustworthy high-fidelity computational holographic orbital angular momentum communication. Applied Physics Letters, 2021, 119, .	1.5	17
2830	Reducing molecular simulation time for AFM images based on super-resolution methods. Beilstein Journal of Nanotechnology, 2021, 12, 775-785.	1.5	2
2831	Single-image super-resolution based on multi-branch residual pyramid network. Journal of Real-Time Image Processing, 2021, 18, 2569-2581.	2.2	0
2832	CSRDN: An Integrated Scheme for Single Satellite Image Colorization and Super-Resolution Using Deep Neural Networks. , 2021, , .		0
2833	Single image restoration through â€œ2-relaxed truncated â€œ0 analysis-based sparse optimization in tight frames. Neurocomputing, 2021, 443, 272-291.	3.5	2
2834	RSPCN: Super-Resolution of Digital Elevation Model Based on Recursive Sub-Pixel Convolutional Neural Networks. ISPRS International Journal of Geo-Information, 2021, 10, 501.	1.4	11
2835	The future of bone regeneration: integrating AI into tissue engineering. Biomedical Physics and Engineering Express, 2021, 7, 052002.	0.6	26
2836	Hybrid BM3D and PDE filtering for non-parametric single image denoising. Signal Processing, 2021, 184, 108049.	2.1	8

#	ARTICLE	IF	CITATIONS
2837	High through-plane resolution CT imaging with self-supervised deep learning. <i>Physics in Medicine and Biology</i> , 2021, 66, 145013.	1.6	8
2838	Ultra-Fast Label-Free Serum Metabolic Diagnosis of Coronary Heart Disease via a Deep Stabilizer. <i>Advanced Science</i> , 2021, 8, e2101333.	5.6	30
2839	Self-supervised CT super-resolution with hybrid model. <i>Computers in Biology and Medicine</i> , 2021, 138, 104775.	3.9	11
2840	Modified VDSR-based single image super-resolution using naturalness image quality evaluator. <i>Signal, Image and Video Processing</i> , 2022, 16, 661-668.	1.7	5
2841	Estimates of Maize Plant Density from UAV RGB Images Using Faster-RCNN Detection Model: Impact of the Spatial Resolution. <i>Plant Phenomics</i> , 2021, 2021, 9824843.	2.5	32
2842	Cardiac Magnetic Resonance Images Superresolution via Multichannel Residual Attention Networks. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-8.	0.7	1
2843	Art Image Processing and Color Objective Evaluation Based on Multicolor Space Convolutional Neural Network. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-10.	1.1	4
2844	M-SRPCNN: A Fully Convolutional Neural Network Approach for Handling Super Resolution Reconstruction on Monthly Energy Consumption Environments. <i>Energies</i> , 2021, 14, 4765.	1.6	6
2845	Joint super-resolution and synthesis of 1Åmm isotropic MP-RAGE volumes from clinical MRI exams with scans of different orientation, resolution and contrast. <i>NeuroImage</i> , 2021, 237, 118206.	2.1	52
2846	Deep neural network for beam hardening artifacts removal in image reconstruction. <i>Applied Intelligence</i> , 2022, 52, 6037-6056.	3.3	5
2847	Multi-Path Deep CNN with Residual Inception Network for Single Image Super-Resolution. <i>Electronics (Switzerland)</i> , 2021, 10, 1979.	1.8	11
2848	License Plate Image Reconstruction Based on Generative Adversarial Networks. <i>Remote Sensing</i> , 2021, 13, 3018.	1.8	8
2849	Attentive frequency learning network for super-resolution. <i>Applied Intelligence</i> , 2022, 52, 5185-5196.	3.3	3
2850	SR-Inpaint: A General Deep Learning Framework for High Resolution Image Inpainting. <i>Algorithms</i> , 2021, 14, 236.	1.2	4
2851	Multi-hypothesis inspired super-resolution for compression distorted screen content image. , 2021, , .		1
2853	Deep CNN with Residual learning and Dilated Convolution for Image Denoising. , 2021, , .		0
2854	Nested Dense Attention Network for Single Image Super-Resolution. , 2021, , .		1
2855	Quantitative pure-phase object reconstruction under single-shot Fourier measurement via deep learning. <i>Optics and Lasers in Engineering</i> , 2021, 143, 106619.	2.0	9

#	ARTICLE	IF	CITATIONS
2856	Deep learning spectral enhancement considering features of seismic field data. Geophysics, 2021, 86, V389-V408.	1.4	7
2857	Fast filters for preprocessing and mass segmentation in mammography images. , 2021, , .		3
2858	Unpaired Remote Sensing Image Super-Resolution with Multi-Stage Aggregation Networks. Remote Sensing, 2021, 13, 3167.	1.8	1
2859	Improved multi-scale dynamic feature encoding network for image demoirÃ©ing. Pattern Recognition, 2021, 116, 107970.	5.1	13
2860	Tracking small-scale tropical forest disturbances: Fusing the Landsat and Sentinel-2 data record. Remote Sensing of Environment, 2021, 261, 112470.	4.6	32
2861	Deep learning for hologram generation. Optics Express, 2021, 29, 27373.	1.7	20
2862	A Study on Multiple Factors Affecting the Accuracy of Multiclass Skin Disease Classification. Applied Sciences (Switzerland), 2021, 11, 7929.	1.3	1
2863	Residual Triplet Attention Network for Single-Image Super-Resolution. Electronics (Switzerland), 2021, 10, 2072.	1.8	2
2864	Detail Injection-Based Deep Convolutional Neural Networks for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6995-7010.	2.7	131
2865	A lightweight network with bidirectional constraints for single image super-resolution. Optik, 2021, 239, 166818.	1.4	5
2866	Residual deep attention mechanism and adaptive reconstruction network for single image super-resolution. Applied Intelligence, 2022, 52, 5197-5211.	3.3	6
2867	The digital resurrection of Margaret Thatcher: Creative, technological and legal dilemmas in the use of deepfakes in screen drama. Convergence, 2021, 27, 954-973.	1.6	9
2868	Deep Stereoscopic Image Super-Resolution via Interaction Module. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3051-3061.	5.6	22
2869	Neural style transfer combined with EfficientDet for thermal surveillance. Visual Computer, 2022, 38, 4111-4127.	2.5	7
2870	A data-driven machining errors recovery method for complex surfaces with limited measurement points. Measurement: Journal of the International Measurement Confederation, 2021, 181, 109661.	2.5	10
2871	Improving nighttime periocular recognition performance by image superresolution. , 2021, , .		0
2872	FPPN: fast pixel purification network for single-image super-resolution. Multimedia Systems, 2022, 28, 281-293.	3.0	0
2873	Single-Image super-resolution - When model adaptation matters. Pattern Recognition, 2021, 116, 107931.	5.1	15

#	ARTICLE	IF	CITATIONS
2874	Image super resolution model enabled by wavelet lifting with optimized deep convolutional neural network. Expert Systems, 0, , e12793.	2.9	1
2875	A method for adequate selection of training data sets to reconstruct seismic data using a convolutional U-Net. Geophysics, 2021, 86, V375-V388.	1.4	13
2876	Multi-scale Xception based depthwise separable convolution for single image super-resolution. PLoS ONE, 2021, 16, e0249278.	1.1	15
2877	A No-Reference CNN-Based Super-Resolution Method for KOMPSAT-3 Using Adaptive Image Quality Modification. Remote Sensing, 2021, 13, 3301.	1.8	2
2878	Multi-stage deep neural network accelerated topology optimization. Structural and Multidisciplinary Optimization, 2021, 64, 3473-3487.	1.7	12
2879	Refinement of Projection Map Based on Artificial Neural Networks to Represent Noise-Reduced Foam Effects. Journal of the Korea Computer Graphics Society, 2021, 27, 11-24.	0.1	0
2880	DcNet: Dilated Convolutional Neural Networks for Side-Scan Sonar Image Semantic Segmentation. Journal of Ocean University of China, 2021, 20, 1089-1096.	0.6	8
2881	Does face restoration improve face verification?. Multimedia Tools and Applications, 2021, 80, 32863-32883.	2.6	0
2882	Deep insight: Convolutional neural network and its applications for COVID-19 prognosis. Biomedical Signal Processing and Control, 2021, 69, 102814.	3.5	21
2883	LASSR: Effective super-resolution method for plant disease diagnosis. Computers and Electronics in Agriculture, 2021, 187, 106271.	3.7	15
2884	Low-Light-Level Image Super-Resolution Reconstruction Based on a Multi-Scale Features Extraction Network. Photonics, 2021, 8, 321.	0.9	5
2885	Object Detection and Movement Tracking Using Tubelets and Faster RCNN Algorithm with Anchor Generation. Wireless Communications and Mobile Computing, 2021, 2021, 1-16.	0.8	3
2886	Comparative study of deep neural networks with unsupervised <scp>Noise2Noise</scp> strategy for noise reduction of optical coherence tomography images. Journal of Biophotonics, 2021, 14, e202100151.	1.1	17
2887	IIT-GAT: Instance-level image transformation via unsupervised generative attention networks with disentangled representations. Knowledge-Based Systems, 2021, 225, 107122.	4.0	6
2888	Sparsity-Driven ISAR Imaging via Hierarchical Channel-Mixed Framework. IEEE Sensors Journal, 2021, 21, 19222-19235.	2.4	3
2889	DAEANet: Dual auto-encoder attention network for depth map super-resolution. Neurocomputing, 2021, 454, 350-360.	3.5	8
2890	Single-breath-hold T2WI liver MRI with deep learning-based reconstruction: A clinical feasibility study in comparison to conventional multi-breath-hold T2WI liver MRI. Magnetic Resonance Imaging, 2021, 81, 75-81.	1.0	27
2891	Intelligent rotating machinery fault diagnosis based on super-resolution enhancement using data augmentation under large speed fluctuation. Measurement Science and Technology, 2021, 32, 125105.	1.4	2



#	ARTICLE	IF	CITATIONS
2892	Fs-Net: Filter Selection Network For Hyperspectral Reconstruction. , 2021, , .		4
2893	Gan-Based Super-Resolution and Segmentation of Retinal Layers in Optical Coherence Tomography Scans. , 2021, , .		3
2894	High-Frequency Preserving Image Downscaler. , 2021, , .		0
2895	Pan-Sharpening Via High-Pass Modification Convolutional Neural Network. , 2021, , .		5
2896	Searching Architecture and Precision for U-net based Image Restoration Tasks. , 2021, , .		0
2897	Sparse data-based image super-resolution with ANFIS interpolation. Neural Computing and Applications, 0, , 1.	3.2	0
2898	Angularâ€flexible network for light field image superâ€resolution. Electronics Letters, 2021, 57, 921-924.	0.5	2
2899	Single Image Super-Resolution Network Based on Multiple- Scale Self-Similarity Module. Journal of Physics: Conference Series, 2021, 2024, 012018.	0.3	0
2900	Channel rearrangement multi-branch network for image super-resolution. , 2022, 120, 103254.		10
2901	Deep Learningâ€Based Superâ€Resolution Climate Simulatorâ€Emulator Framework for Urban Heat Studies. Geophysical Research Letters, 2021, 48, e2021GL094737.	1.5	13
2902	Learning digital camera pipeline for extreme low-light imaging. Neurocomputing, 2021, 452, 37-47.	3.5	5
2903	Cascade Attention Blend Residual Network For Single Image Super-Resolution. , 2021, , .		4
2904	360Â° Single Image Super Resolution via Distortion-Aware Network and Distorted Perspective Images. , 2021, , .		12
2905	Can the Structure Similarity of Training Patches Affect the Sea Surface Temperature Deep Learning Super-Resolution?. Remote Sensing, 2021, 13, 3568.	1.8	2
2906	Perspectives and limitations of visible-thermal image pair synthesis via generative adversarial networks. , 2021, , .		2
2907	A Visual Navigation System for UAV under Diverse Illumination Conditions. Applied Artificial Intelligence, 2021, 35, 1529-1549.	2.0	13
2908	Super-Resolution Model Quantized in Multi-Precision. Electronics (Switzerland), 2021, 10, 2176.	1.8	4
2909	Residual dense network for medical magnetic resonance images super-resolution. Computer Methods and Programs in Biomedicine, 2021, 209, 106330.	2.6	16

#	ARTICLE	IF	CITATIONS
2910	SquiggleMilli. , 2021, 5, 1-26.		12
2911	URNet: A U-Shaped Residual Network for Lightweight Image Super-Resolution. Remote Sensing, 2021, 13, 3848.	1.8	11
2912	A Survey: Approaches to Facial Detection and Recognition with Machine Learning Techniques. Advances in Intelligent Systems and Computing, 2022, , 103-125.	0.5	16
2913	Gradual back-projection residual attention network for magnetic resonance image super-resolution. Computer Methods and Programs in Biomedicine, 2021, 208, 106252.	2.6	21
2914	Passive imaging of single photon flux: strategies for noise treatment, motion blur reduction and super-resolution up-scaling. , 2021, , .		1
2915	Shallow Multi-Scale Network For Stylized Super-Resolution. , 2021, , .		1
2916	Multiple Optimizations-Based ESRFBN Super-Resolution Network Algorithm for MR Images. Applied Sciences (Switzerland), 2021, 11, 8150.	1.3	1
2917	Multi-attention augmented network for single image super-resolution. Pattern Recognition, 2022, 122, 108349.	5.1	34
2918	Deep Architectures for Image Compression: A Critical Review. Signal Processing, 2022, 191, 108346.	2.1	49
2919	Edge-preserving MRI image synthesis via adversarial network with iterative multi-scale fusion. Neurocomputing, 2021, 452, 63-77.	3.5	24
2920	Multisensor Remote Sensing Imagery Super-Resolution with Conditional GAN. Journal of Remote Sensing, 2021, 2021, .	3.2	12
2921	2D-to-3D reconstruction of carbonate digital rocks using Progressive Growing GAN. , 2021, , .		1
2922	Single depth map super-resolution via joint non-local self-similarity modeling and local multi-directional gradient-guided regularization. Signal Processing: Image Communication, 2021, 97, 116313.	1.8	1
2923	Depth Map Super-Resolution By Multi-Direction Dictionary And Joint Regularization. , 2021, , .		2
2924	Noniterative sub-pixel shifting super-resolution lensless digital holography. Optics Express, 2021, 29, 29996.	1.7	7
2925	Stratified attention dense network for image super-resolution. Signal, Image and Video Processing, 2022, 16, 715-722.	1.7	2
2926	Mask Attention-SRGAN for Mobile Sensing Networks. Sensors, 2021, 21, 5973.	2.1	2
2927	TSRGAN: Real-world text image super-resolution based on adversarial learning and triplet attention. Neurocomputing, 2021, 455, 88-96.	3.5	16

#	ARTICLE	IF	CITATIONS
2928	ViSTRA2: Video coding using spatial resolution and effective bit depth adaptation. Signal Processing: Image Communication, 2021, 97, 116355.	1.8	7
2929	Binarizing Super-Resolution Networks by Pixel-Correlation Knowledge Distillation. , 2021, , .		4
2930	Sliding Windows Method Based on Terrain Self-Similarity for Higher DEM Resolution in Flood Simulating Modeling. Remote Sensing, 2021, 13, 3604.	1.8	4
2931	Accuracy of Using Generative Adversarial Networks for Glaucoma Detection: Systematic Review and Bibliometric Analysis. Journal of Medical Internet Research, 2021, 23, e27414.	2.1	13
2932	Imaging depth adaptive resolution enhancement for optical coherence tomography via deep neural network with external attention. Physics in Medicine and Biology, 2021, 66, 195006.	1.6	1
2933	\$\$\$ {TG}^2\$\$\$: text-guided transformer GAN for restoring document readability and perceived quality. International Journal on Document Analysis and Recognition, 2022, 25, 15-28.	2.7	3
2934	Time-varying data processing with nonvolatile memristor-based temporal kernel. Nature Communications, 2021, 12, 5727.	5.8	42
2935	Semi-Supervised Learning for Mars Imagery Classification. , 2021, , .		8
2936	A Fast and Efficient Super-Resolution Network Using Hierarchical Dense Residual Learning. , 2021, , .		2
2937	A Graph Neural Network For Multiple-Image Super-Resolution. , 2021, , .		8
2938	A novel framework for cost-effectively reconstructing the global flow field by super-resolution. Physics of Fluids, 2021, 33, .	1.6	13
2939	MRI super-resolution via realistic downsampling with adversarial learning. Physics in Medicine and Biology, 2021, 66, 205004.	1.6	10
2940	FA-GAN: Fused attentive generative adversarial networks for MRI image super-resolution. Computerized Medical Imaging and Graphics, 2021, 92, 101969.	3.5	49
2941	Progressive back-projection network for COVID-CT super-resolution. Computer Methods and Programs in Biomedicine, 2021, 208, 106193.	2.6	8
2942	Image Restoration Based on End-to-End Unrolled Network. Photonics, 2021, 8, 376.	0.9	4
2943	Multi-scale attention network for image super-resolution. Journal of Visual Communication and Image Representation, 2021, 80, 103300.	1.7	9
2944	Artificial Intelligence-Based Image Enhancement in PET Imaging. PET Clinics, 2021, 16, 553-576.	1.5	49
2945	GPRInvNet: Deep Learning-Based Ground-Penetrating Radar Data Inversion for Tunnel Linings. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8305-8325.	2.7	60

#	ARTICLE	IF	CITATIONS
2946	Multi-Scale Image Super-Resolution via Hierarchical Filter Groups. Applied Intelligence, 0, , 1.	3.3	0
2947	A multi-stage deep learning based algorithm for multiscale model reduction. Journal of Computational and Applied Mathematics, 2021, 394, 113506.	1.1	10
2948	A Unified Network for Arbitrary Scale Super-Resolution of Video Satellite Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8812-8825.	2.7	11
2949	Super-resolution of subsurface temperature field from remote sensing observations based on machine learning. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102440.	1.4	25
2950	Research on image super-resolution algorithm based on mixed deep convolutional networks. Computers and Electrical Engineering, 2021, 95, 107422.	3.0	4
2951	Three-dimensional reconstruction of super-resolved white-light interferograms based on deep learning. Optics and Lasers in Engineering, 2021, 145, 106663.	2.0	11
2952	Channel-wise spatial attention-based pan-sharpening of very high-resolution satellite images. Knowledge-Based Systems, 2021, 229, 107324.	4.0	14
2953	DMDIT: Diverse multi-domain image-to-image translation. Knowledge-Based Systems, 2021, 229, 107311.	4.0	5
2954	Brain MRI super-resolution using coupled-projection residual network. Neurocomputing, 2021, 456, 190-199.	3.5	25
2955	Graph convolutional networks for enhanced resolution 3D Electrical Capacitance Tomography image reconstruction. Applied Soft Computing Journal, 2021, 110, 107608.	4.1	11
2956	Pose guided anchoring for detecting proper use of personal protective equipment. Automation in Construction, 2021, 130, 103828.	4.8	24
2957	Lightweight adaptive weighted network for single image super-resolution. Computer Vision and Image Understanding, 2021, 211, 103254.	3.0	10
2958	Exploring the Relationship Between 2D/3D Convolution for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8693-8703.	2.7	82
2959	Learning Physical Parameters and Detail Enhancement for Gaseous Scene Design Based on Data Guidance. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 3867-3880.	2.9	2
2960	Image style transfer for autonomous multi-robot systems. Information Sciences, 2021, 576, 274-287.	4.0	4
2961	Optical Aberrations Correction in Postprocessing Using Imaging Simulation. ACM Transactions on Graphics, 2021, 40, 1-15.	4.9	12
2962	Single image super-resolution using feature adaptive learning and global structure sparsity. Signal Processing, 2021, 188, 108184.	2.1	10
2963	Super-resolution reconstruction of infrared images based on a convolutional neural network with skip connections. Optics and Lasers in Engineering, 2021, 146, 106717.	2.0	35

#	ARTICLE	IF	CITATIONS
2964	SRNHARB: A deep light-weight image super resolution network using hybrid activation residual blocks. Signal Processing: Image Communication, 2021, 99, 116509.	1.8	6
2965	Divide and conquer: Ill-light image enhancement via hybrid deep network. Expert Systems With Applications, 2021, 182, 115034.	4.4	16
2966	Blind image super-resolution based on prior correction network. Neurocomputing, 2021, 463, 525-534.	3.5	1
2967	Enhanced image prior for unsupervised remoting sensing super-resolution. Neural Networks, 2021, 143, 400-412.	3.3	15
2968	Balanced distortion and perception in single-image super-resolution based on optimal transport in wavelet domain. Neurocomputing, 2021, 464, 408-420.	3.5	6
2969	An efficient image super resolution model with dense skip connections between complex filter structures in Generative Adversarial Networks. Expert Systems With Applications, 2021, 186, 115780.	4.4	10
2970	Spatial and temporal differentiation and influencing factors of environmental governance performance in the Yangtze River Delta, China. Science of the Total Environment, 2021, 801, 149699.	3.9	44
2971	ESKN: Enhanced selective kernel network for single image super-resolution. Signal Processing, 2021, 189, 108274.	2.1	8
2972	Spatio-temporal multi-task network cascade for accurate assessment of cardiac CT perfusion. Medical Image Analysis, 2021, 74, 102207.	7.0	3
2973	Estimating workability of concrete with different strength grades based on deep learning. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110073.	2.5	8
2974	Super-resolution reconstruction based on two-stage residual neural network. Machine Learning With Applications, 2021, 6, 100162.	3.0	1
2975	Deep learning in computer vision: A critical review of emerging techniques and application scenarios. Machine Learning With Applications, 2021, 6, 100134.	3.0	173
2976	Reducing magnetic resonance image spacing by learning without ground-truth. Pattern Recognition, 2021, 120, 108103.	5.1	4
2977	Unbox the black-box for the medical explainable AI via multi-modal and multi-centre data fusion: A mini-review, two showcases and beyond. Information Fusion, 2022, 77, 29-52.	11.7	280
2978	Semi-supervised student-teacher learning for single image super-resolution. Pattern Recognition, 2022, 121, 108206.	5.1	13
2979	A deep framework for enhancement of diagnostic information in CSMRI reconstruction. Biomedical Signal Processing and Control, 2022, 71, 103117.	3.5	5
2980	Artifacts Reduction Using Multi-Scale Feature Attention Network in Compressed Medical Images. Computers, Materials and Continua, 2022, 70, 3267-3279.	1.5	3
2981	Attention-Based Multistage Fusion Network for Remote Sensing Image Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	5

#	ARTICLE	IF	CITATIONS
2982	Image Super-Resolution. , 2021, , 1-5.		0
2983	Fish Image Instance Segmentation: An Enhanced Hybrid Task Cascade Approach. , 2021, , .		0
2984	Restoring Spatially-Heterogeneous Distortions Using Mixture of Experts Network. Lecture Notes in Computer Science, 2021, , 185-201.	1.0	1
2985	Video Vectorization via Bipartite Diffusion Curves Propagation and Optimization. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 3265-3276.	2.9	2
2986	Cross Parallax Attention Network for Stereo Image Super-Resolution. IEEE Transactions on Multimedia, 2022, 24, 202-216.	5.2	15
2987	Super-resolution reconstruction of seismic section image via multi-scale convolution neural network. E3S Web of Conferences, 2021, 303, 01058.	0.2	3
2988	STSRNet: Self-Texture Transfer Super-Resolution and Refocusing Network. IEEE Transactions on Medical Imaging, 2022, 41, 383-393.	5.4	4
2989	SHS-GAN: Synthetic Enhancement of a Natural Hyperspectral Database. IEEE Transactions on Computational Imaging, 2021, 7, 505-517.	2.6	2
2990	Mixed Attention Densely Residual Network for Single Image Super-Resolution. Computer Systems Science and Engineering, 2021, 39, 133-146.	1.9	5
2991	Up- and Down-Projection Unit in a Dual Branch Scenario for Single Image Super Resolution. Smart Innovation, Systems and Technologies, 2021, , 782-789.	0.5	0
2992	Image Super-Resolution Based on the Down-Sampling Iterative Module and Deep CNN. Circuits, Systems, and Signal Processing, 2021, 40, 3437-3455.	1.2	2
2993	Optically Enhanced Super-Resolution of Sea Surface Temperature Using Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	10
2994	RR-DnCNN v2.0: Enhanced Restoration-Reconstruction Deep Neural Network for Down-Sampling-Based Video Coding. IEEE Transactions on Image Processing, 2021, 30, 1702-1715.	6.0	25
2995	Brain MR image super-resolution via a deep convolutional neural network with multi-unit upsampling learning. Signal, Image and Video Processing, 2021, 15, 931-939.	1.7	2
2996	Image generation using generative adversarial networks. , 2021, , 235-262.		1
2997	Collaborative Network for Super-Resolution and Semantic Segmentation of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	22
2998	Perception consistency ultrasound image super-resolution via self-supervised CycleGAN. Neural Computing and Applications, 2023, 35, 12331-12341.	3.2	44
2999	Single Image Super-Resolution Using Asynchronous Multi-Scale Network. IEEE Signal Processing Letters, 2021, 28, 1823-1827.	2.1	11

#	ARTICLE	IF	CITATIONS
3000	Generalized MSFA Engineering With Structural and Adaptive Nonlocal Demosaicing. IEEE Transactions on Image Processing, 2021, 30, 7867-7877.	6.0	9
3002	Deep Convolutional Neural Network Framework for Subpixel Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 9518-9539.	2.7	36
3003	Breast Cancer Histopathology Image Super-Resolution Using Wide-Attention GAN With Improved Wasserstein Gradient Penalty and Perceptual Loss. IEEE Access, 2021, 9, 32795-32809.	2.6	26
3004	Multibranch Feature Extraction and Feature Multiplexing Network for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5
3005	ECASR: Efficient Channel Attention Based Super-Resolution. Communications in Computer and Information Science, 2021, , 374-386.	0.4	1
3007	Layer-Output Guided Complementary Attention Learning for Image Defocus Blur Detection. IEEE Transactions on Image Processing, 2021, 30, 3748-3763.	6.0	18
3009	Augmented Cyclic Consistency Regularization for Unpaired Image-to-Image Translation. , 2021, , .		3
3010	Thermal Image Enhancement using Generative Adversarial Network for Pedestrian Detection. , 2021, , .		5
3012	Recovering Trajectories of Unmarked Joints in 3D Human Actions Using Latent Space Optimization. , 2021, , .		4
3013	Conditional Prior Probabilistic Generative Model With Similarity Measurement for ISAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
3014	<i>DeepRepair:</i> Style-Guided Repairing for Deep Neural Networks in the Real-World Operational Environment. IEEE Transactions on Reliability, 2022, 71, 1401-1416.	3.5	16
3015	Enhancement of 3D Seismic Images using Image Fusion Techniques. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.5	0
3016	BP-DIP: A Backprojection based Deep Image Prior. , 2021, , .		5
3017	Parallel-Connected Residual Channel Attention Network for Remote Sensing Image Super-Resolution. Lecture Notes in Computer Science, 2021, , 18-30.	1.0	2
3018	Single Image Super-Resolution with Gradient Guidance. , 2021, , .		0
3019	Spectrum Data Reconstruction via Deep Convolutional Neural Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 636-644.	0.2	0
3020	Low-Rank Constrained Super-Resolution for Mixed-Resolution Multiview Video. IEEE Transactions on Image Processing, 2021, 30, 1072-1085.	6.0	8
3021	Multi-Category Image Super-Resolution with Convolutional Neural Network and Multi-Task Learning. IEICE Transactions on Information and Systems, 2021, E104.D, 183-193.	0.4	4



#	ARTICLE	IF	CITATIONS
3022	X-ray image denoising for Cargo Dual Energy Inspection System. , 2021, , .		4
3023	A Layer-Wise Extreme Network Compression for Super Resolution. IEEE Access, 2021, 9, 93998-94009.	2.6	1
3024	MultiSDGAN: Translation of OCT Images to Superresolved Segmentation Labels Using Multi-Discriminators in Multi-Stages. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1614-1627.	3.9	2
3025	Noise Robust Face Hallucination Based on Smooth Correntropy Representation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5953-5965.	7.2	8
3026	Light-Field Imaging Reconstruction Using Deep Learning Enabling Intelligent Autonomous Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1587-1595.	4.7	5
3027	Mixed High-Order Non-Local Attention Network for Single Image Super-Resolution. IEEE Access, 2021, 9, 49514-49521.	2.6	4
3028	Laplacian Pyramid Dense Network for Hyperspectral Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	32
3029	RE-MIMO: Recurrent and Permutation Equivariant Neural MIMO Detection. IEEE Transactions on Signal Processing, 2021, 69, 459-473.	3.2	25
3030	VolumeNet: A Lightweight Parallel Network for Super-Resolution of MR and CT Volumetric Data. IEEE Transactions on Image Processing, 2021, 30, 4840-4854.	6.0	33
3031	Towards Robust Speech Super-Resolution. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2058-2066.	4.0	22
3032	Robust face recognition based on multi-task convolutional neural network. Mathematical Biosciences and Engineering, 2021, 18, 6638-6651.	1.0	8
3033	Spectral Super-Resolution of Multispectral Images Using Spatialâ€“Spectral Residual Attention Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	28
3034	An Effective and Comprehensive Image Super Resolution Algorithm Combined With a Novel Convolutional Neural Network and Wavelet Transform. IEEE Access, 2021, 9, 98790-98799.	2.6	8
3035	Image-Scale-Symmetric Cooperative Network for Defocus Blur Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2719-2731.	5.6	14
3037	Convolutional LSTM-Based Hierarchical Feature Fusion for Multispectral Pan-Sharpener. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	7
3038	Single Image Super-Resolution Method Using CNN-Based Lightweight Neural Networks. Applied Sciences (Switzerland), 2021, 11, 1092.	1.3	20
3039	Hierarchical Generative Adversarial Networks for Single Image Super-Resolution. , 2021, , .		8
3041	Beyond Brightening Low-light Images. International Journal of Computer Vision, 2021, 129, 1013-1037.	10.9	252



#	ARTICLE	IF	CITATIONS
3042	Learning Versatile Convolution Filters for Efficient Visual Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	3
3043	Densely connected network with improved pyramidal bottleneck residual units for super-resolution. Journal of Visual Communication and Image Representation, 2021, 74, 102963.	1.7	1
3045	Deep Learning-Based Thermal Image Reconstruction and Object Detection. IEEE Access, 2021, 9, 5951-5971.	2.6	26
3046	Image Super-Resolution via Generative Adversarial Networks Using Metric Projections onto Consistent Sets for Low-Resolution Inputs. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2022, E105.A, 704-718.	0.2	0
3047	STNet: An End-to-End Generative Framework for Synthesizing Spatiotemporal Super-Resolution Volumes. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 270-280.	2.9	22
3048	Artificial Intelligence for MR Image Reconstruction: An Overview for Clinicians. Journal of Magnetic Resonance Imaging, 2021, 53, 1015-1028.	1.9	150
3049	Recent Advances in Deep Learning for Single Image Super-Resolution. Lecture Notes in Computer Science, 2018, , 85-95.	1.0	2
3050	Can Deep Learning Relax Endomicroscopy Hardware Miniaturization Requirements?. Lecture Notes in Computer Science, 2018, , 57-64.	1.0	5
3051	Attention-GAN for Object Transfiguration in Wild Images. Lecture Notes in Computer Science, 2018, , 167-184.	1.0	99
3052	Deep Video Generation, Prediction and Completion of Human Action Sequences. Lecture Notes in Computer Science, 2018, , 374-390.	1.0	63
3053	To Learn Image Super-Resolution, Use a GAN to Learn How to Do Image Degradation First. Lecture Notes in Computer Science, 2018, , 187-202.	1.0	201
3054	Image Super-Resolution Using Very Deep Residual Channel Attention Networks. Lecture Notes in Computer Science, 2018, , 294-310.	1.0	1,935
3055	Discriminative Region Proposal Adversarial Networks for High-Quality Image-to-Image Translation. Lecture Notes in Computer Science, 2018, , 796-812.	1.0	33
3056	LAPRAN: A Scalable Laplacian Pyramid Reconstructive Adversarial Network for Flexible Compressive Sensing Reconstruction. Lecture Notes in Computer Science, 2018, , 491-507.	1.0	31
3057	Deep Autoencoder for Combined Human Pose Estimation and Body Model Upscaling. Lecture Notes in Computer Science, 2018, , 800-816.	1.0	34
3058	Semi-supervised Adversarial Learning to Generate Photorealistic Face Images of New Identities from 3D Morphable Model. Lecture Notes in Computer Science, 2018, , 230-248.	1.0	38
3059	Volumetric Performance Capture from Minimal Camera Viewpoints. Lecture Notes in Computer Science, 2018, , 591-607.	1.0	28
3060	Deep Kalman Filtering Network for Video Compression Artifact Reduction. Lecture Notes in Computer Science, 2018, , 591-608.	1.0	55

#	ARTICLE	IF	CITATIONS
3061	Deep Burst Denoising. Lecture Notes in Computer Science, 2018, , 560-577.	1.0	59
3062	SRFeat: Single Image Super-Resolution with Feature Discrimination. Lecture Notes in Computer Science, 2018, , 455-471.	1.0	104
3063	Nuclear Norm Regularized Structural Orthogonal Procrustes Regression for Face Hallucination with Pose. Studies in Computational Intelligence, 2020, , 159-169.	0.7	2
3064	Utilizing Deep Object Detector for Video Surveillance Indexing and Retrieval. Lecture Notes in Computer Science, 2019, , 506-518.	1.0	2
3065	Sex-classification from Cellphones Periocular Iris Images. Advances in Computer Vision and Pattern Recognition, 2019, , 227-242.	0.9	7
3066	Super-resolution for Selfie Biometrics: Introduction and Application to Face and Iris. Advances in Computer Vision and Pattern Recognition, 2019, , 105-128.	0.9	7
3067	Proximal Splitting Networks for Image Restoration. Lecture Notes in Computer Science, 2019, , 3-17.	1.0	6
3068	Hypernetwork Functional Image Representation. Lecture Notes in Computer Science, 2019, , 496-510.	1.0	27
3069	Iris Image Super Resolution Based on GANs with Adversarial Triplets. Lecture Notes in Computer Science, 2019, , 346-353.	1.0	5
3070	ADSRNet: Attention-Based Densely Connected Network for Image Super-Resolution. Lecture Notes in Computer Science, 2019, , 272-282.	1.0	31
3071	An Efficient Federated Learning Scheme with Differential Privacy in Mobile Edge Computing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 538-550.	0.2	14
3072	Self-supervised Recurrent Neural Network for 4D Abdominal and In-utero MR Imaging. Lecture Notes in Computer Science, 2019, , 16-24.	1.0	5
3073	Deep Blind Image Inpainting. Lecture Notes in Computer Science, 2019, , 128-141.	1.0	21
3074	Recovering Super-Resolution Generative Adversarial Network for Underwater Images. Communications in Computer and Information Science, 2019, , 75-83.	0.4	2
3075	VHS to HDTV Video Translation Using Multi-task Adversarial Learning. Lecture Notes in Computer Science, 2020, , 77-86.	1.0	1
3076	Down-Sampling Based Video Coding with Degradation-Aware Restoration-Reconstruction Deep Neural Network. Lecture Notes in Computer Science, 2020, , 99-110.	1.0	13
3077	Deep Learning for Hyperspectral Image Analysis, Part II: Applications to Remote Sensing and Biomedicine. Advances in Computer Vision and Pattern Recognition, 2020, , 69-115.	0.9	2
3078	Medical Image Enhancement Using Super Resolution Methods. Lecture Notes in Computer Science, 2020, , 496-508.	1.0	10

#	ARTICLE	IF	CITATIONS
3079	Building Super-Resolution Image Generator for OCR Accuracy Improvement. Lecture Notes in Computer Science, 2020, , 145-160.	1.0	8
3080	Invertible Image Rescaling. Lecture Notes in Computer Science, 2020, , 126-144.	1.0	94
3081	Exploiting Deep Generative Prior for Versatile Image Restoration and Manipulation. Lecture Notes in Computer Science, 2020, , 262-277.	1.0	70
3082	Photon-Efficient 3D Imaging with A Non-local Neural Network. Lecture Notes in Computer Science, 2020, , 225-241.	1.0	23
3083	LatticeNet: Towards Lightweight Image Super-Resolution with Lattice Block. Lecture Notes in Computer Science, 2020, , 272-289.	1.0	115
3084	Unpaired Image-to-Image Translation Using Adversarial Consistency Loss. Lecture Notes in Computer Science, 2020, , 800-815.	1.0	27
3085	Face Super-Resolution Guided by 3D Facial Priors. Lecture Notes in Computer Science, 2020, , 763-780.	1.0	37
3086	Binarized Neural Network for Single Image Super Resolution. Lecture Notes in Computer Science, 2020, , 91-107.	1.0	38
3087	SRFlow: Learning the Super-Resolution Space with Normalizing Flow. Lecture Notes in Computer Science, 2020, , 715-732.	1.0	115
3088	Journey Towards Tiny Perceptual Super-Resolution. Lecture Notes in Computer Science, 2020, , 85-102.	1.0	27
3089	Learning Surrogates via Deep Embedding. Lecture Notes in Computer Science, 2020, , 205-221.	1.0	5
3090	Learning with Privileged Information for Efficient Image Super-Resolution. Lecture Notes in Computer Science, 2020, , 465-482.	1.0	55
3091	Deep Decomposition Learning for Inverse Imaging Problems. Lecture Notes in Computer Science, 2020, , 510-526.	1.0	15
3092	Learning a Gradient Guidance for Spatially Isotropic MRI Super-Resolution Reconstruction. Lecture Notes in Computer Science, 2020, 12262, 136-146.	1.0	13
3093	Single Image Super-Resolution for Medical Image Applications. Lecture Notes in Computer Science, 2020, , 660-666.	1.0	4
3094	Lightweight Image Super-resolution with Local Attention Enhancement. Lecture Notes in Computer Science, 2020, , 219-231.	1.0	1
3095	Image Super-Resolution via Deep Feature Recalibration Network. Lecture Notes in Computer Science, 2020, , 256-267.	1.0	1
3096	Efficient Image Super-Resolution Using Pixel Attention. Lecture Notes in Computer Science, 2020, , 56-72.	1.0	152

#	ARTICLE	IF	CITATIONS
3097	Pyramidal Edge-Maps and Attention Based Guided Thermal Super-Resolution. Lecture Notes in Computer Science, 2020, , 698-715.	1.0	5
3098	Multi-attention Based Ultra Lightweight Image Super-Resolution. Lecture Notes in Computer Science, 2020, , 103-118.	1.0	41
3099	Fully Convolutional Networks in Medical Imaging: Applications to Image Enhancement and Recognition. Advances in Computer Vision and Pattern Recognition, 2017, , 159-179.	0.9	5
3100	Perceptual Losses for Real-Time Style Transfer and Super-Resolution. Lecture Notes in Computer Science, 2016, , 694-711.	1.0	4,037
3101	Fine-Scale Surface Normal Estimation Using a Single NIR Image. Lecture Notes in Computer Science, 2016, , 486-500.	1.0	9
3102	Convolutional Sketch Inversion. Lecture Notes in Computer Science, 2016, , 810-824.	1.0	17
3103	Face Hallucination Using Convolutional Neural Network with Iterative Back Projection. Lecture Notes in Computer Science, 2016, , 167-175.	1.0	3
3104	Scale-Adaptive Deconvolutional Regression Network for Pedestrian Detection. Lecture Notes in Computer Science, 2017, , 416-430.	1.0	6
3105	Video Enhancement via Super-Resolution Using Deep Quality Transfer Network. Lecture Notes in Computer Science, 2017, , 184-200.	1.0	1
3106	Convolutional Neural Networks. , 2017, , 85-130.		26
3107	A Deep Cascade of Convolutional Neural Networks for MR Image Reconstruction. Lecture Notes in Computer Science, 2017, , 647-658.	1.0	187
3108	Super Resolution Convolutional Neural Networks for Increasing Spatial Resolution of $^1\text{H}$ Magnetic Resonance Spectroscopic Imaging. Communications in Computer and Information Science, 2017, , 641-650.	0.4	4
3109	Learning-Based Image Scaling Using Neural-Like Structure of Geometric Transformation Paradigm. Studies in Computational Intelligence, 2018, , 537-565.	0.7	32
3110	Bayesian Image Quality Transfer with CNNs: Exploring Uncertainty in dMRI Super-Resolution. Lecture Notes in Computer Science, 2017, , 611-619.	1.0	67
3111	Isotropic Reconstruction of 3D Fluorescence Microscopy Images Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 126-134.	1.0	49
3112	End-to-End Learning of Video Super-Resolution with Motion Compensation. Lecture Notes in Computer Science, 2017, , 203-214.	1.0	36
3113	Context-Sensitive Super-Resolution for Fast Fetal Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2017, , 116-126.	1.0	21
3114	Single-Image Super-Resolution for Remote Sensing Data Using Deep Residual-Learning Neural Network. Lecture Notes in Computer Science, 2017, , 622-630.	1.0	14

#	ARTICLE	IF	CITATIONS
3115	Towards Evolutionary Super-Resolution. Lecture Notes in Computer Science, 2018, , 480-496.	1.0	4
3116	JPEG Image Super-Resolution via Deep Residual Network. Lecture Notes in Computer Science, 2018, , 472-483.	1.0	1
3117	Towards Underwater Image Enhancement Using Super-Resolution Convolutional Neural Networks. Communications in Computer and Information Science, 2018, , 479-486.	0.4	5
3118	Single-Image Super-Resolution: A Survey. Lecture Notes in Electrical Engineering, 2020, , 119-125.	0.3	6
3120	A Deep Learning Paradigm for Automated Face Attendance. Communications in Computer and Information Science, 2019, , 39-50.	0.4	3
3121	Video Super Resolution: A Review. Lecture Notes in Electrical Engineering, 2020, , 488-495.	0.3	10
3122	Advances in Single Image Super-Resolution: A Deep Learning Perspective. Lecture Notes in Networks and Systems, 2020, , 443-455.	0.5	3
3123	Democratizing LED-Based Photoacoustic Imaging with Adaptive Beamforming and Deep Convolutional Neural Network. Progress in Optical Science and Photonics, 2020, , 183-202.	0.3	4
3124	Deep Learning and Its Applications in Medical Imaging. Studies in Big Data, 2021, , 137-153.	0.8	4
3125	A Survey of Image Enhancement and Object Detection Methods. Advances in Intelligent Systems and Computing, 2021, , 1035-1047.	0.5	3
3126	Exploring Multi-scale Deep Encoder-Decoder and PatchGAN for Perceptual Ultrasound Image Super-Resolution. Communications in Computer and Information Science, 2020, , 47-59.	0.4	7
3127	Computationally Efficient Super-Resolution Approach for Real-World Images. Communications in Computer and Information Science, 2020, , 143-153.	0.4	1
3128	LMSN:a lightweight multi-scale network for single image super-resolution. Multimedia Systems, 2021, 27, 845-856.	3.0	4
3129	Single image super resolution via wavelet transform fusion and SRFeat network. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 5023-5031.	3.3	6
3130	A trusted medical image super-resolution method based on feedback adaptive weighted dense network. Artificial Intelligence in Medicine, 2020, 106, 101857.	3.8	27
3131	Super Resolution Perception for Improving Data Completeness in Smart Grid State Estimation. Engineering, 2020, 6, 789-800.	3.2	22
3132	The pace of artificial intelligence innovations: Speed, talent, and trial-and-error. Journal of Informetrics, 2020, 14, 101094.	1.4	23
3133	Quality Assessment of Friction Welding using Image Super-resolution via Deep Convolutional Neural Networks. Materials Today: Proceedings, 2020, 22, 2266-2273.	0.9	13

#	ARTICLE	IF	CITATIONS
3134	Lightweight image super-resolution with feature enhancement residual network. Neurocomputing, 2020, 404, 50-60.	3.5	14
3135	Efficient image classification technique for weather degraded fruit images. IET Image Processing, 2020, 14, 3463-3470.	1.4	14
3136	Non-uniform image blind deblurring by two-stage fully convolution network. IET Image Processing, 2020, 14, 2588-2596.	1.4	6
3137	Image super-resolution based on conditional generative adversarial network. IET Image Processing, 2020, 14, 3006-3013.	1.4	5
3138	Vehicle license plate recognition for fog-haze environments. IET Image Processing, 2021, 15, 1273-1284.	1.4	6
3139	Guided filter-based multi-scale super-resolution reconstruction. CAAI Transactions on Intelligence Technology, 2020, 5, 128-140.	3.4	12
3140	Image Super-Resolution for MRI Images using 3D Faster Super-Resolution Convolutional Neural Network architecture. ITM Web of Conferences, 2020, 32, 03044.	0.4	7
3141	Generative adversarial network-based sinogram super-resolution for computed tomography imaging. Physics in Medicine and Biology, 2020, 65, 235006.	1.6	16
3143	A convolutional neural network for fast upsampling of undersampled tomograms in X-ray CT time-series using a representative highly sampled tomogram. Journal of Synchrotron Radiation, 2019, 26, 839-853.	1.0	4
3144	A Frequency-Separated 3D-CNN for Hyperspectral Image Super-Resolution. IEEE Access, 2020, 8, 86367-86379.	2.6	14
3145	Single Image Super-Resolution using Residual Channel Attention Network. , 2020, , .		11
3146	Image Super-Resolution Reconstruction Method Based on Global and Local Residual Learning. , 2019, , .		4
3147	PET Image Super Resolution using Convolutional Neural Networks. , 2019, , .		3
3148	Single Image Super Resolution Using Convolutional Neural Networks for Noisy Images. , 2020, , .		3
3149	Remote Sensing Image Super-Resolution via Enhanced Back-Projection Networks. , 2020, , .		7
3150	Hyperspectral Pansharpening Using Deep Prior and Dual Attention Residual Network. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8059-8076.	2.7	77
3151	A Multi-Degradation Aided Method for Unsupervised Remote Sensing Image Super Resolution With Convolution Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	7
3152	Single Image Deraining Using Bilateral Recurrent Network. IEEE Transactions on Image Processing, 2020, 29, 6852-6863.	6.0	65

#	ARTICLE	IF	CITATIONS
3153	MHF-Net: An Interpretable Deep Network for Multispectral and Hyperspectral Image Fusion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1457-1473.	9.7	95
3154	Exploiting Raw Images for Real-Scene Super-Resolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	9.7	6
3155	Learning Deep Analysis Dictionaries for Image Super-Resolution. IEEE Transactions on Signal Processing, 2020, 68, 6633-6648.	3.2	9
3156	SSR-TVD: Spatial Super-Resolution for Time-Varying Data Analysis and Visualization. IEEE Transactions on Visualization and Computer Graphics, 2020, PP, 1-1.	2.9	20
3157	An Artificial Neural Network Approach for Generating High-Resolution Designs From Low-Resolution Input in Topology Optimization. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	13
3158	Single-shot compressed ultrafast photography: a review. Advanced Photonics, 2020, 2, 1.	6.2	47
3159	Super-resolution recurrent convolutional neural networks for learning with multi-resolution whole slide images. Journal of Biomedical Optics, 2019, 24, 1.	1.4	12
3160	Super-resolution reconstruction based on continued fractions interpolation kernel in the polar coordinates. Journal of Electronic Imaging, 2018, 27, 1.	0.5	6
3161	Realistic single-image super-resolution using autoencoding adversarial networks. Journal of Electronic Imaging, 2018, 27, 1.	0.5	3
3162	Single image rain removal via densely connected contextual and semantic correlation net. Journal of Electronic Imaging, 2019, 28, 1.	0.5	4
3163	U-net like deep autoencoders for deblurring atmospheric turbulence. Journal of Electronic Imaging, 2019, 28, 1.	0.5	14
3164	Single underwater image restoration based on adaptive color correction and adaptive transmission fusion. Journal of Electronic Imaging, 2020, 29, 1.	0.5	4
3165	Overcoming detector limitations of x-ray photon counting for preclinical microcomputed tomography. Journal of Medical Imaging, 2018, 6, 1.	0.8	3
3166	Comprehensive survey of deep learning in remote sensing: theories, tools, and challenges for the community. Journal of Applied Remote Sensing, 2017, 11, 1.	0.6	435
3167	SFTGAN: a generative adversarial network for pan-sharpening equipped with spatial feature transform layers. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	10
3168	Super-resolution reconstruction of remote sensing images based on convolutional neural network. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	25
3169	Computational optical tomography using 3-D deep convolutional neural networks. Optical Engineering, 2018, 57, 1.	0.5	6
3170	Data-driven structural diagnosis and conditional assessment: from shallow to deep learning. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
3171	Sharpness preserved sinogram synthesis using convolutional neural network for sparse-view CT imaging. , 2019, , .		5
3172	The importance of physical pre-processors for quantitative phase retrieval under extremely low photon counts. , 2019, , .		1
3173	Deep learning in computational microscopy. , 2019, , .		1
3174	Perceptually-inspired super-resolution of compressed videos. , 2019, , .		8
3175	On the robustness of compressive sensing hyperspectral image reconstruction using convolutional neural network. , 2019, , .		4
3176	Application of an enhanced deep super-resolution network in retinal image analysis. , 2020, , .		3
3177	Analysis of deep learning architectures for turbulence mitigation in long-range imagery. , 2020, , .		4
3178	Learning to simplify. ACM Transactions on Graphics, 2016, 35, 1-11.	4.9	152
3179	Symmetrical Residual Connections for Single Image Super-Resolution. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-10.	3.0	5
3181	Multi-Scale Invertible Network for Image Super-Resolution. , 2019, , .		10
3182	Hyperspectral reconstruction from RGB images for vein visualization. , 2020, , .		9
3183	Deep learning based wireless localization for indoor navigation. , 2020, , .		85
3184	End-to-end Learned, Optically Coded Super-resolution SPAD Camera. ACM Transactions on Graphics, 2020, 39, 1-14.	4.9	31
3185	SARDINE. ACM Transactions on Spatial Algorithms and Systems, 2020, 6, 1-26.	1.1	8
3186	A Video Frame Resolution and Frame Rate Amplification Method with Optical Flow Method and ESPCN Model. , 2020, , .		1
3187	Neural supersampling for real-time rendering. ACM Transactions on Graphics, 2020, 39, .	4.9	50
3188	Single image HDR reconstruction using a CNN with masked features and perceptual loss. ACM Transactions on Graphics, 2020, 39, .	4.9	84
3189	Illumination Compensation And Image Denoising for Low-Light Images Based on Deep Learning. , 2019, , .		1



#	ARTICLE	IF	CITATIONS
3190	A Deep Journey into Super-resolution. ACM Computing Surveys, 2021, 53, 1-34.	16.1	183
3191	Dual-view Attention Networks for Single Image Super-Resolution. , 2020, , .		10
3192	Memory Recursive Network for Single Image Super-Resolution. , 2020, , .		3
3193	DCSFN: Deep Cross-scale Fusion Network for Single Image Rain Removal. , 2020, , .		56
3194	Discernible Image Compression. , 2020, , .		9
3195	Learning Instrument Invariant Characteristics for Generating High-resolution Global Coral Reef Maps. , 2020, , .		3
3196	Kernel Attention Network for Single Image Super-Resolution. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-15.	3.0	15
3197	Computer Vision-based Methodology to Improve Interaction for People with Motor and Speech Impairment. ACM Transactions on Accessible Computing, 2020, 13, 1-33.	1.9	11
3198	Decoder-Side Quality Enhancement of JPEG Images Using Deep Learning-Based Prediction Models for Quantized DCT Coefficients. , 2020, , .		3
3199	Deep-Learning-Based Gridded Downscaling of Surface Meteorological Variables in Complex Terrain. Part I: Daily Maximum and Minimum 2-m Temperature. Journal of Applied Meteorology and Climatology, 2020, 59, 2057-2073.	0.6	33
3200	Recognition of Printed Mathematical Formula Symbols Based on Convolutional Neural Network. DEStech Transactions on Computer Science and Engineering, 2019, , .	0.1	5
3201	Sparse-view imaging of a fiber internal structure in holographic diffraction tomography via a convolutional neural network. Applied Optics, 2021, 60, A234.	0.9	7
3202	DD-Net: spectral imaging from a monochromatic dispersed and diffused snapshot. Applied Optics, 2020, 59, 11196.	0.9	9
3203	Learning-based single-shot superresolution in diffractive imaging. Applied Optics, 2017, 56, 8896.	0.9	8
3204	Exo-atmospheric infrared objects classification using recurrence-plots-based convolutional neural networks. Applied Optics, 2019, 58, 164.	0.9	9
3205	Batch denoising of ESPI fringe patterns based on convolutional neural network. Applied Optics, 2019, 58, 3338.	0.9	44
3206	Resolution enhancement in quantitative phase microscopy. Advances in Optics and Photonics, 2019, 11, 135.	12.1	68
3207	DeepLSR: a deep learning approach for laser speckle reduction. Biomedical Optics Express, 2019, 10, 2869.	1.5	21

#	ARTICLE	IF	CITATIONS
3208	Improved generative adversarial networks using the total gradient loss for the resolution enhancement of fluorescence images. Biomedical Optics Express, 2019, 10, 4742.	1.5	6
3209	Comparative study of deep learning models for optical coherence tomography angiography. Biomedical Optics Express, 2020, 11, 1580.	1.5	35
3210	Three-dimensional localization microscopy using deep learning. Optics Express, 2018, 26, 33166.	1.7	45
3211	Super-resolution imaging for infrared micro-scanning optical system. Optics Express, 2019, 27, 7719.	1.7	10
3212	An end-to-end fully-convolutional neural network for division of focal plane sensors to reconstruct $S_{<sub>O</sub>}$ , DoLP, and AoP. Optics Express, 2019, 27, 8566.	1.7	39
3213	Simultaneous denoising and super-resolution of optical coherence tomography images based on generative adversarial network. Optics Express, 2019, 27, 12289.	1.7	94
3214	Pixel super-resolution for lens-free holographic microscopy using deep learning neural networks. Optics Express, 2019, 27, 13581.	1.7	42
3215	One-step robust deep learning phase unwrapping. Optics Express, 2019, 27, 15100.	1.7	219
3216	Neural network model combined with pupil recovery for Fourier ptychographic microscopy. Optics Express, 2019, 27, 24161.	1.7	22
3217	High-quality panchromatic image acquisition method for snapshot hyperspectral imaging Fourier transform spectrometer. Optics Express, 2019, 27, 28915.	1.7	6
3218	Label enhanced and patch based deep learning for phase retrieval from single frame fringe pattern in fringe projection 3D measurement. Optics Express, 2019, 27, 28929.	1.7	57
3219	DeepCubeNet: reconstruction of spectrally compressive sensed hyperspectral images with deep neural networks. Optics Express, 2019, 27, 35811.	1.7	30
3220	Probing shallower: perceptual loss trained Phase Extraction Neural Network (PLT-PhENN) for artifact-free reconstruction at low photon budget. Optics Express, 2020, 28, 2511.	1.7	19
3221	Deep-learning projector for optical diffraction tomography. Optics Express, 2020, 28, 3905.	1.7	19
3222	Rapid super resolution for infrared imagery. Optics Express, 2020, 28, 27196.	1.7	1
3223	Fast compressive lens-free tomography for 3D biological cell culture imaging. Optics Express, 2020, 28, 26935.	1.7	8
3224	Adaptive terahertz image super-resolution with adjustable convolutional neural network. Optics Express, 2020, 28, 22200.	1.7	38
3225	Deep learning-based fringe modulation-enhancing method for accurate fringe projection profilometry. Optics Express, 2020, 28, 21692.	1.7	41

#	ARTICLE	IF	CITATIONS
3226	Correction of refractive index mismatch-induced aberrations under radially polarized illumination by deep learning. Optics Express, 2020, 28, 26028.	1.7	5
3227	Deep neural network for multi-depth hologram generation and its training strategy. Optics Express, 2020, 28, 27137.	1.7	65
3228	Generation of distortion-free scaled holograms using light field data conversion. Optics Express, 2021, 29, 487.	1.7	8
3229	Super-resolution reconstruction of a digital elevation model based on a deep residual network. Open Geosciences, 2020, 12, 1369-1382.	0.6	10
3230	Defect Detection and Monitoring in Metal Additive Manufactured Parts through Deep Learning of Spatially Resolved Acoustic Spectroscopy Signals. Smart and Sustainable Manufacturing Systems, 2018, 2, 20180035.	0.3	19
3231	Adaptive interpolation based on optimization of the decision rule in a multidimensional feature space. Computer Optics, 2020, 44, .	1.3	5
3232	Evaluation of Classification Performance of Pole-Like Objects from MMS Images Using Convolutional Neural Network and Image Super Resolution. International Journal of Automation Technology, 2018, 12, 369-375.	0.5	5
3233	Extensible Implementation of Reliable Pixel Art Interpolation. Foundations of Computing and Decision Sciences, 2019, 44, 213-239.	0.5	3
3234	Learning to Hallucinate Face Images via Component Generation and Enhancement. , 2017, , .		75
3235	Artificial Intelligence in Neuroradiology: Current Status and Future Directions. American Journal of Neuroradiology, 2020, 41, E52-E59.	1.2	14
3236	Saliency detection in deep learning era: trends of development. Informatsionno-Upravliaiushchie Sistemy, 2019, , 10-36.	0.3	4
3237	Research on the Application of Super Resolution Reconstruction Algorithm for Underwater Image. Computers, Materials and Continua, 2020, 62, 1249-1258.	1.5	11
3238	Image Super-Resolution Based on CNN Using Multilabel Gene Expression Programming. Applied Sciences (Switzerland), 2020, 10, 854.	1.3	5
3239	Do Game Data Generalize Well for Remote Sensing Image Segmentation?. Remote Sensing, 2020, 12, 275.	1.8	16
3240	A Detail-Preserving Cross-Scale Learning Strategy for CNN-Based Pansharpening. Remote Sensing, 2020, 12, 348.	1.8	41
3241	RSCNN: A CNN-Based Method to Enhance Low-Light Remote-Sensing Images. Remote Sensing, 2021, 13, 62.	1.8	57
3242	Neural network technology adaptation to the small-size objects identification in satellite images of insufficient resolution within the graphic reference images database. Ukrainian Journal of Remote Sensing, 2020, , 13-17.	0.3	3
3243	A Review of Deep Learning Research. KSII Transactions on Internet and Information Systems, 2019, 13, .	0.7	22

#	ARTICLE	IF	CITATIONS
3244	An Introduction to Deep Convolutional Neural Networks With Keras. Advances in Computer and Electrical Engineering Book Series, 2020, , 231-272.	0.2	7
3245	Performance Evaluation of Super-Resolution Methods Using Deep-Learning and Sparse-Coding for Improving the Image Quality of Magnified Images in Chest Radiographs. Open Journal of Medical Imaging, 2017, 07, 100-111.	0.1	7
3246	Super-Resolution Imaging of Mammograms Based on the Super-Resolution Convolutional Neural Network. Open Journal of Medical Imaging, 2017, 07, 180-195.	0.1	19
3247	Experiment and Dynamic Simulation of Cervical Traction in Inclined and Sitting Positions. Open Journal of Therapy and Rehabilitation, 2017, 05, 83-97.	0.1	3
3248	DEEP RESIDUAL LEARNING FOR SINGLE-IMAGE SUPER-RESOLUTION OF MULTI-SPECTRAL SATELLITE IMAGERY. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W7, 189-196.	0.0	8
3249	SUPER-RESOLUTION OF MULTISPECTRAL SATELLITE IMAGES USING CONVOLUTIONAL NEURAL NETWORKS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-1-2020, 33-40.	0.0	26
3250	SINGLE-IMAGE SUPER RESOLUTION FOR MULTISPECTRAL REMOTE SENSING DATA USING CONVOLUTIONAL NEURAL NETWORKS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 883-890.	0.2	44
3251	Very deep super-resolution for efficient cone-beam computed tomographic image restoration. Imaging Science in Dentistry, 2020, 50, 331.	0.6	5
3252	Convolutional neural networks to automate the screening of malaria in low-resource countries. PeerJ, 2020, 8, e9674.	0.9	18
3253	Cone Beam Computed Tomography Image Quality Improvement Using a Deep Convolutional Neural Network. Cureus, 2018, 10, e2548.	0.2	78
3254	Pansharpening via Sub-Pixel Convolutional Residual Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, , 1-1.	2.3	3
3255	Deep Illumination-Aware Dehazing With Low-Light and Detail Enhancement. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2494-2508.	4.7	8
3256	YOLO-FIRI: Improved YOLOv5 for Infrared Image Object Detection. IEEE Access, 2021, 9, 141861-141875.	2.6	96
3257	Semi-Supervised Auto-Encoder Graph Network for Diabetic Retinopathy Grading. IEEE Access, 2021, 9, 140759-140767.	2.6	14
3258	Image Super-Resolution. , 2021, , 646-650.		0
3259	Progressive Multi-scale Reconstruction for Guided Depth Map Super-Resolution via Deep Residual Gate Fusion Network. Lecture Notes in Computer Science, 2021, , 67-79.	1.0	0
3260	CNN Aided Weighted Interpolation for Channel Estimation in Vehicular Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 12796-12811.	3.9	17
3261	A Low-Cost Hardware Design of Learning-Based One-Dimensional Interpolation for Real-Time Video Applications at the Edge. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2021, 11, 677-689.	2.7	1

#	ARTICLE	IF	CITATIONS
3262	Depth Map Reconstruction and Enhancement With Local and Patch Manifold Regularized Deep Depth Priors. IEEE Access, 2021, 9, 136111-136125.	2.6	0
3263	Multi-contrast MRI Super-Resolution via a Multi-stage Integration Network. Lecture Notes in Computer Science, 2021, , 140-149.	1.0	45
3264	Complexity-Reduced Super Resolution for Foveation-Based Driving Head Mounted Displays. IEEE Access, 2021, 9, 140042-140049.	2.6	1
3265	Deep-Learning-Based Super-Resolution of Video Satellite Imagery by the Coupling of Multiframe and Single-Frame Models. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	4
3266	Super Resolution Guided Deep Network for Land Cover Classification From Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	19
3267	Machine Learning for Environmental Sensing. , 2021, , .		0
3268	Video Quality Enhancement using Generative Adversarial Networks-based Super-Resolution and Noise Removal. , 2021, , .		0
3269	Electrical Resistance Tomography Image Reconstruction Based on Res2net4 Network. , 2021, , .		0
3270	Sentinel-3 Image Super-Resolution Using Data Fusion and Convolutional Neural Networks. , 2021, , .		0
3271	Residual Net Use on FSRCNN for Image Super-Resolution. , 2021, , .		0
3272	Learn to have Color and Detail: An End-to-End Panchromatic Image Enhancement. , 2021, , .		0
3273	Increasing Landsat 5 TM Spatial Resolution to 15 M Using a Super-Resolution Deep Learning Model Trained with Pan-Sharpened Landsat 7 ETM+ DATA. , 2021, , .		0
3274	Deep Learning for Multiple-Image Super-Resolution of Sentinel-2 Data. , 2021, , .		10
3275	Robust and Efficient ISAR Autofocusing Based on Deep Convolution Network. , 2021, , .		1
3276	Sparse Representation Based Image Super-resolution Combining Rotation Strategy and Nonlocal Self-similarity. , 2021, , .		1
3277	Self-Attention Fusion Module for Single Remote Sensing Image Super-Resolution. , 2021, , .		2
3278	Face Detection And Recognition In Complex Environments. , 2021, , .		1
3279	Hyperspectral Image Super-Resolution Based on Multiscale Residual Block and Multilevel Feature Fusion. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
3280	Multi-Kernel Deformable 3D Convolution for Video Super-Resolution. , 2021, , .		1
3281	Information multiple distillation super resolution network based on feedback mechanism. , 2021, , .		0
3282	FaceCognize: An approach to Face Recognition for low resolution image. , 2021, , .		0
3283	Few Pains, Many Gains: Fast On-device Image Compression through Super Resolution. , 2021, , .		1
3284	A Generative Approach to Visualizing Satellite Data. , 2021, , .		0
3285	Reconstructing the Medical Image by Autoencoder with Stochastic Processing in Neural Network. , 2021, , .		0
3286	An efficient medical image super resolution based on piecewise linear regression strategy using domain transform filtering. Concurrency Computation Practice and Experience, 2022, 34, e6644.	1.4	4
3287	A Review of Modern Thermal Imaging Sensor Technology and Applications for Autonomous Aerial Navigation. Journal of Imaging, 2021, 7, 217.	1.7	19
3288	Boosting Lightweight Single Image Super-resolution via Joint-distillation. , 2021, , .		3
3289	Edge-oriented Convolution Block for Real-time Super Resolution on Mobile Devices. , 2021, , .		70
3290	Mix-order Attention Networks for Image Restoration. , 2021, , .		1
3291	Improving the Classification Rate of Insulation Defects in Power Cables by Automatic Features Extraction and Sample Augmentation of Partial Discharge Signal. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, .	0.7	2
3292	Video surveillance image enhancement via a convolutional neural network and stacked denoising autoencoder. Neural Computing and Applications, 2022, 34, 3079-3095.	3.2	7
3293	Perception-Oriented Stereo Image Super-Resolution. , 2021, , .		6
3294	Self-feature Learning. , 2021, , .		8
3295	Convolutional Neural Network for Pansharpener with Spatial Structure Enhancement Operator. Remote Sensing, 2021, 13, 4062.	1.8	1
3296	Real-time optical reconstruction for a three-dimensional light-field display based on path-tracing and CNN super-resolution. Optics Express, 2021, 29, 37862.	1.7	13
3297	Downscaling MODIS spectral bands using deep learning. GIScience and Remote Sensing, 2021, 58, 1300-1315.	2.4	9

#	ARTICLE	IF	CITATIONS
3298	S2A: Scale-Attention-Aware Networks for Video Super-Resolution. Entropy, 2021, 23, 1398.	1.1	4
3299	Hyperspectral Image Super-Resolution Based on Spatial Correlation-Regularized Unmixing Convolutional Neural Network. Remote Sensing, 2021, 13, 4074.	1.8	10
3300	Super-Resolution Cine Image Enhancement for Fetal Cardiac Magnetic Resonance Imaging. Journal of Magnetic Resonance Imaging, 2022, 56, 223-231.	1.9	10
3301	Ring artifact removal for differential phase-contrast X-ray computed tomography using a conditional generative adversarial network. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1889-1900.	1.7	0
3302	Fully Quantized Image Super-Resolution Networks. , 2021, , .		12
3303	Ada-VSR: Adaptive Video Super-Resolution with Meta-Learning. , 2021, , .		2
3304	Robust Real-World Image Super-Resolution against Adversarial Attacks. , 2021, , .		10
3305	Generating Adversarial Remote Sensing Images via Pan-Sharpener Technique. , 2021, , .		0
3306	Fast Image Super-Resolution Based on Limit Gradient Embedding Cascaded Forest. Circuits, Systems, and Signal Processing, 2022, 41, 2007-2026.	1.2	2
3307	GUV-Net for high fidelity shoeprint generation. Complex & Intelligent Systems, 0, , 1.	4.0	3
3308	2D-to-3D image translation of complex nanoporous volumes using generative networks. Scientific Reports, 2021, 11, 20768.	1.6	3
3309	Dynamic dual attention iterative network for image super-resolution. Applied Intelligence, 0, , 1.	3.3	0
3310	Reducing System Load of Effective Video Using a Network Model. Applied Sciences (Switzerland), 2021, 11, 9665.	1.3	0
3311	Super-Resolution Network with Information Distillation and Multi-Scale Attention for Medical CT Image. Sensors, 2021, 21, 6870.	2.1	6
3312	PRNet. , 2021, , .		3
3313	Interpreting Super-Resolution CNNs for Sub-Pixel Motion Compensation in Video Coding. , 2021, , .		1
3314	Super-Resolution with adversarial loss on the feature maps of the generated high-resolution image. Electronics Letters, 2022, 58, 47-49.	0.5	2
3315	A Physically Constrained Variational Autoencoder for Geochemical Pattern Recognition. Mathematical Geosciences, 2022, 54, 783-806.	1.4	23

#	ARTICLE	IF	CITATIONS
3316	Design of Flexible Hardware Accelerators for Image Convolutions and Transposed Convolutions. Journal of Imaging, 2021, 7, 210.	1.7	7
3317	Gastric examination using a novel three-dimensional magnetically assisted capsule endoscope and a hand-held magnetic controller: A porcine model study. PLoS ONE, 2021, 16, e0256519.	1.1	1
3318	PFFN. , 2021, , .		10
3319	Information-Growth Attention Network for Image Super-Resolution. , 2021, , .		7
3321	Scene Text Image Super-Resolution via Parallely Contextual Attention Network. , 2021, , .		15
3322	A Generative Adversarial Network technique for high-quality super-resolution reconstruction of cardiac magnetic resonance images. Magnetic Resonance Imaging, 2022, 85, 153-160.	1.0	28
3323	Deep learning approaches to inverse problems in imaging: Past, present and future. , 2021, 119, 103285.		7
3325	Fast Defocus Blur Detection Network via Global Search and Local Refinements. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	0.7	0
3326	An Effective Multi-Task Two-Stage Network with the Cross-Scale Training Strategy for Multi-Scale Image Super Resolution. Electronics (Switzerland), 2021, 10, 2434.	1.8	2
3327	Super-Resolved Recognition of License Plate Characters. Mathematics, 2021, 9, 2494.	1.1	9
3329	CNN Variants for Computer Vision: History, Architecture, Application, Challenges and Future Scope. Electronics (Switzerland), 2021, 10, 2470.	1.8	226
3330	Super-resolution of Pneumocystis carinii pneumonia CT via self-attention GAN. Computer Methods and Programs in Biomedicine, 2021, 212, 106467.	2.6	6
3331	Progressive split-merge super resolution for hyperspectral imagery with group attention and gradient guidance. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 182, 14-36.	4.9	16
3332	Development of learning-based noise reduction and image reconstruction algorithm in two dimensional Rayleigh thermometry. Optik, 2021, 248, 168082.	1.4	4
3333	Single Image Super Resolution with Neighbor Embedding and In-place Patch Matching. Lecture Notes in Computer Science, 2016, , 493-502.	1.0	0
3334	Perceptual Loss with Fully Convolutional for Image Residual Denoising. Communications in Computer and Information Science, 2016, , 122-132.	0.4	2
3335	Parallel Implementation of Super-Resolution Based Neighbor Embedding Using GPU. Advances in Intelligent Systems and Computing, 2017, , 628-638.	0.5	0
3336	Image Super-resolution Using Mid-level Representations. DEStech Transactions on Engineering and Technology Research, 2016, , .	0.0	0



#	ARTICLE	IF	CITATIONS
3337	Sparse Representation with Global and Nonlocal Self-similarity Prior for Single Image Super-Resolution. Lecture Notes in Computer Science, 2017, , 222-230.	1.0	0
3339	Image Enhancement. Advances in Computer Vision and Pattern Recognition, 2017, , 125-172.	0.9	0
3340	Deep Convolutional Networks-Based Image Super-Resolution. Lecture Notes in Computer Science, 2017, , 338-344.	1.0	3
3341	Generic 3D Convolutional Fusion for Image Restoration. Lecture Notes in Computer Science, 2017, , 159-176.	1.0	2
3342	Complementing SRCNN by Transformed Self-Exemplars. Lecture Notes in Computer Science, 2017, , 127-136.	1.0	0
3343	Light Field Super-Resolution Using Cross-Resolution Input Based on PatchMatch and Learning Method. Communications in Computer and Information Science, 2017, , 334-344.	0.4	1
3344	Resolution enhancement for x-ray images. , 2017, , .		0
3345	Super-Resolution using Sub-pixel Recursive Adversarial Network with Perceptual Loss. International Journal of Computer Applications, 2017, 173, 28-34.	0.2	1
3346	Dynamic frame resizing with convolutional neural network for efficient video compression. , 2017, , .		0
3347	Deep Convolution Neural Networks for Automatic Eyeglasses Removal. DEStech Transactions on Computer Science and Engineering, 2017, , .	0.1	4
3348	New developments in super-resolution for GaoFen-4. , 2017, , .		1
3349	Super-Resolution Reconstruction of Plane-Wave Ultrasound Imaging Based on the Improved CNN Method. Lecture Notes in Computational Vision and Biomechanics, 2018, , 111-120.	0.5	0
3350	Image Super-Resolution Techniques based on Machine Learning: Comparative Review. International Robotics & Automation Journal, 2017, 3, .	0.3	1
3351	Content Adaptive Constraint Based Image Upsampling. Lecture Notes in Computer Science, 2018, , 827-837.	1.0	0
3352	Spatial-Temporal Recurrent Residual Networks for Video Super-Resolution. Communications in Computer and Information Science, 2018, , 115-127.	0.4	2
3353	How to Efficiently Identify Real and Pseudo 4K Video Contents?. Communications in Computer and Information Science, 2018, , 138-146.	0.4	0
3354	Human Face Super-Resolution Based on Hybrid Algorithm. Advances in Molecular Imaging, 2018, 08, 39-47.	0.3	0
3355	Color Image Super Resolution by Using Cross-Channel Correlation. Lecture Notes in Computer Science, 2018, , 471-481.	1.0	0

#	ARTICLE	IF	CITATIONS
3356	Towards Robust Evaluation of Super-Resolution Satellite Image Reconstruction. Lecture Notes in Computer Science, 2018, , 476-486.	1.0	4
3357	Mixed-Noise Removal in Images Based on a Convolutional Neural Network. Lecture Notes in Computer Science, 2018, , 453-464.	1.0	0
3358	Single Image Super-Resolution via Perceptual Loss Guided by Denoising Auto-Encoder. Lecture Notes in Computer Science, 2018, , 126-136.	1.0	0
3359	Sea Surface Object Recognition Under the Low-Light Environment. Lecture Notes in Computer Science, 2018, , 346-356.	1.0	1
3360	AWCR: Adaptive and Weighted Collaborative Representations for Face Super-Resolution with Context Residual-Learning. Lecture Notes in Computer Science, 2018, , 107-116.	1.0	0
3361	Infrared Image Enhancement in Maritime Environment with Convolutional Neural Networks. , 2018, , .		7
3362	Single Image Super-Resolution Using Multi-scale Convolutional Neural Network. Lecture Notes in Computer Science, 2018, , 149-157.	1.0	2
3363	Improving Multiple-Image Super-Resolution for Mobile Devices through Image Alignment Selection. Journal of WSCG, 2018, 26, .	0.6	1
3364	High-resolution CT image retrieval using sparse convolutional neural network. , 2018, 10573, .		4
3365	Sinogram synthesis using convolutional-neural-network for sparsely view-sampled CT. , 2018, , .		3
3366	Fast super-resolution with iterative-guided back projection for 3D MR images. , 2018, , .		0
3367	A deeper convolutional neural network for denoising low-dose CT images. , 2018, , .		0
3368	A Survey on Detecting License Plates from Low Quality Images. International Journal of Computer Applications, 2018, 180, 9-15.	0.2	1
3369	Context adaptive panchromatic band simulation and detail injection for image pansharpening. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	1
3370	Single image super-resolution based on convolutional neural networks. , 2018, , .		0
3371	Super-resolution using a light inception layer in convolutional neural network. , 2018, , .		0
3372	Deep generative adversarial networks for infrared image enhancement. , 2018, , .		1
3373	Single Image Super Resolution Using Deep Convolutional Neural Networks. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
3374	2D and 3D computational optical imaging using deep convolutional neural networks (DCNNs). , 2018, , .		1
3375	Super-resolution for noisy images via deep convolutional neural network. , 2018, , .		0
3376	Super-Resolution with Horizontal and Vertical Convolutional Neural Networks. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 957-963.	0.1	0
3377	Multiscale super-resolution reconstruction via multibranch prediction and selection network. Journal of Electronic Imaging, 2018, 27, 1.	0.5	0
3378	Single image super-resolution based on residual learning and convolutional sparse coding. , 2018, , .		0
3379	Single image super resolution by multichannel densely connected convolutional network. Journal of Electronic Imaging, 2018, 27, 1.	0.5	0
3380	Spatial resolution adaptation framework for video compression. , 2018, , .		1
3381	Neural net architectures for image demosaicing. , 2018, , .		1
3382	Standard-Compliant Multiple Description Image Coding Based on Convolutional Neural Networks. IEICE Transactions on Information and Systems, 2018, E101.D, 2543-2546.	0.4	0
3383	Image super-resolution reconstruction based on residual dictionary learning by support vector regression. , 2018, , .		0
3384	Optimal physical preprocessing for example-based super-resolution. Optics Express, 2018, 26, 31333.	1.7	16
3385	Football Players Pose Estimation. Advances in Intelligent Systems and Computing, 2019, , 63-70.	0.5	0
3386	A Deep Learning-based Model for Phase Unwrapping. , 2018, , .		5
3388	Adaptive Windows Convolutional Neural Network for Speech Recognition. Signal and Data Processing, 2018, 15, 13-30.	0.0	1
3390	Learning to perform joint image super-resolution and rain removal via a single-convolutional neural network. Journal of Electronic Imaging, 2018, 27, 1.	0.5	3
3391	Jujube Classification Based on a Convolution Neural Network with Multi-channel Weighting and Information Aggregation. Food Science and Technology Research, 2019, 25, 647-656.	0.3	3
3392	Tensor Super-Resolution with Generative Adversarial Nets: A Large Image Generation Approach. Communications in Computer and Information Science, 2019, , 209-223.	0.4	1
3394	Image Super Resolution via Bilinear Pooling: Application to Confocal Endomicroscopy. Lecture Notes in Computer Science, 2019, , 236-244.	1.0	1

#	ARTICLE	IF	CITATIONS
3395	FH-GAN: Face Hallucination and Recognition Using Generative Adversarial Network. Lecture Notes in Computer Science, 2019, , 3-15.	1.0	8
3396	Residual Learning Based Convolutional Neural Network for Super Resolution. Journal of Image and Graphics(United Kingdom), 2019, 7, 126-129.	3.1	11
3397	An Efficient Quality Enhancement Solution for Stereo Images. Lecture Notes in Computer Science, 2019, , 169-180.	1.0	0
3398	Face Sketch Synthesis Based on Adaptive Similarity Regularization. Lecture Notes in Computer Science, 2019, , 226-237.	1.0	0
3399	Gradually Growing Residual and Self-attention Based Dense Deep Back Projection Network for Large Scale Super-Resolution of Image. Lecture Notes in Computer Science, 2019, , 260-268.	1.0	0
3400	Multi-Source Deep Residual Fusion Network for Depth Image Super-resolution. , 2019, , .		1
3401	Enhancing the Resolution of Satellite Images Using the Best Matching Image Fragment. Lecture Notes in Computer Science, 2019, , 576-586.	1.0	0
3402	How to Reliably Upsample Screen Content Images?. Communications in Computer and Information Science, 2019, , 65-73.	0.4	0
3403	Single Image Super-Resolution for Optical Satellite Scenes Using Deep Deconvolutional Network. Lecture Notes in Computer Science, 2019, , 410-420.	1.0	4
3404	Cooperative Adversarial Network for Accurate Super Resolution. Lecture Notes in Computer Science, 2019, , 98-114.	1.0	0
3405	Robust Hyperspectral Image Pan-Sharpener via Channel-Constrained Spatial Spectral Network. Lecture Notes in Computer Science, 2019, , 561-571.	1.0	0
3406	Asymmetric Pyramid Based Super Resolution from Very Low Resolution Face Image. Lecture Notes in Computer Science, 2019, , 694-702.	1.0	0
3407	Research on Image-to-Image Translation with Capsule Network. Lecture Notes in Computer Science, 2019, , 141-151.	1.0	0
3408	Nonlinear Contextual Face Hallucination. Communications in Computer and Information Science, 2019, , 249-258.	0.4	1
3409	Generative Low-Dose CT Image Denoising. Advances in Computer Vision and Pattern Recognition, 2019, , 277-297.	0.9	2
3410	Deep Residual Network for Single Image Super-Resolution. , 2019, , .		3
3411	An Effective Network with ConvLSTM for Low-Light Image Enhancement. Lecture Notes in Computer Science, 2019, , 221-233.	1.0	8
3412	A Comparison Study of Deep Learning Techniques to Increase the Spatial Resolution of Photo-Realistic Images. Communications in Computer and Information Science, 2019, , 341-348.	0.4	0

#	ARTICLE	IF	CITATIONS
3413	RBPNET: An Asymptotic Residual Back-Projection Network for Super Resolution of Very Low Resolution Face Image. Lecture Notes in Computer Science, 2019, , 175-186.	1.0	0
3414	Deep Residual Neural Network Design for Super-Resolution Imaging. Communications in Computer and Information Science, 2019, , 95-105.	0.4	0
3415	Super Resolution for Multi Frames with 3D Feature Extraction and RNN Prediction. , 2019, , .		0
3416	Deep Feature Translation Network Guided by Combined Loss for Single Image Super-Resolution. Lecture Notes in Computer Science, 2019, , 664-677.	1.0	0
3417	Single Image Super-Resolution by Parallel CNN with Skip Connections and ResNet. Lecture Notes in Computer Science, 2019, , 181-187.	1.0	0
3418	Face Super-Resolution via Discriminative-Attributes. Lecture Notes in Computer Science, 2019, , 487-497.	1.0	0
3419	A Universal Fusion Strategy for Image Super-Resolution Jointly from External and Internal Examples. Lecture Notes in Computer Science, 2019, , 714-723.	1.0	0
3420	Fast Dynamic Perfusion and Angiography Reconstruction Using an End-to-End 3D Convolutional Neural Network. Lecture Notes in Computer Science, 2019, , 25-35.	1.0	0
3421	Shuffle Dense Networks for Biometric Authentication. Lecture Notes in Computer Science, 2019, , 143-156.	1.0	0
3422	Data-driven Face Hallucination by Inverse Degradation Neural Network. , 2019, , .		0
3423	Deep Feature-Preserving Based Face Hallucination: Feature Discrimination Versus Pixels Approximation. Lecture Notes in Computer Science, 2019, , 114-125.	1.0	1
3424	ChaLearn Looking at People: Inpainting and Denoising Challenges. The Springer Series on Challenges in Machine Learning, 2019, , 23-44.	10.4	1
3425	Generation of high-resolution and speckle reduced light field data from hologram using deep learning. , 2019, , .		1
3426	Thermal Image SuperResolution Through Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2019, , 417-426.	1.0	23
3427	Structure-preserving video super-resolution using three-dimensional convolutional neural networks. Journal of Electronic Imaging, 2019, 28, 1.	0.5	2
3428	Single-image super-resolution reconstruction via generative adversarial network. , 2019, , .		0
3429	Investigation on slice direction dependent denoising performance of convolutional neural network in cone-beam CT images. , 2019, , .		0
3430	Deep neural networks for seeing through multimode fibers. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
3431	Multifocus image fusion method based on a convolutional neural network. Journal of Electronic Imaging, 2019, 28, 1.	0.5	3
3432	Convolutional neural networks for the reconstruction of spectra in compressive sensing spectrometers. , 2019, , .		3
3433	A path to high-quality imaging through disordered optical fibers: a review. Applied Optics, 2019, 58, D50.	0.9	5
3434	Locally adaptive super-resolution through spatially variant interpolation. Applied Optics, 2019, 58, 2920.	0.9	2
3435	Light-weight residual learning for single image dehazing. Journal of Electronic Imaging, 2019, 28, 1.	0.5	2
3436	Towards image and video super-resolution for improved analytics from overhead imagery. , 2019, , .		0
3437	Super resolution-assisted deep aerial vehicle detection. , 2019, , .		10
3438	Sheared multi-scale weight sharing for multi-spectral superresolution. , 2019, , .		0
3439	Deep CNN jointing low-high level feature for image super-resolution. , 2019, , .		0
3440	Deep learning based super resolution of aerial and satellite imagery. , 2019, , .		0
3441	Image Restoration Network with Adaptive Channel Attention Modules for Combined Distortions. Journal of the Korea Computer Graphics Society, 2019, 25, 1-9.	0.1	1
3442	Quad Tree Based 2D Smoke Super-resolution with CNN. Journal of the Korea Computer Graphics Society, 2019, 25, 105-113.	0.1	0
3443	Improving resolution images detail features for Generate Network. , 2019, , .		0
3445	Super-Resolution Reconstruction of Fine-Grained Fittings Image of Transmission Line Based on Compressed Sensing. Lecture Notes in Electrical Engineering, 2020, , 977-986.	0.3	0
3447	Single Frame Image Super Resolution Using ANFIS Interpolation: An Initial Experiment-Based Approach. Advances in Intelligent Systems and Computing, 2020, , 27-40.	0.5	2
3449	An inquiry on image enhancement methods of remote sensing images. , 2019, , .		0
3450	A NR-IQA based deep neural network for tone mapping HDR images. , 2019, , .		0
3452	Restoration of turbulence-degraded images based on deep convolutional network. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
3453	Convolution Neural Networks for Blind Image Steganalysis: A Comprehensive Study. Journal of Al-Qadisiyah for Computer Science and Mathematics, 2019, 11, 53-64.	0.2	0
3454	Image Super-Resolution and Deblurring Using Generative Adversarial Network. , 2019, , .		3
3455	Advanced Generative Adversarial Network Based on Dense Connection For Single Image Super Resolution. , 2019, , .		0
3456	Guided Super-Resolution Restoration of Single Image Based on Image Quality Evaluation Network. , 2019, , .		0
3457	A Multi-scale Wavelet CNN for Scanning Electron Microscopy Nerve Image Super Resolution. , 2019, , .		0
3458	Intrusion Detection Using Convolutional Recurrent Neural Network. , 2019, , .		3
3459	Super-resolution for remote sensing images via dual-domain network learning. Journal of Electronic Imaging, 2019, 28, 1.	0.5	0
3460	Medical Image Enhancement Using Deep Learning. Intelligent Systems Reference Library, 2020, , 53-76.	1.0	1
3461	Deep-learning for super-resolution full-waveform lidar. , 2019, , .		6
3462	Speckle noise reduction in digital holograms based on Spectral Convolutional Neural Networks (SCNN). , 2019, , .		2
3463	CNNs in the frequency domain for image super-resolution. , 2019, , .		1
3464	Image Super Resolution Based on Fully Convolutional Multi-path Model with Adaptive Skip Connection. , 2019, , .		1
3465	Effective Utilization of Hybrid Residual Modules in Deep Neural Networks for Super Resolution. Lecture Notes in Computer Science, 2020, , 745-750.	1.0	0
3467	Video Super-Resolution Using Wave-Shape Network. , 2019, , .		0
3468	Food Photo Enhancer of One Sample Generative Adversarial Network. , 2019, , .		1
3469	An Ensemble of Learning Machine Models for Plant Recognition. Communications in Computer and Information Science, 2020, , 256-262.	0.4	1
3470	Interactive Multi-dimension Modulation with Dynamic Controllable Residual Learning for Image Restoration. Lecture Notes in Computer Science, 2020, , 53-68.	1.0	17
3472	A Survey of Image Super Resolution Based on CNN. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 184-199.	0.2	0

#	ARTICLE	IF	CITATIONS
3473	Non-local Second-Order Attention Network for Single Image Super Resolution. Lecture Notes in Computer Science, 2020, , 267-279.	1.0	2
3474	Efficient and Phase-Aware Video Super-Resolution for Cardiac MRI. Lecture Notes in Computer Science, 2020, , 66-76.	1.0	9
3475	Image Super-Resolution Network Based on Prior Information Fusion. Lecture Notes in Computer Science, 2020, , 51-61.	1.0	0
3476	Applying Holo360 Video and Image Super-Resolution Generative Adversarial Networks to Virtual Reality Immersion. Lecture Notes in Computer Science, 2020, , 569-584.	1.0	2
3477	Efficient Super-Resolution Using MobileNetV3. Lecture Notes in Computer Science, 2020, , 87-102.	1.0	8
3478	PyNET-CA: Enhanced PyNET with Channel Attention for End-to-End Mobile Image Signal Processing. Lecture Notes in Computer Science, 2020, , 202-212.	1.0	10
3479	Feature Representation Matters: End-to-End Learning for Reference-Based Image Super-Resolution. Lecture Notes in Computer Science, 2020, , 230-245.	1.0	19
3480	Multi-Angular Epipolar Geometry Based Light Field Angular Reconstruction Network. IEEE Transactions on Computational Imaging, 2020, 6, 1507-1522.	2.6	34
3482	Medical CT Image Super-Resolution via Cyclic Feature Concentration Network. Lecture Notes in Computer Science, 2020, , 3-13.	1.0	2
3483	Wavelet-Based Dual Recursive Network for Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 707-720.	7.2	24
3484	Satellite Image Target Super-Resolution With Adversarial Shape Discriminator. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
3486	Event Enhanced High-Quality Image Recovery. Lecture Notes in Computer Science, 2020, , 155-171.	1.0	38
3487	Remote Sensing Image Fusion Based on Multi-morphological Convolutional Neural Network. Lecture Notes in Computer Science, 2020, , 485-495.	1.0	0
3488	Quantized Warping and Residual Temporal Integration for Video Super-Resolution on Fast Motions. Lecture Notes in Computer Science, 2020, , 682-697.	1.0	0
3489	Rank-One Network: An Effective Framework for Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 3224-3238.	9.7	3
3490	Motion-less super-resolution under blind condition using sparse optimization. , 2020, , .		0
3491	Training the Image Classifier with and without Data Augmentation. International Journal of Scientific Research in Computer Science Engineering and Information Technology, 2020, , 172-178.	0.2	2
3492	A Deep Learning Approach for Face Hallucination Guided by Facial Boundary Responses. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-23.	3.0	2



#	ARTICLE	IF	CITATIONS
3493	Low Complexity Single Image Super-Resolution with Channel Splitting and Fusion Network. , 2020, , .		3
3494	High Dynamic Range Imaging Using Deep Image Priors. , 2020, , .		3
3495	Multi-Scale Downscaling with Bayesian Convolution Network for ENSO SST Pattern. , 2020, , .		2
3496	Study of GAN-based image reconstruction for diffractive optical systems. , 2020, , .		1
3497	Efficient Image Super Resolution Via Channel Discriminative Deep Neural Network Pruning. , 2020, , .		19
3498	ProDebNet: projector deblurring using a convolutional neural network. Optics Express, 2020, 28, 20391.	1.7	10
3499	Hyperspectral Reconstruction with Redundant Camera Spectral Sensitivity Functions. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-15.	3.0	1
3500	Super-Resolution with Multi-Path Convolutional Neural Networks. IEEJ Transactions on Electronics, Information and Systems, 2020, 140, 638-650.	0.1	1
3501	Deep Learning Achieves Super-resolution in Digital Holography. , 2020, , .		0
3502	Data-driven three-dimensional super-resolution imaging of a turbulent jet flame using a generative adversarial network. Applied Optics, 2020, 59, 5729.	0.9	15
3503	Digital Rock Core Images Super Resolution via SRCNN Based on Accelerated Bicubic Interpolation. , 2020, , .		1
3504	Super Resolution for Digital Rock Core Images via FSRCNN. , 2020, , .		1
3505	Image Super-Resolution Reconstruction Algorithm Based on Improved GAN. , 2020, , .		0
3506	A New Convolutional Neural Network for Super-Resolution by Global and Local Residual. , 2020, , .		0
3507	Single-Image Super-Resolution Analysis in DCT Spectral Domain. Balkan Journal of Electrical and Computer Engineering, 2020, 8, 209-217.	0.4	3
3508	Improvement of Luminance Isotropy for Convolutional Neural Networks-Based Image Super-Resolution. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 955-958.	0.2	1
3509	Digital Rock Core Image Super-Resolution via Deep Convolutional Neural Networks. , 2020, , .		0
3510	Combined Single and Multi-frame Image Super-resolution. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
3511	Traditional food knowledge of Indonesia: a new high-quality food dataset and automatic recognition system. <i>Journal of Big Data</i> , 2020, 7, .	6.9	5
3512	Improvement of Sensitivity in Total Reflection X-ray Fluorescence Spectrometry by Machine Learning. <i>Bunseki Kagaku</i> , 2020, 69, 463-470.	0.1	1
3513	Transformers in computational visual media: A survey. <i>Computational Visual Media</i> , 2022, 8, 33-62.	10.8	60
3514	Computer Vision in the Infrared Spectrum: Challenges and Approaches. <i>Synthesis Lectures on Computer Vision</i> , 2021, 10, 1-138.	0.4	2
3515	Resampling and super-resolution of hexagonally sampled images using deep learning. <i>Optical Engineering</i> , 2021, 60, .	0.5	1
3516	Deep Convolutional Neural Network for Compressive Sensing of Magnetic Resonance Images. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 0, , .	0.7	0
3517	Real-world super-resolution of face images from surveillance cameras. <i>IET Image Processing</i> , 2022, 16, 442-452.	1.4	15
3518	Underwater image super-resolution using SRCNN. , 2021, , .		1
3519	Lightweight deep network-enabled real-time low-visibility enhancement for promoting vessel detection in maritime video surveillance. <i>Journal of Navigation</i> , 2022, 75, 230-250.	1.0	32
3520	Recycling diagnostic MRI for empowering brain morphometric research – Critical & practical assessment on learning-based image super-resolution. <i>NeuroImage</i> , 2021, 245, 118687.	2.1	5
3521	Reference-based Image Super-Resolution by Dual-Variational AutoEncoder. , 2021, , .		1
3522	Deep Learning 3D Sparse Inversion of Gravity Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022476.	1.4	26
3523	Face Hallucination Based on Degradation Analysis for Robust Manifold. <i>Neurocomputing</i> , 2021, 482, 116-116.	3.5	2
3525	Angle-Based Non-local Recurrent Network for Single Image Deraining. , 2020, , .		0
3526	Customizing Super-Resolution Framework According to Image Features. , 2020, , .		1
3527	Deep Neural Network-based Active Region Magnetogram Patch Super Resolution. , 2020, , .		0
3528	Multi-level Feature Fusion Network for Single Image Super-Resolution. , 2020, , .		1
3529	A Review of Artificial Intelligence Applications in Bacterial Genomics. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
3530	Ensemble CNN in Transform Domains for Image Super-resolution from Small Data Sets. , 2020, , .		2
3531	LPI Radar Signal Enhancement Based on Generative Adversarial Networks under Small Samples. , 2020, , .		1
3532	An efficient multi-scaled super resolution framework for image enhancement. , 2020, , .		0
3533	Edge-guided single facial depth map super-resolution using CNN. IET Image Processing, 2020, 14, 4708-4716.	1.4	4
3534	Pyramid Fusion Convolutional Network for Image Super-Resolution. , 2020, , .		0
3535	Solar Line-of-Sight Magnetograms Super-Resolution Using Deep Neural Networks. , 2020, , .		0
3536	A Comparative Analysis of Deep Learning based Approaches for Low-Light Image Enhancement. , 2020, , .		2
3537	Deep Residual Fusion Network for Single Image Super-Resolution. Journal of Physics: Conference Series, 2020, 1693, 012164.	0.3	0
3538	A low-complexity learning-based algorithm for joint application of demosaicking and up-scaling. , 2020, , .		1
3539	Video Quality Enhancement Using Deep Learning-Based Prediction Models for Quantized DCT Coefficients in MPEG I-frames. , 2020, , .		2
3540	LIFADER: Light Face Detection and Recognition approach for people tracking. , 2020, , .		0
3542	Smart Non-intrusive Device Recognition Based on Deep Learning Methods. , 2021, , 229-258.		2
3543	Super-resolution Generative Adversarial Networks Based on Attention Model. , 2020, , .		1
3544	Applications of Reinforcement Learning to Image Enhancement: A Survey. , 2020, , .		2
3545	Single depth map super-resolution via a deep feedback network. International Journal of Wavelets, Multiresolution and Information Processing, 2021, 19, 2050072.	0.9	1
3546	Super-Resolution Reconstruction of Human Face Image Based on Network of Residual Dense Connection Channel Attentional. , 2020, , .		0
3547	SDNet: A Novel Separable Structure for Single Image Deraining. Journal of Physics: Conference Series, 2020, 1693, 012141.	0.3	0
3548	An Improved Convolutional Neural Network and Its Applications to Image Super Resolution. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
3549	An Efficient Super-Resolution Single Image Network using Sharpness Loss Metrics for Iris. , 2020, , .		1
3550	Feature Fusion Based on Sparse Block for Image Super-resolution. , 2020, , .		0
3551	Advances in Convolutional Neural Networks. , 0, , .		3
3552	BSR: A Balanced Framework For Single Image Super Resolution. , 2020, , .		0
3553	Improving Compression Artifact Reduction via End-to-End Learning of Side Information. , 2020, , .		4
3554	Using Deep Learning Technique for Recovering the Lost Measurement Data. Lecture Notes in Civil Engineering, 2021, , 229-237.	0.3	2
3555	Deep Group-Wise Angular Translation of Cardiac Diffusion MRI in q-space via Manifold Regularized GAN. , 2020, , .		0
3556	Remote-sensing image super-resolution using classifier-based generative adversarial networks. Journal of Applied Remote Sensing, 2020, 14, .	0.6	3
3557	Generative adversarial image super-resolution network for multiple degradations. IET Image Processing, 2020, 14, 4520-4527.	1.4	6
3558	Multi-scale residual network for seismic data denoising and reconstruction. , 2020, , .		2
3559	Super Resolution for Remote Sensing Images via Improved Residual Network. , 2020, , .		0
3560	DeepInterpolation: fusion of multiple interpolations and CNN to obtain super-resolution. IET Image Processing, 2020, 14, 4000-4011.	1.4	5
3561	Iterative PET image reconstruction using cascaded data consistency generative adversarial network. IET Image Processing, 2020, 14, 3989-3999.	1.4	3
3562	A Review on Deep Learning Super Resolution Techniques. , 2020, , .		4
3563	UNet-ESPC-Cascaded Super-Resolution Reconstruction in Spectral CT. , 2020, , .		2
3564	Side-Scan Sonar Imaging: Real-Time Acoustic Streaming. IFAC-PapersOnLine, 2021, 54, 458-463.	0.5	0
3565	Single image rain removal using recurrent scale-guide networks. Neurocomputing, 2022, 467, 242-255.	3.5	11
3566	Pansharpening approach via two-stream detail injection based on relativistic generative adversarial networks. Expert Systems With Applications, 2022, 188, 115996.	4.4	14

#	ARTICLE	IF	CITATIONS
3567	A theoretical and practical survey of image fusion methods for multispectral pansharpening. Information Fusion, 2022, 79, 1-43.	11.7	31
3568	Real-world single image super-resolution: A brief review. Information Fusion, 2022, 79, 124-145.	11.7	133
3569	Deep Neural Network-based Enhancement for Image and Video Streaming Systems: A Survey and Future Directions. ACM Computing Surveys, 2022, 54, 1-30.	16.1	10
3571	A Study of Super Resolution Algorithm Basing on Generative Adversarial Network. Computer Science and Application, 2020, 10, 1908-1920.	0.0	0
3573	Transformation Consistency Regularization – A Semi-supervised Paradigm for Image-to-Image Translation. Lecture Notes in Computer Science, 2020, , 599-615.	1.0	13
3574	URIE: Universal Image Enhancement for Visual Recognition in the Wild. Lecture Notes in Computer Science, 2020, , 749-765.	1.0	20
3575	Remote Sensing Image Super-Resolution via Saliency-Guided Feedback GANs. IEEE Transactions on Geoscience and Remote Sensing, 2020, , 1-16.	2.7	22
3576	A Hybrid Modeling Method Based on Neural Networks and Its Application to Microwave Filter Tuning. IFAC-PapersOnLine, 2020, 53, 176-181.	0.5	3
3577	Hyperspectral Image Super-Resolution Based on Multiscale Mixed Attention Network Fusion. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	7
3578	Point2Wave: 3-D Point Cloud to Waveform Translation Using a Conditional Generative Adversarial Network With Dual Discriminators. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11630-11642.	2.3	1
3579	From Deep Image Decomposition to Single Depth Image Super-Resolution. Communications in Computer and Information Science, 2021, , 23-34.	0.4	0
3580	An Energy-Efficient Edge Computing Paradigm for Convolution-Based Image Upsampling. IEEE Access, 2021, 9, 147967-147984.	2.6	3
3581	MobiSR. , 2019, , .		47
3582	Stacked lossless deconvolutional network for remote sensing image super-resolution. , 2019, , .		1
3583	VarSR: Variational Super-Resolution Network for Very Low Resolution Images. Lecture Notes in Computer Science, 2020, , 431-447.	1.0	8
3584	Fine-Grained Urban Flow Prediction via a Spatio-Temporal Super-Resolution Scheme. Lecture Notes in Computer Science, 2020, , 360-375.	1.0	3
3585	Enhanced Attention-based Back Projection Network for Image Super-Resolution in Sensor Network. IEEE Sensors Journal, 2020, , 1-1.	2.4	1
3586	Single image super-resolution using deep hierarchical attention network. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
3587	Object Retrieval from Low Resolution Images. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2020, 74, 588-596.	0.0	0
3588	Dynamic Motion Estimation and Evolution Video Prediction Network. IEEE Transactions on Multimedia, 2021, 23, 3986-3998.	5.2	8
3589	Research on Image Super-Resolution Reconstruction Based on Generative Countermeasure Network. Communications in Computer and Information Science, 2020, , 46-62.	0.4	2
3590	Zero-Shot Image Super-Resolution with Depth Guided Internal Degradation Learning. Lecture Notes in Computer Science, 2020, , 265-280.	1.0	23
3591	Deep Learning Structured Illumination Microscopy. , 2020, , .		0
3593	Deep Adaptive Inference Networks for Single Image Super-Resolution. Lecture Notes in Computer Science, 2020, , 131-148.	1.0	13
3594	A Slimmer and Deeper Approach to Network Structures for Image Denoising and Dehazing. Lecture Notes in Computer Science, 2020, , 268-279.	1.0	3
3595	PIPAL: A Large-Scale Image Quality Assessment Dataset for Perceptual Image Restoration. Lecture Notes in Computer Science, 2020, , 633-651.	1.0	38
3596	Hyperspectral Image Super-Resolution Using Multi-scale Feature Pyramid Network. Communications in Computer and Information Science, 2020, , 49-61.	0.4	0
3597	Hyperspectral“Multispectral Image Fusion Enhancement Based on Deep Learning. Advances in Computer Vision and Pattern Recognition, 2020, , 407-433.	0.9	0
3598	AIM 2020 Challenge on Video Extreme Super-Resolution: Methods and Results. Lecture Notes in Computer Science, 2020, , 57-81.	1.0	16
3599	Augmented Data Prediction Efficiency for Wireless Sensor Network Application by AI-ML Technology. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 330-348.	0.4	0
3600	Deep Coarse-to-Fine Dense Light Field Reconstruction With Flexible Sampling and Geometry-Aware Fusion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1819-1836.	9.7	42
3601	A 3D Shrinking-and-Expanding Module with Channel Attention for Efficient Deep Learning-Based Super-Resolution. Smart Innovation, Systems and Technologies, 2020, , 117-125.	0.5	0
3602	Perceptual Autoencoder for Compressive Sensing Image Reconstruction. Informatica, 2020, , 561-578.	1.5	3
3603	An Efficient Blurring-Reconstruction Model to Defend Against Adversarial Attacks. Lecture Notes in Computer Science, 2020, , 491-503.	1.0	0
3604	SAniHead: Sketching Animal-like 3D Character Heads Using a View-surface Collaborative Mesh Generative Network. IEEE Transactions on Visualization and Computer Graphics, 2020, PP, 1-1.	2.9	1
3605	An Image Super-Resolution Reconstruction Algorithm Combining Self-Attention and Gating Mechanism. Computer Science and Application, 2020, 10, 2323-2330.	0.0	0

#	ARTICLE	IF	CITATIONS
3606	NAS-DIP: Learning Deep Image Prior with Neural Architecture Search. Lecture Notes in Computer Science, 2020, , 442-459.	1.0	27
3608	Video Super-Resolution Reconstruction Based on Deep Learning and Spatio-Temporal Feature Self-Similarity. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4538-4553.	4.0	9
3609	Fully Trainable and Interpretable Non-local Sparse Models for Image Restoration. Lecture Notes in Computer Science, 2020, , 238-254.	1.0	15
3610	Super Resolution Approach Using Generative Adversarial Network Models for Improving Satellite Image Resolution. Communications in Computer and Information Science, 2020, , 291-298.	0.4	1
3611	Topology-Variant Synthesis. SpringerBriefs in Computer Science, 2020, , 53-94.	0.2	0
3612	Efficient Segmentation Using Gamma Correction with Complement Image of Chinese Rubbing Image. Lecture Notes in Computer Science, 2020, , 323-328.	1.0	0
3613	Super Resolution with Pseudorandom Pixel Placement and Its Assessment. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2020, 74, 893-895.	0.0	0
3614	Towards Content-Independent Multi-Reference Super-Resolution: Adaptive Pattern Matching and Feature Aggregation. Lecture Notes in Computer Science, 2020, , 52-68.	1.0	7
3615	Learning Disentangled Feature Representation for Hybrid-Distorted Image Restoration. Lecture Notes in Computer Science, 2020, , 313-329.	1.0	17
3616	Stacked lossless deconvolutional network for remote sensing image restoration. Journal of Applied Remote Sensing, 2020, 14, 1.	0.6	1
3617	Super-resolved image perceptual quality improvement via multifeature discriminators. Journal of Electronic Imaging, 2020, 29, 1.	0.5	3
3618	LAU-Net: Latitude Adaptive Upscaling Network for Omnidirectional Image Super-resolution. , 2021, , .		18
3619	MR Image Super-Resolution with Squeeze and Excitation Reasoning Attention Network. , 2021, , .		47
3620	Controllable Image Restoration for Under-Display Camera in Smartphones. , 2021, , .		12
3621	End-to-End Learning for Joint Image Demosaicing, Denoising and Super-Resolution. , 2021, , .		32
3622	SRWarp: Generalized Image Super-Resolution under Arbitrary Transformation. , 2021, , .		16
3623	Deep Convolutional Dictionary Learning for Image Denoising. , 2021, , .		51
3624	GLEAN: Generative Latent Bank for Large-Factor Image Super-Resolution. , 2021, , .		116

#	ARTICLE	IF	CITATIONS
3625	Image Super-Resolution with Non-Local Sparse Attention. , 2021, , .		220
3626	BasicVSR: The Search for Essential Components in Video Super-Resolution and Beyond. , 2021, , .		210
3627	Convolutional Neural Network Pruning with Structural Redundancy Reduction. , 2021, , .		96
3628	Debiased Subjective Assessment of Real-World Image Enhancement. , 2021, , .		4
3629	SIPSA-Net: Shift-Invariant Pan Sharpening with Moving Object Alignment for Satellite Imagery. , 2021, , .		19
3630	ClassSR: A General Framework to Accelerate Super-Resolution Networks by Data Characteristic. , 2021, , .		78
3631	Deep Burst Super-Resolution. , 2021, , .		64
3632	Temporal Modulation Network for Controllable Space-Time Video Super-Resolution. , 2021, , .		43
3633	Learning the Non-differentiable Optimization for Blind Super-Resolution. , 2021, , .		19
3634	Pre-Trained Image Processing Transformer. , 2021, , .		746
3635	Exploiting Aliasing for Manga Restoration. , 2021, , .		5
3636	Learning Continuous Image Representation with Local Implicit Image Function. , 2021, , .		229
3637	Interpreting Super-Resolution Networks with Local Attribution Maps. , 2021, , .		73
3638	Deep Gradient Projection Networks for Pan-sharpening. , 2021, , .		85
3639	Robust Reference-based Super-Resolution via $C^2$ -Matching. , 2021, , .		34
3640	A Novel Framework of CNN for Image Super-Resolution Based on Attention Module. , 2021, , .		0
3641	MASA-SR: Matching Acceleration and Spatial Adaptation for Reference-Based Image Super-Resolution. , 2021, , .		57
3642	PU-GCN: Point Cloud Upsampling using Graph Convolutional Networks. , 2021, , .		94



#	ARTICLE	IF	CITATIONS
3643	ECycleGAN. , 2020, , .		0
3644	Image SR-based NLM and DCNN improved IBP with cubic B-spline. Imaging Science Journal, 2020, 68, 129-140.	0.2	0
3646	Non-Global Shared Recursive Network for Image Super-Resolution. Journal of Physics: Conference Series, 2020, 1518, 012054.	0.3	0
3647	Restoration of Image using Discrete Wavelet Transform with Filtering Technique. , 2021, , .		0
3648	Single-image super-resolution via selective multi-scale network. Signal, Image and Video Processing, 2022, 16, 937-945.	1.7	1
3649	Blind Super-Resolution Network for Remote Sensing Image. , 2021, , .		0
3650	Deep learning for high-resolution estimation of clutter angle Doppler spectrum in STAP. IET Radar, Sonar and Navigation, 2022, 16, 193-207.	0.9	17
3651	Feature super-resolution based Facial Expression Recognition for multi-scale low-resolution images. Knowledge-Based Systems, 2022, 236, 107678.	4.0	20
3652	Adaptive optimal multi-features learning based representation for face hallucination. Expert Systems With Applications, 2022, 190, 116141.	4.4	2
3653	Reconstruction of Three-Dimensional Temperature and Salinity Fields From Satellite Observations. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017605.	1.0	18
3654	High-resolution photoacoustic microscopy with deep penetration through learning. Photoacoustics, 2022, 25, 100314.	4.4	19
3655	Striving to translate shale physics across ten orders of magnitude: What have we learned?. Earth-Science Reviews, 2021, 223, 103848.	4.0	21
3656	Predicting High-fidelity Human Body Models from Impaired Point Clouds. Signal Processing, 2021, 192, 108375.	2.1	4
3657	Multi-exposure image fusion via deep perceptual enhancement. Information Fusion, 2022, 79, 248-262.	11.7	32
3658	High-resolution brain fMRI reconstruction via double cooperative network learning. , 2020, , .		0
3659	Super-resolution of satellite imagery using a wavelet multiscale-based deep convolutional neural network model. , 2020, , .		6
3660	EG <sup>2</sup> N: enhanced gradient guiding network for single MR image super-resolution. , 2020, , .		1
3661	Crossline interpolation with the traces-to-trace approach using machine learning. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
3662	Derin A. Aytar, Imre S. Altun, and Mert B. Gökçe. Termal Yöntemlerle Görüntü Geri İnizleme. <i>Journal of Science and Technology</i> , 0, .	0.5	4
3663	Vehicle images reconstruction using SRCNN for improving the recognition accuracy of vehicle license plate number. <i>Jurnal Teknologi Dan Sistem Komputer</i> , 2020, 8, 304-310.	0.2	1
3664	Super-resolution image reconstruction using molecular docking. <i>IET Image Processing</i> , 2020, 14, 2922-2936.	1.4	3
3665	Weighted-encoding-based image interpolation with the nonlocal linear regression model. <i>Applied Optics</i> , 2020, 59, 8588.	0.9	1
3666	Single image super-resolution via Image Quality Assessment-Guided Deep Learning Network. <i>PLoS ONE</i> , 2020, 15, e0241313.	1.1	7
3667	When Bitstream Prior Meets Deep Prior. , 2020, , .		8
3668	Attention Cube Network for Image Restoration. , 2020, , .		9
3669	Light Field Super-resolution via Attention-Guided Fusion of Hybrid Lenses. , 2020, , .		19
3670	Video Super-Resolution using Multi-scale Pyramid 3D Convolutional Networks. , 2020, , .		9
3671	HiFaceGAN: Face Renovation via Collaborative Suppression and Replenishment. , 2020, , .		69
3672	FlareGAN: fewer iterations GAN for rapid synthesis controllable realistic images. <i>IET Image Processing</i> , 2020, 14, 3481-3489.	1.4	0
3673	A new dance generation task from start to end. <i>Journal of Physics: Conference Series</i> , 2020, 1651, 012130.	0.3	0
3674	A Super-Resolution Model for Improving the Precision of Wafer Mark Alignment. <i>Journal of Physics: Conference Series</i> , 2020, 1699, 012024.	0.3	1
3675	Motion Blur Super-Resolution Reconstruction Based on Accelerated Deep Network. , 2020, , .		0
3676	Cross-streamer wavefield reconstruction through wavelet domain learning. <i>Geophysics</i> , 2020, 85, V457-V471.	1.4	14
3677	Distorted underwater image reconstruction for an autonomous underwater vehicle based on a self-attention generative adversarial network. <i>Applied Optics</i> , 2020, 59, 10049.	0.9	14
3678	Super-Resolution Method of Face Image using Capsule Network. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2020, 140, 1270-1277.	0.1	0
3679	Spatial-temporal Ensemble Method for Action Recognition. <i>The Journal of Korea Robotics Society</i> , 2020, 15, 385-391.	0.2	2

#	ARTICLE	IF	CITATIONS
3680	Survey of Learning Based Single Image Super-Resolution Reconstruction Technology. Pattern Recognition and Image Analysis, 2020, 30, 567-577.	0.6	8
3681	Music Upscaling Using Convolutional Neural Networks. , 2020, , .		0
3683	Leukocyte super-resolution via geometry prior and structural consistency. Journal of Biomedical Optics, 2020, 25, .	1.4	0
3684	Learning Super-Resolution Reconstruction for High Temporal Resolution Spike Stream. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 16-29.	5.6	5
3685	Deep Learning Model-Aware Regularization With Applications to Inverse Problems. IEEE Transactions on Signal Processing, 2021, 69, 6371-6385.	3.2	6
3686	Real-World Thermal Image Super-Resolution. Lecture Notes in Computer Science, 2021, , 3-14.	1.0	0
3687	Optimization and regularization of complex task decomposition for blind removal of multi-factor degradation. Journal of Visual Communication and Image Representation, 2022, 82, 103384.	1.7	1
3688	ECSD-Net: A joint optic disc and cup segmentation and glaucoma classification network based on unsupervised domain adaptation. Computer Methods and Programs in Biomedicine, 2022, 213, 106530.	2.6	8
3689	Machine learning for combustion. Energy and AI, 2022, 7, 100128.	5.8	68
3690	Super-resolution method for MR images based on multi-resolution CNN. Biomedical Signal Processing and Control, 2022, 72, 103372.	3.5	4
3691	Dilated projection correction network based on autoencoder for hyperspectral image super-resolution. Neural Networks, 2022, 146, 107-119.	3.3	15
3692	Conditional Generative Adversarial Defogging Algorithm Based on Polarization Characteristics. , 2021, , .		1
3693	Text removal network based on comprehensive loss evaluation. , 2021, , .		0
3694	Image Super-Resolution Reconstruction Based on Improved Dense Residual Network. , 2021, , .		0
3695	Multi-Receptive-Fields Convolutional Network for Remote Sensing Images Super-Resolution. , 2021, , .		0
3696	Super-resolution algorithm combining SAE dictionary learning and anchored neighborhood regression. , 2021, , .		0
3698	Research of Enterprise Financial Management Capability System Based on EFA Method and Intelligent Data Clustering Model. , 2021, , .		1
3699	Simple and Efficient Unpaired Real-world Super-Resolution using Image Statistics. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
3700	Uydu Öğmelerine Derin Öğrenme Tabanlı Sıvı İletkenlik Yarı İntemlerinin Uygulanması. Afyon Kocatepe University Journal of Sciences and Engineering, 2021, 21, 1069-1077.	0.1	1
3701	Saliency-Guided Transformer Network combined with Local Embedding for No-Reference Image Quality Assessment. , 2021, , .		13
3702	Deep Learning-Aided Receiver Against Nonlinear Distortion of HPA in OFDM Systems. , 2021, , .		1
3703	Temporal Kernel Consistency for Blind Video Super-Resolution. , 2021, , .		1
3704	Unsupervised Generative Adversarial Networks with Cross-model Weight Transfer Mechanism for Image-to-image Translation. , 2021, , .		7
3705	Real-ESRGAN: Training Real-World Blind Super-Resolution with Pure Synthetic Data. , 2021, , .		340
3706	A Dense Encoder-Decoder Network with Feedback Connections for Pan-Sharpening. Remote Sensing, 2021, 13, 4505.	1.8	1
3707	MSG-GAN-SD: A Multi-Scale Gradients GAN for Statistical Downscaling of 2-Meter Temperature over the EURO-CORDEX Domain. AI, 2021, 2, 600-620.	2.1	3
3708	Y-Net: Dual-branch Joint Network for Semantic Segmentation. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-22.	3.0	3
3709	Application of the Machine Vision Technology and Infrared Thermography to the Detection of Hoof Diseases in Dairy Cows: A Review. Applied Sciences (Switzerland), 2021, 11, 11045.	1.3	4
3710	Wavelet Frequency Separation Attention Network for Chest X-ray Image Super-Resolution. Micromachines, 2021, 12, 1418.	1.4	6
3711	A Fast View Synthesis Implementation Method for Light Field Applications. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-20.	3.0	6
3712	Accelerating Monte Carlo simulation of light propagation in tissue mimicking turbid medium based on generative adversarial networks. Medical Physics, 2021, , .	1.6	4
3713	Recent advances of deep learning algorithms for aquacultural machine vision systems with emphasis on fish. Artificial Intelligence Review, 2022, 55, 4077-4116.	9.7	34
3714	3D reconstruction of porous media by combining scaling transformation and multi-scale discrimination using generative adversarial networks. Journal of Petroleum Science and Engineering, 2022, 209, 109815.	2.1	9
3715	Nanophotonics-enabled optical data storage in the age of machine learning. APL Photonics, 2021, 6, .	3.0	11
3717	Noise-residue learning convolutional network model for magnetic resonance image enhancement. Journal of Physics: Conference Series, 2021, 2089, 012029.	0.3	1
3718	Perceptual Fusion of Electronic Chart and Marine Radar Image. Journal of Marine Science and Engineering, 2021, 9, 1245.	1.2	2

#	ARTICLE	IF	CITATIONS
3719	Continuous digital zoom with cross attention for dual camera system. Multimedia Tools and Applications, 2022, 81, 2959-2977.	2.6	0
3720	Capsule GAN for prostate MRI super-resolution. Multimedia Tools and Applications, 2022, 81, 4119-4141.	2.6	10
3721	Deep coordinate attention network for single image super-resolution. IET Image Processing, 2022, 16, 273-284.	1.4	29
3722	Development of New Efficient Transposed Convolution Techniques for Flame Segmentation from UAV-captured Images. , 2021, , .		1
3723	Joint Bilateral-Resolution Identity Modeling for Cross-Resolution Person Re-Identification. International Journal of Computer Vision, 2022, 130, 136-156.	10.9	8
3724	Impact of deep learning-based image super-resolution on binary signal detection. Journal of Medical Imaging, 2021, 8, 065501.	0.8	11
3725	Single image super-resolution based on a modified U-net with mixed gradient loss. Signal, Image and Video Processing, 2022, 16, 1143-1151.	1.7	15
3726	Combining Image Processing and Artificial Intelligence for Dental Image Analysis: Trends, Challenges, and Applications. EAI/Springer Innovations in Communication and Computing, 2022, , 75-105.	0.9	2
3727	Unsupervised deep learning with higher-order total-variation regularization for multidimensional seismic data reconstruction. Geophysics, 2022, 87, V59-V73.	1.4	17
3728	Augmented global attention network for image super-resolution. IET Image Processing, 2022, 16, 567-575.	1.4	0
3729	Super-resolution of wide-field infrared and low light level images using convolutional networks. , 2021, , .		0
3730	A New Image Enhancement and Super Resolution technique for license plate recognition. Heliyon, 2021, 7, e08341.	1.4	13
3731	DSTnet: Deformable Spatio-Temporal Convolutional Residual Network for Video Super-Resolution. Mathematics, 2021, 9, 2873.	1.1	0
3732	CNN-Based Spectral Super-Resolution of Panchromatic Night-Time Light Imagery: City-Size-Associated Neighborhood Effects. Sensors, 2021, 21, 7662.	2.1	2
3733	Memory-Efficient Hierarchical Neural Architecture Search for Image Restoration. International Journal of Computer Vision, 2022, 130, 157-178.	10.9	6
3734	Image quality enhancement using hybrid attention networks. IET Image Processing, 2022, 16, 521-534.	1.4	3
3735	Comprehensive Modeling of Neonatal Brain Image Generation for Disorder Development Onset Prediction Based on Generative Adversarial Networks. , 2022, , 269-273.		1
3736	Pansharpener via Super-Resolution Iterative Residual Network With a Cross-Scale Learning Strategy. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	3

#	ARTICLE	IF	CITATIONS
3737	Attention_FPNNet: Two-Branch Remote Sensing Image Pansharpening Network Based on Attention Feature Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11879-11891.	2.3	8
3738	Reduced-reference Perceptual Discrepancy Learning for Image Restoration Quality Assessment. Lecture Notes in Computer Science, 2021, , 359-370.	1.0	1
3739	Reversible Data Hiding By Using CNN Prediction and Adaptive Embedding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 10196-10208.	9.7	18
3741	Deep SR-HDR: Joint Learning of Super-Resolution and High Dynamic Range Imaging for Dynamic Scenes. IEEE Transactions on Multimedia, 2023, 25, 750-763.	5.2	5
3742	ArbRPN: A Bidirectional Recurrent Pansharpening Network for Multispectral Images With Arbitrary Numbers of Bands. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	7
3743	Codec-Simulation Network for Joint Optimization of Video Coding With Pre- and Post-Processing. IEEE Open Journal of Circuits and Systems, 2021, 2, 648-659.	1.4	3
3744	Deep Unfolding Network for Spatospectral Image Super-Resolution. IEEE Transactions on Computational Imaging, 2022, 8, 28-40.	2.6	20
3745	Infrared Image Super-Resolution via Heterogeneous Convolutional WGAN. Lecture Notes in Computer Science, 2021, , 461-472.	1.0	4
3746	FPNet: A Deep Light-Weight Interpretable Neural Network Using Forward Prediction Filtering for Efficient Single Image Super Resolution. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1937-1941.	2.2	2
3747	Transformer-Based Multistage Enhancement for Remote Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	33
3748	Edge Guided Attention Based Densely Connected Network for Single Image Super-Resolution. Lecture Notes in Computer Science, 2021, , 632-643.	1.0	1
3749	Gradient-Guided Isotropic MRI Reconstruction From Anisotropic Acquisitions. IEEE Transactions on Computational Imaging, 2021, 7, 1240-1253.	2.6	2
3750	Interactive Multi-Dimension Modulation for Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9363-9379.	9.7	3
3751	Model and Transfer Spatial-Temporal Knowledge for Fine-Grained Radio Map Reconstruction. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 828-841.	4.9	4
3752	A Two-Stage Convolutional Neural Network for Joint Demosaicking and Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4238-4254.	5.6	11
3753	Gluing Reference Patches Together for Face Super-Resolution. IEEE Access, 2021, 9, 169321-169334.	2.6	3
3754	360° Image Reference-Based Super-Resolution Using Latitude-Aware Convolution Learned From Synthetic to Real. IEEE Access, 2021, 9, 155924-155935.	2.6	6
3756	A Fast General Image Encryption Method Based on Deep Learning Compressed Sensing and Compound Chaotic System. Communications in Computer and Information Science, 2021, , 153-169.	0.4	0

#	ARTICLE	IF	CITATIONS
3757	Image Compressed Sensing Using Residual Enhanced Network. SSRN Electronic Journal, 0, , .	0.4	0
3758	CNN-Based Hyperspectral Pansharpening With Arbitrary Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-21.	2.7	13
3759	NL-CALIC Soft Decoding Using Strict Constrained Wide-activated Recurrent Residual Network. IEEE Transactions on Image Processing, 2021, PP, 1-1.	6.0	0
3760	Dense Dual-Attention Network for Light Field Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4431-4443.	5.6	18
3761	SRNMSM: A Deep Light-Weight Image Super Resolution Network Using Multi-Scale Spatial and Morphological Feature Generating Residual Blocks. IEEE Transactions on Broadcasting, 2022, 68, 58-68.	2.5	7
3762	Low-Light Image and Video Enhancement Using Deep Learning: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 9396-9416.	9.7	151
3763	A Dynamic Residual Self-Attention Network for Lightweight Single Image Super-Resolution. IEEE Transactions on Multimedia, 2023, 25, 907-918.	5.2	32
3764	Deep Convolutional Neural Network with Deconvolution and a Deep Autoencoder for Fault Detection and Diagnosis. ACS Omega, 2022, 7, 2458-2466.	1.6	5
3765	Indian sign language alphabet recognition system using CNN with diffGrad optimizer and stochastic pooling. Multimedia Tools and Applications, 2023, 82, 9627-9648.	2.6	19
3766	LNMF: lightweight network for multi-focus image fusion. Multimedia Tools and Applications, 0, , 1.	2.6	1
3767	A Deep Separable Convolutional Neural Network for Multiscale Image-Based Smoke Detection. Fire Technology, 2022, 58, 1445-1468.	1.5	11
3768	Efficient Image Super-Resolution via Self-Calibrated Feature Fuse. Sensors, 2022, 22, 329.	2.1	5
3769	New Single Image Rain Removal Algorithm Based on Dual Parallel Branch Residual Overlay Network. Circuits, Systems, and Signal Processing, 0, , 1.	1.2	1
3770	ZeRGAN: Zero-Reference GAN for Fusion of Multispectral and Panchromatic Images. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8195-8209.	7.2	23
3771	Image Translation Method for Game Character Sprite Drawing. CMES - Computer Modeling in Engineering and Sciences, 2022, 130, 1-16.	0.8	0
3772	PRISMA Spatial Resolution Enhancement by Fusion With Sentinel-2 Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 62-79.	2.3	6
3773	SAR Image Despeckling Using Continuous Attention Module. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3-19.	2.3	20
3774	Stroke Based Painterly Rendering with Mass Data through Auto Warping Generation. CMES - Computer Modeling in Engineering and Sciences, 2022, 130, 1441-1457.	0.8	0



#	ARTICLE	IF	CITATIONS
3775	Effects of the deep learning-based super-resolution method on thermal image classification applications. <i>Multimedia Tools and Applications</i> , 2022, 81, 9313-9330.	2.6	5
3776	Deep-ASL enhancement technique in arterial spin labeling MRI – A novel approach for the error reduction of partial volume correction technique with linear regression algorithm. <i>Journal of Computational Science</i> , 2022, 58, 101546.	1.5	2
3777	Single infrared image stripe removal via deep multi-scale dense connection convolutional neural network. <i>Infrared Physics and Technology</i> , 2022, 121, 104008.	1.3	10
3778	Prediction of Ultrasonic Guided Wave Propagation in Fluid-Structure and Their Interface under Uncertainty Using Machine Learning. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	2
3779	Multi-scale reconstruction of porous media from low-resolution core images using conditional generative adversarial networks. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 99, 104411.	2.1	20
3780	Quick identification of prostate cancer by wavelet transform-based photoacoustic power spectrum analysis. <i>Photoacoustics</i> , 2022, 25, 100327.	4.4	8
3781	Super Resolution Generative Adversarial Network Based Image Augmentation for Scene Classification of Remote Sensing Images. , 2020, , .		3
3782	Inter-Sensor Remote Sensing Image Enhancement for Operational Sentinel-2 and Sentinel-3 Data Products. , 2020, , .		0
3783	A Novel Approach for Hyperspectral Image Superresolution Using Spectral Unmixing and Transfer Learning. , 2020, , .		4
3784	Single Image Super Resolution Using Discrete Cosine Transform Driven Regression Tree. , 2020, , .		0
3785	Convolutional Neural Network-based image retrieval with degraded sample. , 2020, , .		0
3786	PySRResNet: Super Resolution for Video Satellite Imagery via Pyramid Residual Network. , 2020, , .		1
3787	Super-Resolution Generative Adversarial Network with Modified Architecture for Single Image Super-Resolution. , 2020, , .		0
3788	Pan-Sharpening with a CNN-Based Two Stage Ratio Enhancement Method. , 2020, , .		2
3790	Deep Intra Fusion for Hyperspectral Image Super-Resolution. , 2020, , .		0
3791	Multi-Level Strategy-Based Spatial Information Prediction for Spatiotemporal Remote Sensing Imagery Fusion. , 2020, , .		0
3792	Siamese Generative Adversarial Network for Change Detection Under Different Scales. , 2020, , .		1
3793	DEM Extraction from Airborne Lidar Point Cloud in Thick-Forested Areas via Convolutional Neural Network. , 2020, , .		1



#	ARTICLE	IF	CITATIONS
3794	An Experimental Study on Hyper Parameters for Training Deep Convolutional Networks. , 2020, , .		2
3795	Searching For Desired Person Doing Desired Action based on Visual and Audio Feature in Large Scale Video Database. , 2020, , .		0
3796	Image coding based on Selective Super-Resolution Network. , 2020, , .		1
3797	Video-rate acquisition fluorescence microscopy via generative adversarial networks. , 2020, , .		2
3798	Single-Image Super-Resolution based on a Self-Attention Deep Neural Network. , 2020, , .		1
3799	A Review on Exploring the Deep Learning Concepts and Applications for Medical Diagnosis. SSRG International Journal of Engineering Trends and Technology, 2020, 68, 63-66.	0.3	3
3800	Hull Number Detection for Ship Images Based on Image Super-Resolution. , 2020, , .		1
3801	Endoscopic Image Deblurring and Super-Resolution Reconstruction Based on Deep Learning. , 2020, , .		4
3802	Efficient Face Super-Resolution Based on Separable Convolution Projection Networks. , 2020, , .		2
3803	Super-Resolution of Sea Surface Temperature Satellite Images. , 2020, , .		1
3804	Similarity Based Filter Pruning for Efficient Super-Resolution Models. , 2020, , .		2
3805	Bone Feature Segmentation in Ultrasound Spine Image with Robustness to Speckle and Regular Occlusion Noise. , 2020, , .		9
3806	Gradual Deep Residual Network for Remote Sensing Images Fusion. , 2020, , .		0
3807	Indoor Privacy-preserving Action Recognition via Partially Coupled Convolutional Neural Network. , 2020, , .		4
3808	Leukocyte super-resolution via geometry prior and structural consistency. Journal of Biomedical Optics, 2020, 25, .	1.4	1
3809	Native Resolution Detection for 4K-UHD Videos. , 2020, , .		1
3810	Image Super-Resolution Using Light-Weight Deep Learning Methods. , 2020, , .		0
3811	AMRConvNet: AMR-Coded Speech Enhancement Using Convolutional Neural Networks. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
3812	Model-Driven Channel Estimation for OFDM Systems Based on Image Super-Resolution Network. , 2020, , .		6
3813	Single Image Super-Resolution for Domain-Specific Ultra-Low Bandwidth Image Transmission. , 2020, , .		2
3814	Low-resolution image matching based on stacked sparse auto-encoder network and non-linear coupled metric. , 2020, , .		0
3815	Object Detection on Aerial Image by Using High-Resolutuion Network. , 2020, , .		0
3816	Single Image Super-Resolution Using Feedback Attention Networks. , 2020, , .		0
3817	SRGAN with Total Variation Loss in Face Super-Resolution. , 2020, , .		4
3818	Improving resolution of images using Generative Adversarial Networks. , 2020, , .		3
3819	Generative Adversarial Network with Residual Dense Generator for Remote Sensing Image Super Resolution. , 2020, , .		5
3820	Joint detection of smoke and flame in Photovoltaic System based on deep learning. , 2020, , .		0
3821	Automatic Quality Enhancement of Medical Diagnostic Scans with Deep Neural Image Super-Resolution Models. , 2020, , .		3
3822	Evolutionary Algorithm Based Residual Block Search for Compression Artifact Removal. , 2020, , .		0
3823	Attentive Inception Module based Convolutional Neural Network for Image Enhancement. , 2020, , .		1
3824	EQLRI: Enhance the Quality of Low Resolution Image using Neural Network. , 2020, , .		0
3825	LevelUp: A thin-cloud approach to game livestreaming. , 2020, , .		1
3826	Lightweight Progressive Residual Clique Network for Image Super-Resolution. , 2020, , .		0
3827	A Study on the Impact of Training Data in CNN-Based Super-Resolution for Low Bitrate End-to-End Video Coding. , 2020, , .		1
3828	A Dual-Branch Detail Extraction Network for Hyperspectral Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	26
3830	Zero-Shot Remote Sensing Image Super-Resolution Based on Image Continuity and Self Tessellations. Lecture Notes in Computer Science, 2021, , 649-662.	1.0	1

#	ARTICLE	IF	CITATIONS
3831	Face Restoration via Plug-and-Play 3D Facial Priors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 8910-8926.	9.7	9
3832	Cross-SRN: Structure-Preserving Super-Resolution Network With Cross Convolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4927-4939.	5.6	29
3833	Generative Adversarial Networks based method for Generating Photo-Realistic Super Resolution Images. , 2021, , .		2
3834	Object Detection in unmanned vehicle with End-to End Edge-Enhanced GAN and Object Detector Network. , 2021, , .		1
3835	A License Plate Super-resolution Algorithm based on Dictionary Learning and Neural Network. , 2021, , .		0
3836	End-to-End Generative Adversarial Face Hallucination Through Residual In Internal Dense Network. , 2021, , .		0
3837	A Light-Weight Compressed Video Processing Method on Embedded Platforms for IIoT. , 2021, , .		1
3838	Quality Enhancement of Color-Embedded- Grayscale Image Using Convolutional Neural Network. , 2021, , .		0
3839	Chest CT Image Super Resolution using Deep Learning Network Models. , 2021, , .		1
3840	Incorporating Ghost Module into RCAN for Super-Resolution of Satellite Images. , 2021, , .		1
3841	Dilated Residual Shrinkage Network for SAR Image Despeckling. , 2021, , .		2
3842	Fast Surface Topography Reconstruction Method for Profilometer Measurement based on Neural Continuous Representation. , 2021, , .		4
3843	Multiple GAN Inversion for Exemplar-based Image-to-Image Translation. , 2021, , .		2
3844	Enhancement of Anime Imaging Enlargement using Modified Super-Resolution CNN. , 2021, , .		0
3845	Decompression of Bluetooth-transmitted Audio using Super Resolution for Low-Latency Applications. , 2021, , .		0
3846	An Improved Image Super-Resolution Reconstruction Method Based On LapSRN. , 2021, , .		0
3847	Edge-enhanced Generative Adversarial Network for Reconstruction of Compressed Image. , 2021, , .		0
3848	Face Image Super Resolution using a Generative Adversarial Network. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
3849	Text Image Super Resolution Using Deep Attention Neural Network. , 2021, , .		0
3850	Dynamic Image Super-resolution Network Based on Semantic Prior. , 2021, , .		0
3851	Deep Convolutional Neural Network to Handle Saturation in Image Deblurring. , 2021, , .		1
3852	A Lightweight Convolutional Neural Network for Camera ISP. , 2021, , .		1
3853	An Improved Image Super-Resolution Reconstruction Method Based On LapSRN. , 2021, , .		0
3854	A Real-time Super-Resolution for Surveillance Thermal Cameras using optimized pipeline on Embedded Edge Device. , 2021, , .		1
3855	GPU-Accelerated Adaptive Dictionary Learning and Sparse Representations for Multispectral Image Super-resolution. , 2021, , .		3
3856	Progressive Residual Learning With Memory Upgrade for Ultrasound Image Blind Super-Resolution. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4390-4401.	3.9	1
3857	TR-MISR: Multiimage Super-Resolution Based on Feature Fusion With Transformers. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1373-1388.	2.3	22
3858	Image Stripe Noise Removal Based on Compressed Sensing. International Journal of Pattern Recognition and Artificial Intelligence, 2022, 36, .	0.7	2
3860	A Light Model for Super-Resolution of Remote Sensing Images. Journal of Physics: Conference Series, 2022, 2171, 012029.	0.3	0
3861	Designing Novel AAD Pooling in Hardware for a Convolutional Neural Network Accelerator. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 303-314.	2.1	23
3862	DFAN: Dual Feature Aggregation Network for Lightweight Image Super-Resolution. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	0.8	3
3863	Three-dimensional self super-resolution for pelvic floor MRI using a convolutional neural network with multi-orientation data training. Medical Physics, 2022, 49, 1083-1096.	1.6	0
3864	Learning Super-Resolution of Environment Matting of Transparent Objects From a Single Image. IEEE Access, 2022, 10, 3548-3558.	2.6	3
3865	Cost-Optimized Video Transfer using Real-Time Super Resolution Convolutional Neural Networks. , 2022, , .		2
3866	Using Physics-Informed Generative Adversarial Networks to Perform Super-Resolution for Multiphase Fluid Simulations. Journal of Computing and Information Science in Engineering, 2022, 22, .	1.7	10
3867	A Pseudo-Siamese Deep Convolutional Neural Network for Spatiotemporal Satellite Image Fusion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1205-1220.	2.3	9

#	ARTICLE	IF	CITATIONS
3868	High Dynamic Range Imaging for Dynamic Scenes With Large-Scale Motions and Severe Saturation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	2.4	8
3869	MFFNet: Single facial depth map refinement using multi-level feature fusion. Signal Processing: Image Communication, 2022, 103, 116649.	1.8	4
3870	In situ particles deposition imaging in centrifugal fields by implemented SPH-DEM-ANN into linear sensor-type wireless electrical resistance tomography (IsWERT). Powder Technology, 2022, 398, 117140.	2.1	5
3871	Enhanced Standard Compatible Image Compression Framework Based on Auxiliary Codec Networks. IEEE Transactions on Image Processing, 2022, 31, 664-677.	6.0	6
3872	Foreground Information-Aware Image Superresolution Reconstruction for Image Processing IoT Systems in Smart City. Wireless Communications and Mobile Computing, 2022, 2022, 1-12.	0.8	1
3873	Comparison of DEM Super-Resolution Methods Based on Interpolation and Neural Networks. Sensors, 2022, 22, 745.	2.1	17
3874	Image matching based on a structured deep coupled metric learning framework. Signal, Image and Video Processing, 0, , 1.	1.7	0
3876	JSENet: A deep convolutional neural network for joint image super-resolution and enhancement. Neurocomputing, 2022, 489, 570-583.	3.5	2
3877	CLDASSD: Reconstructing Fine Textures of the Temperature Field Using Super-Resolution Technology. Advances in Atmospheric Sciences, 2022, 39, 117-130.	1.9	12
3878	Gradient Enhanced Dual Regression Network: Perception-Preserving Super-Resolution for Multi-Sensor Remote Sensing Imagery. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
3880	Deep plug-and-play and deep unfolding methods for image restoration. , 2022, , 481-509.		0
3881	Deep robust residual network for super-resolution of 2D fetal brain MRI. Scientific Reports, 2022, 12, 406.	1.6	7
3882	Blind Image Restoration Based on Cycle-Consistent Network. IEEE Transactions on Multimedia, 2023, 25, 1111-1124.	5.2	6
3883	Deep Learning-Based Perceptual Video Quality Enhancement for 3D Synthesized View. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5080-5094.	5.6	8
3884	Flexible Style Image Super-Resolution Using Conditional Objective. IEEE Access, 2022, 10, 9774-9792.	2.6	2
3885	Geometry of Deep Neural Networks. Mathematics in Industry, 2022, , 195-226.	0.1	1
3886	CODON: On Orchestrating Cross-Domain Attentions for Depth Super-Resolution. International Journal of Computer Vision, 2022, 130, 267-284.	10.9	6
3887	Performance enhancement of a scanning electron microscope using a deep convolutional neural network. Measurement Science and Technology, 2022, 33, 065403.	1.4	0

#	ARTICLE	IF	CITATIONS
3888	Remote Sensing Pansharpening by Full-Depth Feature Fusion. Remote Sensing, 2022, 14, 466.	1.8	7
3889	Termal YÄ¼z GÄ¼rÄ¼ntÄ¼lerinden OluÄ¼yan Yeni Bir Veri Seti iÄ¼sin Derin Ä¼renme Tabanlı SÄ¼per Ä¼zÄ¼rlÄ¼k UygulamasÄ¼. Journal of Polytechnic, 2023, 26, 711-720.	0.4	2
3890	Underwater LiDAR Image Enhancement Using a GAN Based Machine Learning Technique. IEEE Sensors Journal, 2022, 22, 4438-4451.	2.4	8
3891	Edge-enhanced dual discriminator generative adversarial network for fast MRI with parallel imaging using multi-view information. Applied Intelligence, 2022, 52, 14693-14710.	3.3	6
3892	Prior embedding multi-degradations super resolution network. Neurocomputing, 2022, 489, 534-546.	3.5	1
3893	Classification of cervical cells leveraging simultaneous super-resolution and ordinal regression. Applied Soft Computing Journal, 2022, 115, 108208.	4.1	7
3894	Fruit Image Classification Using Deep Learning. Computers, Materials and Continua, 2022, 71, 5135-5150.	1.5	36
3895	Deep representation learning for face hallucination. Multimedia Tools and Applications, 2022, 81, 6305.	2.6	0
3896	A Feature-Enriched Deep Convolutional Neural Network for JPEG Image Compression Artifacts Reduction and its Applications. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 430-444.	7.2	11
3897	Pedestrian Detection Using Stationary Wavelet Dilated Residual Super-Resolution. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	16
3898	Multiscale Recursive Feedback Network for Image Super-Resolution. IEEE Access, 2022, 10, 6393-6406.	2.6	12
3899	Synthesis of pseudo-CT images from pelvic MRI images based on an MD-CycleGAN model for radiotherapy. Physics in Medicine and Biology, 2022, 67, 035006.	1.6	10
3900	Geometry-Aware Deep Video Deblurring via Recurrent Feature Refinement. IEEE Transactions on Image Processing, 2022, 31, 1176-1189.	6.0	0
3901	Hyperspectral Image Reconstruction Using Multi-scale Fusion Learning. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-21.	3.0	2
3902	Reference-Based Deep Line Art Video Colorization. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 2965-2979.	2.9	6
3903	Deep learning for lensless imaging. Journal of the Korean Physical Society, 2022, 81, 570-579.	0.3	3
3904	Multi-level spatial details cross-extraction and injection network for hyperspectral pansharpening. Optics Letters, 2022, 47, 1371.	1.7	3
3905	Plug-and-Play video super-resolution using edge-preserving filtering. Computer Vision and Image Understanding, 2022, 216, 103359.	3.0	4

#	ARTICLE	IF	CITATIONS
3906	FastSurferVINN: Building resolution-independence into deep learning segmentation methodsâ€”A solution for HighRes brain MRI. <i>NeuroImage</i> , 2022, 251, 118933.	2.1	20
3907	Digital transformation of thermal and cold spray processes with emphasis on machine learning. <i>Surface and Coatings Technology</i> , 2022, 433, 128138.	2.2	17
3908	Lightweight hierarchical residual feature fusion network for single-image super-resolution. <i>Neurocomputing</i> , 2022, 478, 104-123.	3.5	17
3909	SRDiff: Single image super-resolution with diffusion probabilistic models. <i>Neurocomputing</i> , 2022, 479, 47-59.	3.5	114
3910	Data-driven assessment of room air conditioner efficiency for saving energy. <i>Journal of Cleaner Production</i> , 2022, 338, 130615.	4.6	6
3911	A generative adversarial network with joint multistream architecture and spectral compensation for pansharpening. <i>Applied Soft Computing Journal</i> , 2022, 117, 108451.	4.1	0
3912	A two-stage deep generative adversarial quality enhancement network for real-world 3D CT images. <i>Expert Systems With Applications</i> , 2022, 193, 116440.	4.4	6
3913	An Optimization of Image Super-Resolution Method Based on Residual Network. <i>Journal of Physics: Conference Series</i> , 2022, 2181, 012027.	0.3	0
3914	Solving Inverse Problems With Deep Neural Networks â€” Robustness Included?. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2023, 45, 1119-1134.	9.7	33
3915	Maritime Infrared Image Super-Resolution Using Cascaded Residual Network and Novel Evaluation Metric. <i>IEEE Access</i> , 2022, 10, 17760-17767.	2.6	3
3916	Langevin Cooling for Unsupervised Domain Translation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022, PP, 1-14.	7.2	0
3917	Convolution neural network with edge structure loss for spatiotemporal remote sensing image fusion. <i>International Journal of Remote Sensing</i> , 2022, 43, 1015-1036.	1.3	6
3918	On Measuring and Controlling the Spectral Bias of the Deep Image Prior. <i>International Journal of Computer Vision</i> , 2022, 130, 885-908.	10.9	15
3919	An efficient and lightweight image super-resolution with feature supplement network. <i>Optik</i> , 2022, 255, 168648.	1.4	2
3920	A Spatial Downscaling Approach for WindSat Satellite Sea Surface Wind Based on Generative Adversarial Networks and Dual Learning Scheme. <i>Remote Sensing</i> , 2022, 14, 769.	1.8	3
3921	Video Satellite Imagery Super-Resolution via Model-Based Deep Neural Networks. <i>Remote Sensing</i> , 2022, 14, 749.	1.8	3
3922	Multilevel Feature Exploration Network for Image Superresolution. <i>Scientific Programming</i> , 2022, 2022, 1-9.	0.5	2
3923	Improving cyclone wind fields using deep convolutional neural networks and their application in extreme events. <i>Progress in Oceanography</i> , 2022, 202, 102763.	1.5	1

#	ARTICLE	IF	CITATIONS
3924	Remote Sensing Image Super-Resolution Based on Lorentz Fitting. Mobile Networks and Applications, 0, 1.	2.2	0
3925	Compensating Positron Range Effects of Ga-68 in Preclinical PET Imaging by Using Convolutional Neural Network: A Monte Carlo Simulation Study. Diagnostics, 2021, 11, 2275.	1.3	3
3926	A Robust Face Recognition Algorithm Based on an Improved Generative Confrontation Network. Applied Sciences (Switzerland), 2021, 11, 11588.	1.3	2
3927	Jointly Super Resolution and Degradation Learning on Unpaired Real-World Images. Lecture Notes in Computer Science, 2022, , 495-503.	1.0	0
3928	Optimization-Based Hyperspectral Spatiotemporal Super-Resolution. IEEE Access, 2022, 10, 37477-37494.	2.6	2
3929	Fusing Attention Network Based on Dilated Convolution for Superresolution. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 234-241.	2.6	5
3930	Lightweight Super-Resolution Network with Information Distillation and Recursive Methods. , 2022, , .		0
3931	Normalizing Flow as a Flexible Fidelity Objective for Photo-Realistic Super-resolution. , 2022, , .		4
3932	Deep Learning-Based Spatiotemporal Data Fusion Using a Patch-to-Pixel Mapping Strategy and Model Comparisons. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	2.7	9
3933	Residual Attention-Aided U-Net GAN and Multi-Instance Multilabel Classifier for Automatic Waveform Recognition of Overlapping LPI Radar Signals. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 4377-4395.	2.6	14
3934	Image Deep Learning Assisted Prediction of Mechanical and Corrosion Behavior for Al-Zn-Mg Alloys. IEEE Access, 2022, 10, 35620-35631.	2.6	4
3936	Image Restoration by Deep Projected GSURE. , 2022, , .		3
3937	Hyperspectral Image Super-Resolution with RGB Image Super-Resolution as an Auxiliary Task. , 2022, , .		10
3938	Multi-Dimensional Dynamic Model Compression for Efficient Image Super-Resolution. , 2022, , .		2
3939	Non-Blind Deblurring for Fluorescence: A Deformable Latent Space Approach with Kernel Parameterization. , 2022, , .		1
3940	Fine-grained Urban Flow Inference with Incomplete Data. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	2
3942	Towards Monocular Neural Facial Depth Estimation: Past, Present, and Future. IEEE Access, 2022, 10, 29589-29611.	2.6	2
3943	A Deep Learning Based Super Resolution DoA Estimator With Single Snapshot MIMO Radar Data. IEEE Transactions on Vehicular Technology, 2022, 71, 4142-4155.	3.9	15



#	ARTICLE	IF	CITATIONS
3944	Fine Perceptive GANs for Brain MR Image Super-Resolution in Wavelet Domain. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8802-8814.	7.2	76
3945	Fast and Lightweight Network for Single Frame Structured Illumination Microscopy Super-Resolution. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	5
3946	EXPLORATORY LAGRANGIAN-BASED PARTICLE TRACING USING DEEP LEARNING. Journal of Flow Visualization and Image Processing, 2022, 29, 73-96.	0.3	9
3947	Multi-Task Interaction Learning for Spatospectral Image Super-Resolution. IEEE Transactions on Image Processing, 2022, 31, 2950-2961.	6.0	6
3948	Pansharpening by Convolutional Neural Networks in the Full Resolution Framework. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	34
3949	Learning Detail-Structure Alternative Optimization for Blind Super-Resolution. IEEE Transactions on Multimedia, 2023, 25, 2825-2838.	5.2	3
3950	A Multilayered Adaptive Recurrent Incremental Network Model for Heterogeneity-Aware Prediction of Derived Remote Sensing Image Time Series. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	2
3951	Feature Balance for Fine-Grained Object Classification in Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5
3952	License Plate Image Analysis Empowered by Generative Adversarial Neural Networks (GANs). IEEE Access, 2022, 10, 30846-30857.	2.6	8
3953	Designing CNNs for Multimodal Image Restoration and Fusion via Unfolding the Method of Multipliers. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5830-5845.	5.6	2
3954	Lightweight Single Image Super-Resolution With Similar Feature Fusion Block. IEEE Access, 2022, 10, 30974-30981.	2.6	3
3955	Experimentally Proven Bilateral Blur onÂSRCNN forÂOptimal Convergence. Communications in Computer and Information Science, 2022, , 502-516.	0.4	2
3956	Current and future applications of artificial intelligence in multiple sclerosis. , 2022, , 107-144.		2
3957	Controlled GAN-Based Creature Synthesis via a Challenging Game Art Dataset - Addressing the Noise-Latent Trade-Off. , 2022, , .		0
3958	Semantic Point Cloud Upsampling. IEEE Transactions on Multimedia, 2023, 25, 3432-3442.	5.2	8
3959	Zero-Shot Ultrasound Nondestructive Testing Image Super-Resolution Based on Reflection Projection. Lecture Notes in Electrical Engineering, 2022, , 1287-1297.	0.3	1
3960	IVP: An Intelligent Video Processing Architecture for Video Streaming. IEEE Transactions on Computers, 2023, 72, 264-277.	2.4	4
3961	MS2Net: Multi-Scale and Multi-Stage Feature Fusion for Blurred Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5137-5150.	5.6	14

#	ARTICLE	IF	CITATIONS
3962	High-Resolution Urban Flows Forecasting With Coarse-Grained Spatiotemporal Data. IEEE Transactions on Artificial Intelligence, 2023, 4, 315-327.	3.4	5
3964	Super-resolution reconstruction of thermal imaging of power equipment based on Generative Adversarial Network with Channel Filtering. , 2022, , .		0
3965	MoESR: Blind Super-Resolution using Kernel-Aware Mixture of Experts. , 2022, , .		7
3966	Compressed Sensing MRI Reconstruction with Co-VeGAN: Complex-Valued Generative Adversarial Network. , 2022, , .		11
3967	Polarimetric SAR Despeckling With Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	6
3968	Similarity Weight Learning: A New Spatial and Temporal Satellite Image Fusion Framework. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	0
3970	LLP-GAN: A GAN-Based Algorithm for Learning From Label Proportions. IEEE Transactions on Neural Networks and Learning Systems, 2022, PP, 1-12.	7.2	0
3971	Bayesian Image Super-Resolution With Deep Modeling of Image Statistics. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1405-1423.	9.7	6
3973	Merging Super Resolution and Attribute Learning for Low-Resolution Person Attribute Recognition. IEEE Access, 2022, 10, 30436-30444.	2.6	1
3974	Implementation of Autoencoder for Super Resolution of 3D MRI Imaging using Convolution Neural Network. , 2022, , .		1
3975	A lightweight multi-scale residual network for single image super-resolution. Signal, Image and Video Processing, 2022, 16, 1793-1801.	1.7	1
3976	Computer Code Representation through Natural Language Processing for fMRI Data Analysis. , 2022, , .		1
3977	COMMA: Propagating Complementary Multi-Level Aggregation Network for Polyp Segmentation. Applied Sciences (Switzerland), 2022, 12, 2114.	1.3	1
3978	Deep learning in optical metrology: a review. Light: Science and Applications, 2022, 11, 39.	7.7	214
3979	Addressing image and Poisson noise deconvolution problem using deep learning approaches. Computational Intelligence, 2023, 39, 577-591.	2.1	11
3980	Single infrared image super-resolution based on lightweight multi-path feature fusion network. IET Image Processing, 0, , .	1.4	0
3981	Super Resolution for Noisy Images Using Convolutional Neural Networks. Mathematics, 2022, 10, 777.	1.1	1
3982	A Limited-View CT Reconstruction Framework Based on Hybrid Domains and Spatial Correlation. Sensors, 2022, 22, 1446.	2.1	0

#	ARTICLE	IF	CITATIONS
3983	Super-Resolving Ocean Dynamics from Space with Computer Vision Algorithms. Remote Sensing, 2022, 14, 1159.	1.8	11
3984	Underwater Image Enhancement Based on Histogram-Equalization Approximation Using Physics-Based Dichromatic Modeling. Sensors, 2022, 22, 2168.	2.1	6
3985	SSRNet: A CT Reconstruction Network Based on Sparse Connection and Weight Sharing for Parameters Reduction. Sensing and Imaging, 2022, 23, 1.	1.0	1
3986	4F optical neural network acceleration: an architecture perspective. , 2022, , .		10
3987	Fusing Landsat-7, Landsat-8 and Sentinel-2 surface reflectance to generate dense time series images with 10m spatial resolution. International Journal of Remote Sensing, 2022, 43, 1630-1654.	1.3	6
3988	Carbon price forecasting: a novel deep learning approach. Environmental Science and Pollution Research, 2022, 29, 54782-54795.	2.7	24
3989	Mixed Gaussian-Impulse noise robust face hallucination via noise suppressed low-and-high resolution space-based neighbor representation. Multimedia Tools and Applications, 2022, 81, 15997-16019.	2.6	11
3990	A Robust Multiframe Image Super-Resolution Method in Variational Bayesian Framework. Mathematical Problems in Engineering, 2022, 2022, 1-20.	0.6	0
3991	Spatial resolution improved fluorescence lifetime imaging via deep learning. Optics Express, 2022, 30, 11479.	1.7	7
3992	Facial Identity Verification Robust to Pose Variations and Low Image Resolution: Image Comparison Based on Anatomical Facial Landmarks. Electronics (Switzerland), 2022, 11, 1067.	1.8	2
3993	Deep learning-based image reconstruction and post-processing methods in positron emission tomography for low-dose imaging and resolution enhancement. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3098-3118.	3.3	22
3994	Online Learning for Reference-Based Super-Resolution. Electronics (Switzerland), 2022, 11, 1064.	1.8	1
3995	Bone and Soft Tissue Tumors. Radiologic Clinics of North America, 2022, 60, 339-358.	0.9	2
3996	Gradient-Guided and Multi-Scale Feature Network for Image Super-Resolution. Applied Sciences (Switzerland), 2022, 12, 2935.	1.3	6
3997	Retinal fundus image superresolution generated by optical coherence tomography based on a realistic mixed attention GAN. Medical Physics, 2022, 49, 3185-3198.	1.6	2
3998	From Regression Based on Dynamic Filter Network to Pansharpening by Pixel-Dependent Spatial-Detail Injection. Remote Sensing, 2022, 14, 1242.	1.8	0
3999	DOCSNet: a dual-output and cross-scale strategy for pan-sharpening. International Journal of Remote Sensing, 2022, 43, 1609-1629.	1.3	3
4000	Unsupervised Remote Sensing Image Super-Resolution Guided by Visible Images. Remote Sensing, 2022, 14, 1513.	1.8	6

#	ARTICLE	IF	CITATIONS
4001	Multi-level pooling encoderâ€“decoder convolution neural network for MRI reconstruction. PeerJ Computer Science, 2022, 8, e934.	2.7	1
4002	Research on super-resolution reconstruction of single-frame image of infrared focal plane polarization imaging. , 2022, , .		1
4003	Research on 3D MFL testing of wire rope based on empirical wavelet transform and SRCNN. Journal of Vibroengineering, 2022, 24, 779-792.	0.5	2
4004	Reconstructing high fidelity digital rock images using deep convolutional neural networks. Scientific Reports, 2022, 12, 4264.	1.6	13
4005	Training low dose CT denoising network without high quality reference data. Physics in Medicine and Biology, 2022, 67, 084002.	1.6	10
4006	Super-resolution of infrared image. , 2022, , .		0
4007	LineGAN: An image colourisation method combined with a line art network. IET Computer Vision, 2022, 16, 403-417.	1.3	0
4008	Asymmetric Dilation Residual Distillation Network with Lightweight Image Super-Resolution. Journal of Physics: Conference Series, 2022, 2216, 012069.	0.3	0
4009	Single MR image super-resolution via channel splitting and serial fusion network. Knowledge-Based Systems, 2022, 246, 108669.	4.0	6
4010	Asymmetric decoder design for efficient convolutional encoder-decoder architectures in medical image reconstruction. , 2022, , .		1
4011	A Conspectus of Deep Learning Techniques for Single-Image Super-Resolution. Pattern Recognition and Image Analysis, 2022, 32, 11-32.	0.6	3
4012	An adaptive regression based single-image super-resolution. Multimedia Tools and Applications, 2022, 81, 28231-28248.	2.6	1
4013	Closed-Loop Residual Attention Network for Single Image Super-Resolution. Electronics (Switzerland), 2022, 11, 1112.	1.8	1
4014	NDSRGAN: A Novel Dense Generative Adversarial Network for Real Aerial Imagery Super-Resolution Reconstruction. Remote Sensing, 2022, 14, 1574.	1.8	15
4015	A Novel Domain Transfer-Based Approach for Unsupervised Thermal Image Super-Resolution. Sensors, 2022, 22, 2254.	2.1	5
4016	Realistic Image Generation from Text by Using BERT-Based Embedding. Electronics (Switzerland), 2022, 11, 764.	1.8	3
4017	Photo-Realistic Continuous Image Super-Resolution with Implicit Neural Networks and Generative Adversarial Networks. Proceedings of the Northern Lights Deep Learning Workshop, 0, 3, .	0.0	1
4018	Lightweight Image Super-Resolution Based on Local Interaction of Multi-Scale Features and Global Fusion. Mathematics, 2022, 10, 1096.	1.1	3

#	ARTICLE	IF	CITATIONS
4019	Iterative up and downsampling residual networks for single image super-resolution. , 2022, , .		0
4020	Hierarchical edge-aware network for defocus blur detection. Complex & Intelligent Systems, 2022, 8, 4265-4276.	4.0	1
4021	Design of Deep Convolution Neural Networks for categorical signature classification of raw panchromatic satellite images. Multimedia Tools and Applications, 2022, 81, 28367-28404.	2.6	4
4022	A Framework for Super Resolution of Color Images with Missing Samples Using Low Rank Approximation. Sensing and Imaging, 2022, 23, 1.	1.0	0
4023	Perceptual adversarial non-residual learning for blind image denoising. Soft Computing, 2022, 26, 7933-7957.	2.1	1
4024	Defocus Blur detection via transformer encoder and edge guidance. Applied Intelligence, 2022, 52, 14426-14439.	3.3	3
4025	Improved Image Super-Resolution Using Frequency Channel Attention and Residual Dense Networks. Journal of Physics: Conference Series, 2022, 2216, 012074.	0.3	0
4026	SOUP-GAN: Super-Resolution MRI Using Generative Adversarial Networks. Tomography, 2022, 8, 905-919.	0.8	40
4027	Progressive spatiotemporal image fusion with deep neural networks. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102745.	1.4	2
4028	Traffic-Data Recovery Using Geometric-Algebra-Based Generative Adversarial Network. Sensors, 2022, 22, 2744.	2.1	1
4029	Space-time super-resolution for satellite video: A joint framework based on multi-scale spatial-temporal transformer. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102731.	1.4	37
4030	A high-capacity QRD-based blind color image watermarking algorithm incorporated with AI technologies. Expert Systems With Applications, 2022, 199, 117134.	4.4	17
4031	CT image quality enhancement via a dual-channel neural network with jointing denoising and super-resolution. Neurocomputing, 2022, 492, 343-352.	3.5	16
4032	Convolution Neural Network-Based Sensitive Security Parameter Identification and Analysis. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	0.8	1
4033	Disparity-constrained stereo endoscopic image super-resolution. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 867-875.	1.7	4
4034	Multi-scale receptive field fusion network for lightweight image super-resolution. Neurocomputing, 2022, 493, 314-326.	3.5	10
4035	Sparse-view CT spatial resolution enhancement via a densely connected convolutional neural network with spatial guidance. , 2022, , .		0
4036	Coarse-to-fine cascade framework for cross-modality super-resolution on clinical/micro CT dataset. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
4037	Multiscale Spatialâ€“Spectral Interaction Transformer for Pan-Sharpener. Remote Sensing, 2022, 14, 1736.	1.8	17
4038	SR-CycleGAN: super-resolution of clinical CT to micro-CT level with multi-modality super-resolution loss. Journal of Medical Imaging, 2022, 9, 024003.	0.8	2
4039	Superresolution reconstruction of optical remote sensing images based on a multiscale attention adversarial network. Applied Intelligence, 2022, 52, 17896-17911.	3.3	1
4040	Lightweight global-locally connected distillation network for single image super-resolution. Applied Intelligence, 2022, 52, 17797-17809.	3.3	2
4041	Full-Resolution Quality Assessment for Pansharpening. Remote Sensing, 2022, 14, 1808.	1.8	15
4042	Multi-fidelity and learning-regularization for single image super resolution. Journal of the Franklin Institute, 2022, 359, 4489-4512.	1.9	2
4043	A convolutional neural network based super resolution technique of CT image utilizing both sinogram domain and image domain data. , 2022, , .		1
4044	Tree-Like Branching Network for Single Image Super-Resolution with Divide-and-Conquer. Journal of Circuits, Systems and Computers, 2022, 31, .	1.0	1
4045	Dual Convolutional Neural Networks for Low-Level Vision. International Journal of Computer Vision, 2022, 130, 1440-1458.	10.9	22
4046	Transparent Object Reconstruction Based on Compressive Sensing and Super-Resolution Convolutional Neural Network. Photonic Sensors, 2022, 12, 1.	2.5	5
4047	Efficient 2D image Upscaling using Iterative Optimized Sharpening filtering. Displays, 2022, 74, 102196.	2.0	3
4048	Colorful 3D reconstruction at high resolution using multi-view representation. Journal of Visual Communication and Image Representation, 2022, 85, 103486.	1.7	7
4049	Dual U-Net residual networks for cardiac magnetic resonance images super-resolution. Computer Methods and Programs in Biomedicine, 2022, 218, 106707.	2.6	19
4050	An unsupervised reconstruction method for low-dose CT using deep generative regularization prior. Biomedical Signal Processing and Control, 2022, 75, 103598.	3.5	7
4051	Segmentation mask and feature similarity loss guided GAN for object-oriented image-to-image translation. Information Processing and Management, 2022, 59, 102926.	5.4	8
4052	Structure-aware Meta-fusion for Image Super-resolution. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-25.	3.0	9
4053	Autoencoding low-resolution MRI for semantically smooth interpolation of anisotropic MRI. Medical Image Analysis, 2022, 78, 102393.	7.0	5
4054	Multi-level deformation behavior monitoring of flexural structures via vision-based continuous boundary tracking: proof-of-concept study. Measurement: Journal of the International Measurement Confederation, 2022, 194, 111031.	2.5	9

#	ARTICLE	IF	CITATIONS
4055	A robust super-resolution reconstruction model of turbulent flow data based on deep learning. Computers and Fluids, 2022, 239, 105382.	1.3	5
4056	Video super-resolution with inverse recurrent net and hybrid local fusion. Neurocomputing, 2022, 489, 40-51.	3.5	4
4057	A novel image super-resolution algorithm based on multi-scale dense recursive fusion network. Neurocomputing, 2022, 489, 98-111.	3.5	16
4058	Discriminative information restoration and extraction for weakly supervised low-resolution fine-grained image recognition. Pattern Recognition, 2022, 127, 108629.	5.1	5
4059	Multi-level U-net network for image super-resolution reconstruction. Displays, 2022, 73, 102192.	2.0	15
4060	Power grid fault diagnosis using polar PMU data plots. International Journal of Electrical Power and Energy Systems, 2022, 141, 108148.	3.3	6
4061	Single Infrared Image Super-Resolution with Lightweight Self-corrected Attention Network. , 2021, , .		0
4062	Video Super Resolution Based on Motion Compensation. , 2021, , .		0
4063	The Classic Television Dramas Restoration Based on Super Resolution. , 2021, , .		0
4064	Equivariant Imaging: Learning Beyond the Range Space. , 2021, , .		17
4065	Fourier Space Losses for Efficient Perceptual Image Super-Resolution. , 2021, , .		55
4066	Unsupervised Real-World Super-Resolution: A Domain Adaptation Perspective. , 2021, , .		23
4067	Convolutional Neural Network-driven Optimal Prediction for Image Reversible Data Hiding. , 2021, , .		1
4068	Lucas-Kanade Reloaded: End-to-End Super-Resolution from Raw Image Bursts. , 2021, , .		11
4069	Omniscient Video Super-Resolution. , 2021, , .		40
4070	ReconfigISP: Reconfigurable Camera Image Processing Pipeline. , 2021, , .		8
4071	VaPiD: A Rapid Vanishing Point Detector via Learned Optimizers. , 2021, , .		8
4072	A Multi-Scale Layer-Channel Attention Network for Image Super-Resolution. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
4073	Context Reasoning Attention Network for Image Super-Resolution. , 2021, , .		36
4074	Real-time Image Enhancer via Learnable Spatial-aware 3D Lookup Tables. , 2021, , .		31
4075	Dynamic High-Pass Filtering and Multi-Spectral Attention for Image Super-Resolution. , 2021, 2021, 4268-4277.		30
4076	Deep Blind Video Super-resolution. , 2021, , .		15
4077	Dual-Camera Super-Resolution with Aligned Attention Modules. , 2021, , .		26
4078	SSH: A Self-Supervised Framework for Image Harmonization. , 2021, , .		26
4079	A Novel End-To-End Network for Reconstruction of Non-Regularly Sampled Image Data Using Locally Fully Connected Layers. , 2021, , .		2
4080	Wind power prediction based on CNN-LSTM. , 2021, , .		6
4081	Lightweight Image Super-Resolution via Dual Feature Aggregation Network. , 2021, , .		0
4082	Face Image Super-resolution Based On Relative Average Generative Adversarial Networks. , 2021, , .		0
4083	Applying Deep Residual Network to Suppress Optical Coding Access Interference. , 2021, , .		0
4084	Image Quality Improve by Super Resolution Generative Adversarial Networks. , 2021, , .		0
4085	Acceleration and higher precision by discrete wavelet transform for single image super-resolution using convolutional neural networks. , 2021, , .		1
4086	Multispectral Remote Sensing Image Classification Using Modern Machine Intelligence Approach. , 2021, , .		1
4087	Super Resolution of MR via Learning Virtual Parallel Imaging. , 2021, , .		0
4088	Two class weather classification with bagging technique. , 2021, , .		1
4089	Super-resolution using Deep Networks for Chest X-Ray Images. , 2021, , .		1
4090	Segmentation with Speckle Reduction and Superresolution by Deep Learning for Human Ultrasonic Echo Image. , 2021, 2021, 3663-3667.		1



#	ARTICLE	IF	CITATIONS
4091	A High-Performance Accelerator for Super-Resolution Processing on Embedded GPU. , 2021, , .		1
4092	Channel Split Convolutional Neural Network for Single Image Super-Resolution (CSISR). , 2021, , .		1
4093	Adapted discriminative coupled mappings for low-resolution face recognition with one-shot. Journal of Intelligent and Fuzzy Systems, 2021, , 1-15.	0.8	0
4094	Cloud Image Super-Resolution Based on Residual Network. , 2021, , .		0
4095	A Robust Hybrid Deep Learning Model for Spatiotemporal Image Fusion. Remote Sensing, 2021, 13, 5005.	1.8	15
4096	Improved Super-resolution Network based on SRCNN. , 2021, , .		0
4097	Toward Efficient CNN Compression via Coordinate Descent Structure Search. , 2021, , .		0
4098	Voxel-based Deep Learning for Image Super-resolution of Areal Density Maps of Carbon-nanotube Sheets. , 2021, , .		0
4099	Weather Radar Image Superresolution Using a Nonlocal Residual Network. Journal of Mathematics, 2021, 2021, 1-11.	0.5	5
4100	Data Augmentation for Deep Neural Networks Model in EEG Classification Task: A Review. Frontiers in Human Neuroscience, 2021, 15, 765525.	1.0	30
4101	Automatic and Accurate Calculation of Rice Seed Setting Rate Based on Image Segmentation and Deep Learning. Frontiers in Plant Science, 2021, 12, 770916.	1.7	7
4102	A Multi-Feature Fusion Convolution Neural Network for Image Compression Artifacts Reduction. , 2021, , .		1
4104	Lightweight Multi-Scale Asymmetric Attention Network for Image Super-Resolution. Micromachines, 2022, 13, 54.	1.4	4
4105	A Perceptual Loss For Screen Content Image Super-Resolution. , 2021, , .		0
4106	Improving the Spatial Resolution of Solar Images Using Generative Adversarial Network and Self-attention Mechanism*. Astrophysical Journal, 2021, 923, 76.	1.6	7
4107	An Adversarial Learning Approach for Super-Resolution Enhancement Based on AgCl@Ag Nanoparticles in Scanning Electron Microscopy Images. Nanomaterials, 2021, 11, 3305.	1.9	4
4108	Single-Image Super-Resolution of Sentinel-2 Low Resolution Bands with Residual Dense Convolutional Neural Networks. Remote Sensing, 2021, 13, 5007.	1.8	7
4109	Perceptual improvements for Super-Resolution of Satellite Imagery. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
4110	Attention-guided Convolutional Neural Network for Lightweight JPEG Compression Artifacts Removal. , 2021, , .		0
4111	Infrared Image Super-Resolution via Progressive Compact Distillation Network. Electronics (Switzerland), 2021, 10, 3107.	1.8	1
4112	Pyramid Information Distillation Attention Network for Super-Resolution Reconstruction of Remote Sensing Images. Remote Sensing, 2021, 13, 5143.	1.8	3
4113	CNN-Based Terrain Classification with Moisture Content Using RGB-IR Images. Journal of Robotics and Mechatronics, 2021, 33, 1294-1302.	0.5	1
4114	Improved detection of small objects in road network sequences using <scp>CNN</scp> and super resolution. Expert Systems, 2022, 39, .	2.9	8
4115	Semi-supervised image super-resolution with attention CycleGAN. IET Image Processing, 2022, 16, 1181-1193.	1.4	1
4116	CNN-based Super Resolution for Video Coding Using Decoded Information. , 2021, , .		8
4117	Residual Geometric Feature Transform Network for 3D Surface Super-Resolution. , 2021, , .		0
4118	A Two-Stage CNN Based Channel Estimation for OFDM System. , 2021, , .		4
4119	Glance: A Generative Approach to Interactive Visualization of Voluminous Satellite Imagery. , 2021, , .		3
4120	Interpolation based Single-path Sub-pixel Convolution for Super-Resolution Multi-Scale Networks. Journal of Multimedia Information System, 2021, 8, 203-210.	0.4	1
4121	Deep Learning on Synthesized Sensor Characteristics and Transmission Spectra Enabling MEMS-Based Spectroscopic Gas Analysis beyond the Fourier Transform Limit. Foundations, 2021, 1, 304-317.	0.4	3
4122	Low Resolution Face Recognition using Enhanced SRGAN Generated Images. , 2021, , .		2
4123	Analysis and Prediction of COVID-19 with Image Super-Resolution Using CNN and SRCNN-Based Approach. Smart Innovation, Systems and Technologies, 2022, , 33-40.	0.5	2
4124	Time-travel rephotography. ACM Transactions on Graphics, 2021, 40, 1-12.	4.9	13
4125	Residual Channel Attention Connection Network for Reference-based Image Super-resolution. , 2021, , .		1
4126	Quality Assessment of Deep Learning Based Super Resolution Techniques on Thermal Images. , 2021, , .		0
4127	Evaluating the Efficacy of Small Face Recognition by Convolutional Neural Networks with Interpolation Based on Auto-adjusted Parameters and Transfer Learning. Applied Artificial Intelligence, 2022, 36, .	2.0	0

#	ARTICLE	IF	CITATIONS
4128	Super-Resolution of Thermal Images Using GAN Network. , 2021, , .		1
4129	IMAGE PREPROCESSING METHODS IN PERSONAL IDENTIFICATION SYSTEMS. XXI Vek: Itogi ProĀologo I Problemy NastoĀĀego PIA»s, 2021, 10, .	0.0	0
4130	Deep learning based classification of dynamic processes in time-resolved X-ray tomographic microscopy. Scientific Reports, 2021, 11, 24174.	1.6	3
4131	Motion artifact reduction in abdominal MRIs using generative adversarial networks with perceptual similarity loss. , 2021, , .		1
4132	Contribution Analysis of Optimization Methods on Super-Resolution. Afyon Kocatepe University Journal of Sciences and Engineering, 2021, 21, 1343-1352.	0.1	0
4133	Experimental Proof Manifest Bilateral Blur as Outstanding Blurring Technique for CNN Based SR Models to Converge Quickly. , 2021, , .		2
4134	Unsupervised Cycle-Consistent Generative Adversarial Networks for Pan Sharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	10
4135	End-to-end Handwritten Chinese Paragraph Text Recognition Using Residual Attention Networks. Intelligent Automation and Soft Computing, 2022, 34, 371-388.	1.6	3
4136	Structured Term Pruning for Computational Efficient Neural Networks Inference. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 190-203.	1.9	2
4139	Learning Enriched Features for Fast Image Restoration and Enhancement. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 1934-1948.	9.7	56
4140	When Pansharpening Meets Graph Convolution Network and Knowledge Distillation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	13
4141	FeNet: Feature Enhancement Network for Lightweight Remote-Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	13
4142	Efficient Channel Prediction Technique Using AMC and Deep Learning Algorithm for 5G (NR) mMTC Devices. IEEE Access, 2022, 10, 45053-45060.	2.6	5
4144	Denosed Autoencoder using DCNN Transfer Learning Approach. , 2022, , .		3
4145	Real-World super-resolution under the guidance of optimal transport. Machine Vision and Applications, 2022, 33, .	1.7	1
4146	Image super-resolution reconstruction based on instance spatial feature modulation and feedback mechanism. Applied Intelligence, 2023, 53, 601-615.	3.3	6
4147	Image Super-Resolution via Dual-Level Recurrent Residual Networks. Sensors, 2022, 22, 3058.	2.1	4
4148	Self super-resolution autostereoscopic 3D measuring system using deep convolutional neural networks. Optics Express, 2022, 30, 16313.	1.7	2

#	ARTICLE	IF	CITATIONS
4149	Analyzing X-Ray CT Images from Unconventional Reservoirs Using Deep Generative Models. , 2022, , .		0
4150	Multi-Scale Factor Image Super-Resolution Algorithm with Information Distillation Network. Applied Sciences (Switzerland), 2022, 12, 4131.	1.3	0
4151	Super-resolving microscopy images of Li-ion electrodes for fine-feature quantification using generative adversarial networks. Npj Computational Materials, 2022, 8, .	3.5	9
4152	An image-guided network for depth edge enhancement. Eurasip Journal on Image and Video Processing, 2022, 2022, .	1.7	3
4153	Single image super-resolution via deep progressive multi-scale fusion networks. Neural Computing and Applications, 2022, 34, 10707-10717.	3.2	4
4154	Neuroimaging in the Era of Artificial Intelligence: Current Applications. , 2022, , .		5
4155	Modified U-Net for cytological medical image segmentation. International Journal of Imaging Systems and Technology, 0, , .	2.7	5
4156	A Graph Fourier Transform Based Bidirectional Long Short-Term Memory Neural Network for Electrophysiological Source Imaging. Frontiers in Neuroscience, 2022, 16, 867466.	1.4	19
4157	IPAS-Net: A deep-learning model for generating high-fidelity shoeprints from low-quality images with no natural references. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 2743-2757.	2.7	2
4158	Privacy protection and beautification of cornea images. Multimedia Tools and Applications, 0, , 1.	2.6	0
4159	Secured Secret Sharing of QR Codes Based on Nonnegative Matrix Factorization and Regularized Super Resolution Convolutional Neural Network. Sensors, 2022, 22, 2959.	2.1	7
4160	DeepLumina: A Method Based on Deep Features and Luminance Information for Color Texture Classification. Computational Intelligence and Neuroscience, 2022, 2022, 1-16.	1.1	6
4161	Estimating Hourly Surface Solar Irradiance from GK2A/AMI Data Using Machine Learning Approach around Korea. Remote Sensing, 2022, 14, 1840.	1.8	7
4162	Deep learning-based supervised learning for interpolation and regularization of 3D offset classes. Geophysical Prospecting, 2024, 72, 35-51.	1.0	1
4163	Swin transformer for fast MRI. Neurocomputing, 2022, 493, 281-304.	3.5	55
4164	Union is Strength: Improving face sketch synthesis by fusing outcomes of Fully-Convolutional-Networks and Random Sampling Locality Constraint. AEJ - Alexandria Engineering Journal, 2022, 61, 10727-10741.	3.4	0
4165	Deep Learning-based Face Super-resolution: A Survey. ACM Computing Surveys, 2023, 55, 1-36.	16.1	50
4167	Pansharpener via Triplet Attention Network With Information Interaction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3576-3588.	2.3	6

#	ARTICLE	IF	CITATIONS
4168	Light Field Reconstruction Using Efficient Pseudo 4D Epipolar-Aware Structure. IEEE Transactions on Computational Imaging, 2022, 8, 397-410.	2.6	15
4169	Unsupervised Blur Kernel Estimation and Correction for Blind Super-Resolution. IEEE Access, 2022, 10, 45179-45189.	2.6	1
4170	Omnidirectional Image Super-Resolution via Latitude Adaptive Network. IEEE Transactions on Multimedia, 2023, 25, 4108-4120.	5.2	5
4171	Artifact Reduction for Sparse-View CT Using Deep Learning With Band Patch. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 859-873.	2.7	11
4172	Image Super Resolution using Enhanced Super Resolution Generative Adversarial Network. ITM Web of Conferences, 2022, 44, 03054.	0.4	1
4173	On Coupling Classification and Super-Resolution in Remote Urban Sensing: An Integrated Deep Learning Approach. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	2
4174	Deep Learning-Based Upscaling for In Situ Volume Visualization. Mathematics and Visualization, 2022, , 331-352.	0.4	3
4176	Siamese-SR: A Siamese Super-Resolution Model for Boosting Resolution of Digital Rock Images for Improved Petrophysical Property Estimation. IEEE Transactions on Image Processing, 2022, 31, 3479-3493.	6.0	12
4178	Deep radio-interferometric imaging with POLISH: DSA-2000 and weak lensing. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2614-2626.	1.6	9
4179	DSMA: Reference-Based Image Super-Resolution Method Based on Dual-View Supervised Learning and Multi-Attention Mechanism. IEEE Access, 2022, 10, 54649-54659.	2.6	1
4180	Genetic Algorithm-Based Structure Reduction for Convolutional Neural Network. Journal of Electrical Engineering and Technology, 0, , .	1.2	0
4181	Hyperspectral Image Super-Resolution Method Based on Spectral Smoothing Prior and Tensor Tubal Row-Sparse Representation. Remote Sensing, 2022, 14, 2142.	1.8	5
4182	Data-driven personalisation of television content: a survey. Multimedia Systems, 2022, 28, 2193-2225.	3.0	2
4183	Super-Resolution for Brain MR Images from a Significantly Small Amount of Training Data. , 2022, 3, .		0
4184	Image Reconstruction of Multibranch Feature Multiplexing Fusion Network with Mixed Multilayer Attention. Remote Sensing, 2022, 14, 2029.	1.8	4
4185	Sequential Hierarchical Learning with Distribution Transformation for Image Super-Resolution. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-21.	3.0	3
4186	Inverse Imaging with Generative Priors Via Langevin Dynamics. , 2022, , .		3
4187	A DEM Super-Resolution Reconstruction Network Combining Internal and External Learning. Remote Sensing, 2022, 14, 2181.	1.8	6

#	ARTICLE	IF	CITATIONS
4188	Regularized Latent Space Exploration for Discriminative Face Super-Resolution. , 2022, , .		0
4189	Insights into the microstructure and mechanical properties evolution of hydration products in cementitious materials incorporating GGBFS. Journal of Sustainable Cement-Based Materials, 2023, 12, 403-414.	1.7	3
4190	Weakly-supervised contrastive learning-based implicit degradation modeling for blind image super-resolution. Knowledge-Based Systems, 2022, 249, 108984.	4.0	7
4191	Video super-resolution enhancement based on 3D spatio-temporal fusion model. , 2022, , .		0
4192	Self-Learned Video Super-Resolution with Augmented Spatial and Temporal Context. , 2022, , .		0
4193	A Motion Deblurring Disentangled Representation Network. Knowledge-Based Systems, 2022, 249, 108867.	4.0	2
4194	HIFA-LPR: High-Frequency Augmented License Plate Recognition in Low-Quality Legacy Conditions via Gradual End-to-End Learning. Mathematics, 2022, 10, 1569.	1.1	4
4195	Single image deraining via deep residual attention and encoder-decoder network. Journal of Intelligent and Fuzzy Systems, 2022, , 1-15.	0.8	0
4196	Progressive Image Super-Resolution via Neural Differential Equation. , 2022, , .		0
4197	Differential Strategy-Based Multi-Level Dense Network for Pansharpening. Remote Sensing, 2022, 14, 2347.	1.8	2
4198	An improved algorithm for superresolution reconstruction of ancient murals with a generative adversarial network based on asymmetric pyramid modules. Heritage Science, 2022, 10, .	1.0	2
4199	Video Super-Resolution Using Multi-Scale and Non-Local Feature Fusion. Electronics (Switzerland), 2022, 11, 1499.	1.8	4
4200	HIRL: Hybrid Image Restoration Based on Hierarchical Deep Reinforcement Learning via Two-Step Analysis. , 2022, , .		0
4201	Pyramid Fusion Attention Network For Single Image Super-Resolution. , 2022, , .		1
4202	Hyperspectral image super-resolution using multi-scale decomposition and convolutional neural network based on relation type between low- and high-resolution images. Signal, Image and Video Processing, 0, , 1.	1.7	0
4203	A deep variational Bayesian framework for blind image deblurring. Knowledge-Based Systems, 2022, 249, 109008.	4.0	5
4204	Attribute-Conditioned Face Swapping Network for Low-Resolution Images. , 2022, , .		1
4205	Differentiable Network Pruning via Polarization of Probabilistic Channelwise Soft Masks. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	1

#	ARTICLE	IF	CITATIONS
4206	Through-Plane Super-Resolution With Autoencoders in Diffusion Magnetic Resonance Imaging of the Developing Human Brain. <i>Frontiers in Neurology</i> , 2022, 13, 827816.	1.1	2
4207	SELF-LLP: Self-supervised learning from label proportions with self-ensemble. <i>Pattern Recognition</i> , 2022, 129, 108767.	5.1	7
4208	Combustion machine learning: Principles, progress and prospects. <i>Progress in Energy and Combustion Science</i> , 2022, 91, 101010.	15.8	77
4209	B2GAN: Bidirectional-branch generative adversarial network for text image super-resolution with structure preservation. <i>Optik</i> , 2022, 261, 169093.	1.4	0
4210	Image super-resolution reconstruction algorithm based on significant network connection-collaborative migration structure. , 2022, 127, 103566.		6
4211	DCT-FANet: DCT based frequency attention network for single image super-resolution. <i>Displays</i> , 2022, 74, 102220.	2.0	9
4212	A survey on multimodal-guided visual content synthesis. <i>Neurocomputing</i> , 2022, 497, 110-128.	3.5	4
4213	Realistic frontal face reconstruction using coupled complementarity of far-near-sighted face images. <i>Pattern Recognition</i> , 2022, 129, 108754.	5.1	1
4214	A Novel Encryption-Then-Lossy-Compression Scheme of Color Images Using Customized Residual Dense Spatial Network. <i>IEEE Transactions on Multimedia</i> , 2023, 25, 4026-4040.	5.2	2
4215	Curvature Consistent Network for Microscope Chip Image Super-Resolution. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 10538-10551.	7.2	12
4216	Super-resolution image reconstruction network based on dual-channel pixel attention mechanism. <i>Journal of Physics: Conference Series</i> , 2022, 2170, 012005.	0.3	0
4217	Design and Implementation of Obstetric Central Monitoring System Based on Medical Image Segmentation Algorithm. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-13.	1.1	0
4218	A novel approach for unlabeled samples in radiation source identification. <i>Journal of Systems Engineering and Electronics</i> , 2022, 33, 354-359.	1.1	3
4219	High-Magnification Super-Resolution Reconstruction of Image with Multi-Task Learning. <i>Electronics (Switzerland)</i> , 2022, 11, 1412.	1.8	2
4220	Perception-oriented Single Image Super-Resolution Network with Receptive Field Block. <i>Neural Computing and Applications</i> , 2022, 34, 14845-14858.	3.2	1
4221	Sequential Enhancement for Compressed Video Using Deep Convolutional Generative Adversarial Network. <i>Neural Processing Letters</i> , 0, , 1.	2.0	0
4223	Improving Multi-View Stereo via Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2022, , 102-113.	1.0	0
4224	Unsupervised Real-World Image Super-Resolution via Dual Synthetic-to-Realistic and Realistic-to-Synthetic Translations. <i>IEEE Signal Processing Letters</i> , 2022, 29, 1282-1286.	2.1	2



#	ARTICLE	IF	CITATIONS
4225	Terrain feature-aware deep learning network for digital elevation model superresolution. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 189, 143-162.	4.9	23
4226	Multi-level Wavelet Packet Prediction for Image Super-Resolution. Lecture Notes in Electrical Engineering, 2022, , 860-866.	0.3	1
4227	CNNPC: End-Edge-Cloud Collaborative CNN Inference With Joint Model Partition and Compression. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4039-4056.	4.0	8
4230	Frequency-Based Enhancement Network for Efficient Super-Resolution. IEEE Access, 2022, 10, 57383-57397.	2.6	5
4232	MESR: Multistage Enhancement Network for Image Super-Resolution. IEEE Access, 2022, 10, 54599-54612.	2.6	1
4234	Multiscale Spatial Fusion and Regularization Induced Unsupervised Auxiliary Task CNN Model for Deep Super-Resolution of Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4583-4598.	2.3	3
4235	BDIS: Balanced Training Architecture for Dual Image Scaler Using Origin Referenceable Losses. IEEE Access, 2022, 10, 56469-56481.	2.6	0
4236	Underwater Image Deblurring Framework Using A Generative Adversarial Network. , 2022, , .		4
4237	Lossless Compression Method of Color Image Based on Improved Particle Swarm Optimization. , 2022, , .		0
4238	High Performance Image Super-Resolution Using Convolutional Neural Networks and Nonsubsampled Contourlet Transform. Journal of Communications Technology and Electronics, 2022, 67, 418-429.	0.2	0
4239	Deep learning for blind structured illumination microscopy. Scientific Reports, 2022, 12, .	1.6	12
4240	Semantically accurate super-resolution Generative Adversarial Networks. Computer Vision and Image Understanding, 2022, 221, 103464.	3.0	3
4241	Shared knowledge distillation for robust multi-scale super-resolution networks. Electronics Letters, 2022, 58, 502-504.	0.5	1
4242	Super-resolving and composing building dataset using a momentum spatial-channel attention residual feature aggregation network. International Journal of Applied Earth Observation and Geoinformation, 2022, 111, 102826.	0.9	3
4243	&lt;P Class="Els-Title"&gt;Deep Learning Image Dehazing Scheme Using Recursive Convolutional Layer Feature Extraction Method&lt;O:P&gt;&lt;O:P&gt;&lt;P&gt;. SSRN Electronic Journal, 0, , .	0.4	0
4244	Provable Compressed Sensing With Generative Priors via Langevin Dynamics. IEEE Transactions on Information Theory, 2022, 68, 7410-7422.	1.5	3
4245	Deep Learning for Downscaling Remote Sensing Images: Fusion and super-resolution. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 202-255.	4.9	12
4246	Cross-Domain Contrastive Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	18



#	ARTICLE	IF	CITATIONS
4247	Joint Wavelet Sub-Bands Guided Network for Single Image Super-Resolution. IEEE Transactions on Multimedia, 2023, 25, 4623-4637.	5.2	5
4248	Multiattention Generative Adversarial Network for Remote Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	27
4249	SRUNet: Stacked Reversed U-Shape Network for Lightweight Single Image Super-Resolution. IEEE Access, 2022, 10, 60151-60162.	2.6	1
4250	Conditional Hyper-Network for Blind Super-Resolution With Multiple Degradations. IEEE Transactions on Image Processing, 2022, 31, 3949-3960.	6.0	8
4251	An Efficient Enhancement Framework for Videoscope Images in Electric Supply Surveillance Applications. SSRN Electronic Journal, 0, , .	0.4	0
4252	Role of artificial intelligence in MS clinical practice. NeuroImage: Clinical, 2022, 35, 103065.	1.4	23
4253	Fast Image Super-Resolution Based on Multi-Feature Extraction Network. , 2022, , .		0
4254	Underwater Image Enhancement and Super Resolution based on Deep CNN Method. , 2022, , .		3
4255	Super-resolution algorithm using an improved generative adversarial network. , 2022, , .		0
4256	Research on Small Sample Data-Driven Inspection Technology of UAV for Transmission Line Insulator Defect Detection. Information (Switzerland), 2022, 13, 276.	1.7	7
4257	Multi-Domain Neumann Network with Sensitivity Maps for Parallel MRI Reconstruction. Sensors, 2022, 22, 3943.	2.1	4
4258	TE-SAGAN: An Improved Generative Adversarial Network for Remote Sensing Super-Resolution Images. Remote Sensing, 2022, 14, 2425.	1.8	29
4259	MFEN: Lightweight multi-scale feature extraction super-resolution network in embedded system. Microprocessors and Microsystems, 2022, 93, 104568.	1.8	5
4260	Lightweight single image super-resolution with attentive residual refinement network. Neurocomputing, 2022, 500, 846-855.	3.5	11
4261	Super-resolution of very low-resolution face images with a wavelet integrated, identity preserving, adversarial network. Signal Processing: Image Communication, 2022, 107, 116755.	1.8	7
4262	Learning a spatial-temporal symmetry network for video super-resolution. Applied Intelligence, 0, , .	3.3	1
4263	Neural texture transfer assisted video coding with adaptive up-sampling. Signal Processing: Image Communication, 2022, 107, 116754.	1.8	0
4264	Enhancing Precision with an Ensemble Generative Adversarial Network for Steel Surface Defect Detectors (EnsGAN-SDD). Sensors, 2022, 22, 4257.	2.1	3

#	ARTICLE	IF	CITATIONS
4265	AutoPhaseNN: unsupervised physics-aware deep learning of 3D nanoscale Bragg coherent diffraction imaging. Npj Computational Materials, 2022, 8, .	3.5	18
4266	Adjustable super-resolution network via deep supervised learning and progressive self-distillation. Neurocomputing, 2022, 500, 379-393.	3.5	5
4267	Deformable transformer for endoscopic video super-resolution. Biomedical Signal Processing and Control, 2022, 77, 103827.	3.5	2
4269	Enhancing the Resolution of Satellite Imagery Using a Generative Model. , 2021, , .		0
4270	Combination of Images and Point Clouds in a Generative Adversarial Network for Upsampling Crack Point Clouds. IEEE Access, 2022, 10, 67198-67209.	2.6	2
4271	Robust Deep Compressive Sensing With Recurrent-Residual Structural Constraints. IEEE Transactions on Computational Imaging, 2022, 8, 551-560.	2.6	1
4272	Interactformer: Interactive Transformer and CNN for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	24
4273	Research on an improved fish recognition algorithm based on YOLOX. ITM Web of Conferences, 2022, 47, 02003.	0.4	1
4274	Learning Deep Resonant Prior for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	8
4275	Spatio-temporal Spectral Collaborative Learning for Spatio-temporal Fusion with Land Cover Changes. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	11
4276	(MLE <sup>2</sup> AS <sup>2</sup> U)-Net: Image Super-Resolution via Multi-Level Edge Embedding and Aggregated Attentive Upsampler Network. IEEE Transactions on Emerging Topics in Computational Intelligence, 2023, 7, 523-536.	3.4	3
4277	Rectified Wasserstein Generative Adversarial Networks for Perceptual Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-16.	9.7	3
4278	A Self-Supervised Residual Feature Learning Model for Multifocus Image Fusion. IEEE Transactions on Image Processing, 2022, 31, 4527-4542.	6.0	12
4279	Propagating Facial Prior Knowledge for Multitask Learning in Face Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7317-7331.	5.6	15
4280	A World-Self Model Towards Understanding Intelligence. IEEE Access, 2022, 10, 63034-63048.	2.6	0
4281	Terahertz Super-Resolution Nondestructive Detection Algorithm Based on Edge Feature Convolution Network. IEEE Access, 2023, 11, 2721-2728.	2.6	1
4282	EDFace-Celeb-1 M: Benchmarking Face Hallucination With a Million-Scale Dataset. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 3968-3978.	9.7	4
4283	Memory-Efficient Deformable Convolution Based Joint Denoising and Demosaicing for UHD Images. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7346-7358.	5.6	11

#	ARTICLE	IF	CITATIONS
4284	Selfie Periocular Verification Using an Efficient Super-Resolution Approach. IEEE Access, 2022, 10, 67573-67589.	2.6	3
4285	Bi-RSTU: Bidirectional Recurrent Upsampling Network for Space-Time Video Super-Resolution. IEEE Transactions on Multimedia, 2023, 25, 4742-4751.	5.2	1
4287	Image Inpainting Based on Interactive Separation Network and Progressive Reconstruction Algorithm. IEEE Access, 2022, 10, 67814-67825.	2.6	2
4288	Border Management Using Internet of Things. , 2022, , .		0
4289	Improved Resolution of Dehazed Images with Dark Channel Prior and Super Resolution GAN. , 2022, , .		0
4290	Dual Projection Fusion for Reference-Based Image Super-Resolution. Sensors, 2022, 22, 4119.	2.1	1
4292	Image Super-Resolution Method Based on Dual Learning. Journal of Circuits, Systems and Computers, 0, , .	1.0	1
4293	A multi-stage spatio-temporal adaptive network for video super-resolution. Journal of Visual Communication and Image Representation, 2022, 87, 103555.	1.7	1
4294	Super-Resolution of Sentinel-2 Images Using a Spectral Attention Mechanism. Remote Sensing, 2022, 14, 2890.	1.8	9
4295	Image super-resolution with an enhanced group convolutional neural network. Neural Networks, 2022, 153, 373-385.	3.3	43
4296	Single Image Super-Resolution Method Based on an Improved Adversarial Generation Network. Applied Sciences (Switzerland), 2022, 12, 6067.	1.3	4
4297	Complex "zero-shot" super-resolution reconstruction algorithm for THz imaging. Applied Optics, 2022, 61, 5831.	0.9	3
4298	Pothole Detection Using Image Enhancement GAN and Object Detection Network. Electronics (Switzerland), 2022, 11, 1882.	1.8	10
4300	Pyramidal dense attention networks for single image super-resolution. IET Image Processing, 2022, 16, 3247-3257.	1.4	2
4301	Super Resolution Image Visual Quality Assessment Based on Feature Optimization. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	0
4302	MSAC-Net: 3D Multi-Scale Attention Convolutional Network for Multi-Spectral Imagery Pansharpening. Remote Sensing, 2022, 14, 2761.	1.8	5
4303	Wide field-of-view line-scanning lensless in-line holographic microscope. Optical Engineering, 2022, 61, .	0.5	1
4304	Quantifying information of intracellular signaling: progress with machine learning. Reports on Progress in Physics, 2022, 85, 086602.	8.1	10

#	ARTICLE	IF	CITATIONS
4305	Denoising and feature extraction in photoemission spectra with variational auto-encoder neural networks. Review of Scientific Instruments, 2022, 93, .	0.6	1
4306	Comparison of super-resolution and noise reduction for passive single-photon imaging. Journal of Electronic Imaging, 2022, 31, .	0.5	2
4307	Reivew of Light Field Image Super-Resolution. Electronics (Switzerland), 2022, 11, 1904.	1.8	4
4308	Effects of Data Enrichment with Image Transformations on the Performance of Deep Networks. , 2022, 2, 23-33.		0
4309	Landweber Iteration-Inspired Network for Image Super-Resolution. Mathematical Problems in Engineering, 2022, 2022, 1-10.	0.6	1
4310	Intensifying the spatial resolution of 3D thermal models from aerial imagery using deep learning-based image super-resolution. Geocarto International, 2022, 37, 13518-13538.	1.7	1
4311	Deep Learning-Based Prediction of Hematoma Expansion Using a Single Brain Computed Tomographic Slice in Patients With Spontaneous Intracerebral Hemorrhages. World Neurosurgery, 2022, 165, e128-e136.	0.7	6
4312	SREFBN: Enhanced feature block network for single-image super-resolution. IET Image Processing, 0, , .	1.4	2
4313	Adapting a low-count acquisition of the bone scintigraphy using deep denoising super-resolution convolutional neural network. Physica Medica, 2022, 100, 18-25.	0.4	4
4314	Detection and classification of pipe defects based on pipe-extended feature pyramid network. Automation in Construction, 2022, 141, 104399.	4.8	4
4316	GLEAN: Generative Latent Bank for Image Super-Resolution and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-14.	9.7	5
4317	SWCGAN: Generative Adversarial Network Combining Swin Transformer and CNN for Remote Sensing Image Super-Resolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5662-5673.	2.3	24
4319	Data Acquisition and Preparation for Dual-Reference Deep Learning of Image Super-Resolution. IEEE Transactions on Image Processing, 2022, 31, 4393-4404.	6.0	6
4320	Super-resolution reconstruction of magnetic resonance images based on multi-scale feature extraction Super-Resolution Convolution Neural Network. Digital Medicine, 2022, 8, 11.	0.1	0
4321	TranSMS: Transformers for Super-Resolution Calibration in Magnetic Particle Imaging. IEEE Transactions on Medical Imaging, 2022, 41, 3562-3574.	5.4	35
4322	LDP-Net: An Unsupervised Pansharpening Network Based on Learnable Degradation Processes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 5468-5479.	2.3	13
4323	Tchebichef Transform Domain-Based Deep Learning Architecture for Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2182-2193.	7.2	1
4324	Depth Map Super-Resolution via Joint Local Gradient and Nonlocal Structural Regularizations. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 8297-8311.	5.6	2

#	ARTICLE	IF	CITATIONS
4325	A Spatio-Spectral Fusion Method for Hyperspectral Images Using Residual Hyper-Dense Network. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2235-2249.	7.2	5
4326	SRInpaintor: When Super-Resolution Meets Transformer for Image Inpainting. IEEE Transactions on Computational Imaging, 2022, 8, 743-758.	2.6	3
4327	Convolutional neural networks for image synthesis. , 2022, , 91-104.		0
4328	DSRGAN: Detail Prior-Assisted Perceptual Single Image Super-Resolution via Generative Adversarial Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7418-7431.	5.6	8
4329	A Survey on Deep Learning Based Channel Estimation in Doubly Dispersive Environments. IEEE Access, 2022, 10, 70595-70619.	2.6	17
4331	Multimodal-Boost: Multimodal Medical Image Super-Resolution Using Multi-Attention Network With Wavelet Transform. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2023, 20, 2420-2433.	1.9	8
4332	Remote Sensing for Subsurface and Deeper Oceans: An overview and a future outlook. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 72-92.	4.9	6
4333	PU-LNGCN: Multi-scale Design of Point Cloud Upsampling Using Graph Convolutional Networks. , 2022, , .		0
4334	An Edge Aware Motion Modeling Technique Leveraging on the Discrete Cosine Basis Oriented Motion Model and Frame Super Resolution. , 2022, , .		3
4335	Hierarchical Iris Image Super Resolution based on Wavelet Transform. , 2022, , .		0
4336	Implicit LiDAR Network: LiDAR Super-Resolution via Interpolation Weight Prediction. , 2022, , .		9
4337	Fusion Network for Super Resolution of UAVs Visible and Thermal Images. , 2022, , .		2
4338	Infrared Image Super-Resolution via Generative Adversarial Network with Gradient Penalty Loss. , 2022, , .		0
4339	Adaptive F-SCA Method for Video Super Resolution. , 2022, , .		0
4340	Image Super-Resolution Method Based on Improved Generative Adversarial Network. , 2022, , .		0
4341	A Novel Sub-Pixel-Shift-Based High-Resolution X-ray Flat Panel Detector. Coatings, 2022, 12, 921.	1.2	1
4342	Adaptive Bilateral Texture Filter for Image Smoothing. Frontiers in Neurorobotics, 0, 16, .	1.6	1
4343	A new generative adversarial network for medical images super resolution. Scientific Reports, 2022, 12, .	1.6	42

#	ARTICLE	IF	CITATIONS
4344	VPint: value propagation-based spatial interpolation. Data Mining and Knowledge Discovery, 0, , .	2.4	0
4345	Fast and accurate super-resolution of MR images based on lightweight generative adversarial network. Multimedia Tools and Applications, 2023, 82, 2465-2487.	2.6	2
4346	Fast bilateral complementary network for deep learning compressed sensing image reconstruction. IET Image Processing, 0, , .	1.4	0
4347	De-aliased high-resolution Radon transform based on the sparse prior information from the convolutional neural network. Journal of Geophysics and Engineering, 2022, 19, 663-680.	0.7	0
4348	A full-function memristive pavlov associative memory circuit with inter-stimulus interval effect. Neurocomputing, 2022, 506, 68-83.	3.5	4
4349	Single-shot T <sub>2</sub> mapping via multi-echo train multiple overlapping echo detachment planar imaging and multitask deep learning. Medical Physics, 2022, 49, 7095-7107.	1.6	6
4350	A survey on computational spectral reconstruction methods from RGB to hyperspectral imaging. Scientific Reports, 2022, 12, .	1.6	26
4351	Deep learning in ultrasound elastography imaging: A review. Medical Physics, 2022, 49, 5993-6018.	1.6	8
4352	A slimmer and deeper approach to deep network structures for low-level vision tasks. Expert Systems, 2024, 41, .	2.9	3
4353	Infrared and visible light dual-camera super-resolution imaging with texture transfer network. Signal Processing: Image Communication, 2022, 108, 116825.	1.8	2
4354	Superpixel-guided locality quaternion representation for color face hallucination. Information Sciences, 2022, 609, 565-577.	4.0	2
4355	Progressive representation recalibration for lightweight super-resolution. Neurocomputing, 2022, 504, 240-250.	3.5	5
4356	Super-resolution network for x-ray security inspection. , 2022, , .		0
4357	Neural network-based pore flow field prediction in porous media using super resolution. Physical Review Fluids, 2022, 7, .	1.0	13
4358	Locally Regularized Collaborative Representation and an Adaptive Low-Rank Constraint for Single Image Superresolution. Mobile Information Systems, 2022, 2022, 1-14.	0.4	1
4359	Deep-learning with context sensitive quantization and interpolation for underwater image compression and quality image restoration. International Journal of Information Technology (Singapore), 0, , .	1.8	2
4360	A comprehensive review on deep learning based remote sensing image super-resolution methods. Earth-Science Reviews, 2022, 232, 104110.	4.0	96
4361	Improved generative adversarial network for retinal image super-resolution. Computer Methods and Programs in Biomedicine, 2022, 225, 106995.	2.6	9

#	ARTICLE	IF	CITATIONS
4362	An improved bilevel optimization approach for image super-resolution based on a fractional diffusion tensor. <i>Journal of the Franklin Institute</i> , 2022, 359, 7165-7195.	1.9	7
4363	Video super-resolution reconstruction of weak and small target in sea background based on channel attention mechanism. , 2022, , .		0
4364	An image super-resolution method based on polynomial exponential function and non-uniform rectangular partition. <i>Journal of Supercomputing</i> , 0, , .	2.4	0
4365	Progressive Multi-Scale Fusion Network for Light Field Super-Resolution. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7135.	1.3	1
4366	SR-DSFF and FENet-ReID: A Two-Stage Approach for Cross Resolution Person Re-Identification. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-11.	1.1	0
4367	Single-Image Super-Resolution Improvement of X-ray Single-Particle Diffraction Images Using a Convolutional Neural Network. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 3352-3364.	2.5	1
4368	Super-Resolution Images Methodology Applied to UAV Datasets to Road Pavement Monitoring. <i>Drones</i> , 2022, 6, 171.	2.7	13
4369	Vision-based displacement measurement enhanced by super-resolution using generative adversarial networks. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	8
4370	Wavelength-based Attributed Deep Neural Network for Underwater Image Restoration. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2023, 19, 1-23.	3.0	33
4371	Music Score Recognition Method Based on Deep Learning. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-12.	1.1	3
4372	Reconstruction of tomographic gamma scanning transmission image from sparse projections based on convolutional neural networks. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022, 1039, 167110.	0.7	3
4373	Unsupervised simple Siamese representation learning for blind super-resolution. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 114, 105092.	4.3	3
4374	Image enhancement of wide-field retinal optical coherence tomography angiography by super-resolution angiogram reconstruction generative adversarial network. <i>Biomedical Signal Processing and Control</i> , 2022, 78, 103957.	3.5	7
4375	CASR-Net: A color-aware super-resolution network for panchromatic image. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 114, 105084.	4.3	10
4376	Multistep Super Resolution Double-U-net (SRDUN) for enhancing the resolution of Berea sandstone images. <i>Journal of Petroleum Science and Engineering</i> , 2022, 216, 110833.	2.1	12
4377	$R \times \sup_{\theta} \inf_{\phi} \mathcal{L}(R, \theta, \phi)$ Net: Relight the restored low-light image based on complementarity of illumination and reflection. <i>Signal Processing: Image Communication</i> , 2022, 100, 116800.	1.8	1
4378	Task-Aware Compressed Sensing With Generative Adversarial Networks. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2018, 32, .	3.6	20
4380	Using GAN Neural Networks for Super-Resolution Reconstruction of Temperature Fields. <i>Intelligent Automation and Soft Computing</i> , 2023, 35, 941-956.	1.6	0



#	ARTICLE	IF	CITATIONS
4381	Multi-Scale Pixel-Attention Feedback Link Network for Single Image Super-Resolution. Pattern Recognition and Image Analysis, 2022, 32, 393-401.	0.6	1
4382	Short-wave infrared polarimetric imagereconstruction using deep convolutional neuralnetwork based on high frequency correlation. Applied Optics, 0, , .	0.9	0
4383	Local-Global Based High-Resolution Spatial-Spectral Representation Network for Pansharpening. Remote Sensing, 2022, 14, 3556.	1.8	1
4384	Small Ship Detection Based on Hybrid Anchor Structure and Feature Super-Resolution. Remote Sensing, 2022, 14, 3530.	1.8	6
4385	Gaussian noise robust face hallucination via average filtering based data fidelity and locality regularization. Applied Intelligence, 2023, 53, 7917-7930.	3.3	3
4386	CNN Based Multi-view Image Quality Enhancement. , 2022, , .		1
4387	Improving Image Super-Resolution Based on Multiscale Generative Adversarial Networks. Entropy, 2022, 24, 1030.	1.1	2
4388	Parametric regularization loss in super-resolution reconstruction. Machine Vision and Applications, 2022, 33, .	1.7	1
4389	Multi-frame generative network for image super-resolution. , 2022, , .		0
4390	Rich feature distillation with feature affinity module for efficient image dehazing. Optik, 2022, 267, 169656.	1.4	3
4391	Residual Dense Attention Networks for COVID-19 Computed Tomography Images Super Resolution. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 904-913.	2.6	9
4392	Boosting Photon-Efficient Image Reconstruction with A Unified Deep Neural Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-18.	9.7	4
4393	An Efficient Scene Text Spotter with a Feature-Level Super-Resolution Module. , 2022, , .		0
4394	Unsupervised Real-World Super-Resolution via Degradation Representations. , 2022, , .		0
4395	Multi-Scale Identity-Preserving Image-to-Image Translation Network for Low-Resolution Face Recognition. , 0, , .		0
4396	Single image super-resolution via deep learning. , 2022, , .		1
4397	Attention Based Neural Networks for Wireless Channel Estimation. , 2022, , .		6
4398	CIPPSRNet: A Camera Internal Parameters Perception Network Based Contrastive Learning for Thermal Image Super-Resolution. , 2022, , .		4



#	ARTICLE	IF	CITATIONS
4399	NL-FFC: Non-Local Fast Fourier Convolution for Image Super Resolution. , 2022, , .		8
4400	Transformer for Single Image Super-Resolution. , 2022, , .		141
4401	Multiple Degradation and Reconstruction Network for Single Image Denoising via Knowledge Distillation. , 2022, , .		6
4402	Edge-enhanced Feature Distillation Network for Efficient Super-Resolution. , 2022, , .		15
4403	RenderSR: A Lightweight Super-Resolution Model for Mobile Gaming Upscaling. , 2022, , .		4
4404	Learning Minimum Variance Unbiased Estimators. , 2022, , .		0
4405	Game Image Quality Enhancement Algorithm based on Generative Adversarial Network and Knowledge Distillation. , 2022, , .		0
4406	Self-Calibrated Efficient Transformer for Lightweight Super-Resolution. , 2022, , .		18
4407	Neural Flow Map Reconstruction. Computer Graphics Forum, 2022, 41, 391-402.	1.8	3
4408	Deep Image Interpolation: A Unified Unsupervised Framework for Pansharpening. , 2022, , .		4
4409	LAN: Lightweight Attention-based Network for RAW-to-RGB Smartphone Image Processing. , 2022, , .		4
4410	From Less to More: Spectral Splitting and Aggregation Network for Hyperspectral Face Super-Resolution. , 2022, , .		5
4411	NTIRE 2022 Challenge on Learning the Super-Resolution Space. , 2022, , .		14
4412	Performance Improvement of Image-Reconstruction-Based Defense against Adversarial Attack. Electronics (Switzerland), 2022, 11, 2372.	1.8	0
4413	Connect to the Past: Graph-Based Latent Estimation for Blind Super-Resolution. , 2022, , .		0
4414	Lightweight Single Image Super-Resolution with Selective Channel Processing Network. Sensors, 2022, 22, 5586.	2.1	6
4415	Lightweight image super-resolution with multiscale residual attention network. Journal of Electronic Imaging, 2022, 31, .	0.5	0
4416	Research on Infrared Image Super-Resolution Based on Enhanced Generative Adversarial Network. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
4417	Fine-grained scale space learning for single image super-resolution. <i>Visual Computer</i> , 2022, 38, 3377-3389.	2.5	3
4418	Enhanced implicit function-based network for arbitrary-scale image super-resolution. <i>Journal of Electronic Imaging</i> , 2022, 31, .	0.5	0
4419	Offshore Oil Slick Detection: From Photo-Interpreter to Explainable Multi-Modal Deep Learning Models Using SAR Images and Contextual Data. <i>Remote Sensing</i> , 2022, 14, 3565.	1.8	8
4420	ECL: Exclusive Curriculum Learning for Video Super-Resolution. , 2022, , .		0
4421	Structured Dynamic Precision for Deep Neural Networks Quantization. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2023, 28, 1-24.	1.9	0
4422	BAM: a balanced attention mechanism to optimize single image super-resolution. <i>Journal of Real-Time Image Processing</i> , 0, , .	2.2	2
4423	Facial-sketch Synthesis: A New Challenge. , 2022, 19, 257-287.		10
4424	Learning to Detect with Constant False Alarm Rate. , 2022, , .		4
4425	PanFormer: A Transformer Based Model for Pan-Sharpening. , 2022, , .		12
4426	AMSNet: Attention-based Multi-Scale Network for Image SR Reconstruction. , 2022, , .		0
4427	Deep convolutional neural network for binary regression of three-dimensional objects using information retrieved from digital Fresnel holograms. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, .	1.1	0
4428	Multi-subband fusion algorithm based on autoencoder. <i>IET Signal Processing</i> , 2022, 16, 1071-1084.	0.9	1
4429	LMix: regularization strategy for convolutional neural networks. <i>Signal, Image and Video Processing</i> , 2023, 17, 1245-1253.	1.7	1
4430	Luotuo Mountain Waste Dump Cover Interpretation Combining Deep Learning and VDWI Based on Data from an Unmanned Aerial Vehicle (UAV). <i>Remote Sensing</i> , 2022, 14, 4043.	1.8	2
4431	11. Deep Learning in Magnetic Resonance Imaging: An Overview and Applications. <i>Japanese Journal of Radiological Technology</i> , 2022, 78, 876-881.	0.0	0
4432	Transpose convolution based model for super-resolution image reconstruction. <i>Applied Intelligence</i> , 0, , .	3.3	2
4433	Face enhancement and hallucination in the wild. <i>Neural Computing and Applications</i> , 0, , .	3.2	0
4434	A Local and Nonlocal Feature Interaction Network for Pansharpening. <i>Remote Sensing</i> , 2022, 14, 3743.	1.8	3

#	ARTICLE	IF	CITATIONS
4435	Towards deep-learning-based image enhancement for optical camera-based monitoring system of laser powder bed fusion process. <i>International Journal of Computer Integrated Manufacturing</i> , 2023, 36, 1281-1294.	2.9	4
4436	Downscaling Earth System Models with Deep Learning. , 2022, , .		2
4437	SRflow: Deep learning based super-resolution of 4D-flow MRI data. <i>Frontiers in Artificial Intelligence</i> , 0, 5, .	2.0	6
4438	Deep attention super-resolution of brain magnetic resonance images acquired under clinical protocols. <i>Frontiers in Computational Neuroscience</i> , 0, 16, .	1.2	3
4439	Image super-resolution using only low-resolution images. <i>Visual Computer</i> , 2023, 39, 5069-5084.	2.5	5
4440	Total generalized variational-liked network for image denoising. <i>Applied Intelligence</i> , 0, , .	3.3	0
4441	Geometry image super-resolution with AnisoCBCConvNet architecture for efficient cloth modeling. <i>PLoS ONE</i> , 2022, 17, e0272433.	1.1	3
4442	Spatial up-sampling of HRTF sets using generative adversarial networks: A pilot study. <i>Frontiers in Signal Processing</i> , 0, 2, .	1.2	3
4443	RGB-D mutual guidance for semi-supervised defocus blur detection. <i>Knowledge-Based Systems</i> , 2022, 255, 109682.	4.0	2
4444	Cloud Gaming Video Coding Optimization Based on Camera Motion-Guided Reference Frame Enhancement. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8504.	1.3	0
4445	Spatial-temporal feature refine network for single image super-resolution. <i>Applied Intelligence</i> , 2023, 53, 9668-9688.	3.3	1
4446	Super-Resolution Reconstruction Model of Spatiotemporal Fusion Remote Sensing Image Based on Double Branch Texture Transformers and Feedback Mechanism. <i>Electronics (Switzerland)</i> , 2022, 11, 2497.	1.8	1
4447	Video super-resolution with fused local and nonlocal feature. <i>Journal of Electronic Imaging</i> , 2022, 31, .	0.5	0
4448	SR-AFU: super-resolution network using adaptive frequency component upsampling and multi-resolution features. <i>Frontiers of Computer Science</i> , 2023, 17, .	1.6	0
4449	Highly accelerated MR parametric mapping by undersampling the k-space and reducing the contrast number simultaneously with deep learning. <i>Physics in Medicine and Biology</i> , 2022, 67, 185004.	1.6	6
4450	Supervised-unsupervised combined deep convolutional neural networks for high-fidelity pansharpening. <i>Information Fusion</i> , 2023, 89, 292-304.	11.7	18
4451	ZY-1 02D Hyperspectral Imagery Super-Resolution via Endmember Matrix Constraint Unmixing. <i>Remote Sensing</i> , 2022, 14, 4034.	1.8	0
4452	RWYI: Reading What You Are Interested in with a Learning-Based Text Interactive System. <i>Mobile Information Systems</i> , 2022, 2022, 1-13.	0.4	0

#	ARTICLE	IF	CITATIONS
4453	SR-USRN: learning image super-resolution with unified structure and reverse network. <i>Signal, Image and Video Processing</i> , 0, , .	1.7	0
4454	Super-resolved synthetic aperture radar image reconstruction based on multiresolution fusion discrimination. <i>Journal of Electronic Imaging</i> , 2022, 31, .	0.5	0
4456	High-order cross-scale attention network for single image super-resolution. , 2022, 129, 103678.		4
4457	Adaptive feature denoising based deep convolutional network for single image super-resolution. <i>Computer Vision and Image Understanding</i> , 2022, 223, 103518.	3.0	1
4458	Mapping an alien invasive shrub within conservation corridors using super-resolution satellite imagery. <i>Journal of Environmental Management</i> , 2022, 321, 116023.	3.8	6
4459	Detail-Enhanced Wavelet Residual Network for Single Image Super-Resolution. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-13.	2.4	12
4463	Mixed noise face hallucination via adaptive weighted residual and nuclear-norm regularization. <i>Applied Intelligence</i> , 0, , .	3.3	0
4464	SeisDeepNET: An extension of DeepLabv3+ for full waveform inversion problem. <i>Expert Systems With Applications</i> , 2022, , 118848.	4.4	1
4465	RACDNet: Resolution- and Alignment-Aware Change Detection Network for Optical Remote Sensing Imagery. <i>Remote Sensing</i> , 2022, 14, 4527.	1.8	2
4466	DFSNE-Net: Deviant feature sensitive noise estimate network for low-dose CT denoising. <i>Computers in Biology and Medicine</i> , 2022, 149, 106061.	3.9	7
4467	Processing of micro-CT images of granodiorite rock samples using convolutional neural networks (CNN), Part I: Super-resolution enhancement using a 3D CNN. <i>Minerals Engineering</i> , 2022, 188, 107748.	1.8	9
4468	QDL-CMFD: A Quality-independent and deep Learning-based Copy-Move image forgery detection method. <i>Neurocomputing</i> , 2022, 511, 213-236.	3.5	14
4469	An attention mechanism based convolutional network for satellite precipitation downscaling over China. <i>Journal of Hydrology</i> , 2022, 613, 128388.	2.3	16
4470	Robust deep ensemble method for real-world image denoising. <i>Neurocomputing</i> , 2022, 512, 1-14.	3.5	5
4471	Lightweight spatial-channel adaptive coordination of multilevel refinement enhancement network for image reconstruction. <i>Knowledge-Based Systems</i> , 2022, 256, 109824.	4.0	3
4472	Structure preserving loss function for single image super resolution. <i>Displays</i> , 2022, 75, 102285.	2.0	2
4473	A full data augmentation pipeline for small object detection based on generative adversarial networks. <i>Pattern Recognition</i> , 2023, 133, 108998.	5.1	31
4474	Single image super-resolution based on progressive fusion of orientation-aware features. <i>Pattern Recognition</i> , 2023, 133, 109038.	5.1	13

#	ARTICLE	IF	CITATIONS
4475	Deep Learned Singular Residual Network for Super Resolution Reconstruction. Computers, Materials and Continua, 2023, 74, 1123-1137.	1.5	3
4476	LAE-Net: A locally-adaptive embedding network for low-light image enhancement. Pattern Recognition, 2023, 133, 109039.	5.1	23
4477	Single image super-resolution based on directional variance attention network. Pattern Recognition, 2023, 133, 108997.	5.1	24
4478	Review of pixel-level remote sensing image fusion based on deep learning. Information Fusion, 2023, 90, 36-58.	11.7	20
4479	Self-supervised cycle-consistent learning for scale-arbitrary real-world single image super-resolution. Expert Systems With Applications, 2023, 212, 118657.	4.4	8
4480	Real-World Superresolution by Using Deep Degradation Learning. Communications in Computer and Information Science, 2022, , 209-218.	0.4	0
4481	Dual Learning-Based Graph Neural Network for Remote Sensing Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	6
4482	Hierarchical Similarity Learning for Aliasing Suppression Image Super-Resolution. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2759-2771.	7.2	1
4483	Lattice Network for Lightweight Image Restoration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-16.	9.7	8
4484	Multilayer Degradation Representation-Guided Blind Super-Resolution for Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	7
4485	Multi-spectral Dynamic Feature Encoding Network for Image Demoiré-ing. Lecture Notes in Computer Science, 2022, , 151-162.	1.0	0
4486	Image Super-Resolution Via Iterative Refinement. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-14.	9.7	224
4487	Reinforced Swin-Convs Transformer for Simultaneous Underwater Sensing Scene Image Enhancement and Super-resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	17
4488	Cross-Domain Association Mining Based Generative Adversarial Network for Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7770-7783.	2.3	1
4489	An Image Super Resolution Algorithm Using Reparameterization. Lecture Notes in Electrical Engineering, 2022, , 216-224.	0.3	0
4490	Forecasting Fine-Grained Urban Flows Via Spatio-Temporal Contrastive Self-Supervision. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-17.	4.0	10
4491	Brightformer: A Transformer to Brighten the Image. SSRN Electronic Journal, 0, , .	0.4	0
4492	Toward Pixel-Level Precision for Binary Super-Resolution With Mixed Binary Representation. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 3989-4001.	7.2	5

#	ARTICLE	IF	CITATIONS
4493	A Deep Unfolding Method for Satellite Super Resolution. IEEE Transactions on Computational Imaging, 2022, 8, 933-944.	2.6	4
4494	Hyperspectral Pansharpening With Adaptive Feature Modulation-Based Detail Injection Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	2
4495	External-Internal Attention for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	3
4496	Block-Fading Non-Stationary Channel Estimation for MIMO-OFDM Systems via Meta-Learning. IEEE Communications Letters, 2022, 26, 2924-2928.	2.5	3
4497	Multiframe Joint Enhancement for Early Interlaced Videos. IEEE Transactions on Image Processing, 2022, 31, 6282-6294.	6.0	3
4498	ELCNN: A Deep Neural Network for Small Object Defect Detection of Magnetic Tile. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	5
4499	Con-Net: A Consolidated Light-Weight Image Restoration Network. IEEE Transactions on Broadcasting, 2022, 68, 862-875.	2.5	3
4500	Area-Specific Convolutional Neural Networks for Single Image Super-Resolution. IEEE Access, 2022, 10, 104567-104576.	2.6	1
4501	Learning Dynamic Generative Attention for Single Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 8368-8382.	5.6	5
4502	Contrastive Learning for Blind Super-Resolution via A Distortion-Specific Network. IEEE/CAA Journal of Automatica Sinica, 2023, 10, 78-89.	8.5	6
4503	GJTD-LR: A Trainable Grouped Joint Tensor Dictionary With Low-Rank Prior for Single Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	2
4504	Light Field Reconstruction in Angular Domain with Multi-Models Fusion Through Representation Alternate Convolution. SSRN Electronic Journal, 0, , .	0.4	0
4505	Transitional Learning: Exploring the Transition States of Degradation for Blind Super-Resolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-16.	9.7	1
4506	Enhanced Residual Connections Method for Low Resolution Images in Rice Plant Disease Classification. IFIP Advances in Information and Communication Technology, 2022, , 271-284.	0.5	0
4507	Convolutional Graph Thermography for Subsurface Defect Detection in Polymer Composites. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	2.4	4
4508	A Contrastive Learning Transformer for Change Detection in High-Resolution Sar Images. SSRN Electronic Journal, 0, , .	0.4	2
4509	A Deep-Shallow Fusion Network With Multidetail Extractor and Spectral Attention for Hyperspectral Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7539-7555.	2.3	14
4510	A 40-nm 91-mW, 90-fps Learning-Based Full HD Super-Resolution Accelerator. IEEE Journal of Solid-State Circuits, 2023, 58, 520-529.	3.5	0

#	ARTICLE	IF	CITATIONS
4511	WavTrans: Synergizing Wavelet and Cross-Attention Transformer for Multi-contrast MRI Super-Resolution. Lecture Notes in Computer Science, 2022, , 463-473.	1.0	4
4512	DeblurGAN-CNN: Effective Image Denoising and Recognition for Noisy Handwritten Characters. IEEE Access, 2022, 10, 90133-90148.	2.6	18
4513	From Artifact Removal to Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	9
4514	Deep Learning-Aided 6G Wireless Networks: A Comprehensive Survey of Revolutionary PHY Architectures. IEEE Open Journal of the Communications Society, 2022, 3, 1749-1809.	4.4	28
4515	HQ2CL: A High-Quality Class Center Learning System for Deep Face Recognition. IEEE Transactions on Image Processing, 2022, 31, 5359-5370.	6.0	0
4516	Effective Pan-Sharpener by Multiscale Invertible Neural Network and Heterogeneous Task Distilling. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	33
4517	Spatial Information Regularized Tensor Decomposition Framework for Super-Resolution Reconstruction of Medical MRI and Radiographs. IEEE Transactions on Computational Imaging, 2022, 8, 865-878.	2.6	0
4518	Machine Learning in Pansharpening: A benchmark, from shallow to deep networks. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 279-315.	4.9	59
4519	Light-Guided and Cross-Fusion U-Net for Anti-Illumination Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 8436-8449.	5.6	26
4520	SwinIR Transformer Applied for Medical Image Super-Resolution. Procedia Computer Science, 2022, 204, 907-913.	1.2	6
4521	Research on the Application of Artificial Intelligence in the Film Industry. SHS Web of Conferences, 2022, 144, 03002.	0.1	0
4522	High-Resolution Refocusing for Defocused ISAR Images by Complex-Valued Pix2pixHD Network. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
4523	Pyramid Attention "Zero-Shot" Network for Single-Image Superresolution. IEEE Transactions on Network Science and Engineering, 2022, 9, 4028-4039.	4.1	2
4524	Early detection of breast cancer in histopathology images employing convolutional neural network (CNN). AIP Conference Proceedings, 2022, , .	0.3	1
4525	Advanced Generative Adversarial Network for Image Superresolution. Communications in Computer and Information Science, 2022, , 193-208.	0.4	1
4526	A Latent Encoder Coupled Generative Adversarial Network (LE-GAN) for Efficient Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	2.7	10
4527	Underwater Image Enhancement With Hyper-Laplacian Reflectance Priors. IEEE Transactions on Image Processing, 2022, 31, 5442-5455.	6.0	129
4528	Detail-Injection-Model-Inspired Deep Fusion Network for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	6

#	ARTICLE	IF	CITATIONS
4529	Wasserstein Patch Prior for Image Superresolution. IEEE Transactions on Computational Imaging, 2022, 8, 693-704.	2.6	6
4530	A Super-Resolution Flexible Video Coding Solution for Improving Live Streaming Quality. IEEE Transactions on Multimedia, 2023, 25, 6341-6355.	5.2	6
4531	A Complementary Dual-branch Network for Appearance-based Gaze Estimation from Low-resolution Facial Image. IEEE Transactions on Cognitive and Developmental Systems, 2022, , 1-1.	2.6	3
4532	Grouped Spatio-Temporal Alignment Network for Video Super-Resolution. IEEE Signal Processing Letters, 2022, , 1-5.	2.1	0
4533	Hyperspectral and Multispectral Image Fusion Via Self-Supervised Loss and Separable Loss. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	10
4534	Small Lesion Segmentation in Brain MRIs with Subpixel Embedding. Lecture Notes in Computer Science, 2022, , 75-87.	1.0	0
4535	Progressive Interaction-Learning Network for Lightweight Single-Image Super-Resolution in Industrial Applications. IEEE Transactions on Industrial Informatics, 2023, 19, 2183-2191.	7.2	3
4536	A Model-Inspired Approach With Transformers for Hyperspectral Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 7187-7202.	2.3	3
4537	An Efficient Pansharpening Approach Based on Spatial Information and Multi-Layer Fusion. , 2022, , .		0
4538	Transformer-empowered Multi-scale Contextual Matching and Aggregation for Multi-contrast MRI Super-resolution. , 2022, , .		26
4539	Reflash Dropout in Image Super-Resolution. , 2022, , .		19
4540	Memory-augmented Deep Conditional Unfolding Network for Pansharpening. , 2022, , .		14
4541	LAR-SR: A Local Autoregressive Model for Image Super-Resolution. , 2022, , .		7
4542	A Text Attention Network for Spatial Deformation Robust Scene Text Image Super-resolution. , 2022, , .		25
4543	Incremental Cross-view Mutual Distillation for Self-supervised Medical CT Synthesis. , 2022, , .		11
4544	Faithful Extreme Rescaling via Generative Prior Reciprocated Invertible Representations. , 2022, , .		3
4545	InstaFormer: Instance-Aware Image-to-Image Translation with Transformer. , 2022, , .		13
4546	SketchEdit: Mask-Free Local Image Manipulation with Partial Sketches. , 2022, , .		13



#	ARTICLE	IF	CITATIONS
4547	ISNAS-DIP: Image-Specific Neural Architecture Search for Deep Image Prior. , 2022, , .		6
4548	Exemplar-based Pattern Synthesis with Implicit Periodic Field Network. , 2022, , .		6
4549	Maximum Spatial Perturbation Consistency for Unpaired Image-to-Image Translation. , 2022, , .		9
4550	GCFSR: a Generative and Controllable Face Super Resolution Method Without Facial and GAN Priors. , 2022, , .		28
4551	SphereSR: $S^{360}$ Image Super-Resolution with Arbitrary Projection via Continuous Spherical Image Representation. , 2022, , .		16
4552	Texture-based Error Analysis for Image Super-Resolution. , 2022, , .		6
4553	Mutual Information-driven Pan-sharpening. , 2022, , .		36
4554	Task Decoupled Framework for Reference-based Super-Resolution. , 2022, , .		11
4555	Attentive Fine-Grained Structured Sparsity for Image Restoration. , 2022, , .		5
4556	Deep Generalized Unfolding Networks for Image Restoration. , 2022, , .		62
4557	Investigating Tradeoffs in Real-World Video Super-Resolution. , 2022, , .		22
4558	A 3D Convolutional Neural Network with Gradient Guidance for Image Super-Resolution of Late Gadolinium Enhanced Cardiac MRI. , 2022, , .		0
4559	Robust Facial Expression Recognition Based on Dual Branch Multi-feature Learning. , 2022, , .		1
4560	Semi-Simulated Training Data for Multi-Image Super-Resolution. , 2022, , .		0
4561	Online tool wear monitoring by super-resolution based machine vision. Computers in Industry, 2023, 144, 103782.	5.7	16
4562	Performance Analysis of a Chunk-Based Speech Emotion Recognition Model Using RNN. Intelligent Automation and Soft Computing, 2023, 36, 235-248.	1.6	0
4563	Attention-based dual residual network-based for multi-spectral pan-sharpening. International Journal of Remote Sensing, 2022, 43, 4911-4950.	1.3	0
4564	Unsupervised Unpaired Super-Resolution Using an Active Sampling Strategy Based on Edge Detection. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
4565	An Improved Method for Pan-Sharpener Based on Pan-GAN. , 2022, , .		1
4566	Cross-Modality Super-Resolution of Satellite Gravity Data for Geophysical Exploration. , 2022, , .		0
4567	Terahertz Image Super-Resolution Reconstruction Using Unpaired Real-World Images. , 2022, , .		1
4568	Multi-scale Visual Aggregation Residual Network for Super-Resolution. , 2022, , .		1
4569	Perceptual cGAN for MRI Super-resolution. , 2022, , .		4
4570	Remote Sensing Image Super-Resolution Via Attentional Feature Aggregation Generative Adversarial Network. , 2022, , .		1
4571	Edge Guided Learning for Image Super-resolution with Realistic Textures. , 2022, , .		0
4572	Estimation of 4-Km All-Sky Sea Surface Temperature from Thermal Infrared and Passive Microwave Remote Sensing Observations. , 2022, , .		0
4573	Location Aware Super-Resolution for Satellite Data Fusion. , 2022, , .		0
4574	SD-DCRN: SALIENCY DRIVEN DOUBLE-CHANNEL RESIDUAL NETWORK FOR SUPER-RESOLUTION OF REMOTE SENSING IMAGES. , 2022, , .		0
4575	CNN-Enhanced graph attention network for hyperspectral image super-resolution using non-local self-similarity. International Journal of Remote Sensing, 2022, 43, 4810-4835.	1.3	2
4576	Multiple Deep learning Methods for Small and Blurry Volcanic Ash Cloud Detection for Satellite Imagery. , 2022, , .		0
4577	Dynamic Multi-Scale Network for Remote Sensing Image Super-Resolution. , 2022, , .		0
4578	Novel Spatio-Temporal Continuous Sign Language Recognition Using an Attentive Multi-Feature Network. Sensors, 2022, 22, 6452.	2.1	8
4579	Deep Wavelet Frequency Laplacian Pyramid Network for Vehicle Logo Super-Resolution. , 2022, , .		0
4580	A Wavelet-based Progressive Super-Resolution Model. , 2022, , .		0
4581	Rethinking Learning-based Demosaicing, Denoising, and Super-Resolution Pipeline. , 2022, , .		2
4582	DeepHistory: A convolutional neural network for automatic animation of museum paintings. Computer Animation and Virtual Worlds, 0, , .	0.7	2

#	ARTICLE	IF	CITATIONS
4583	Double-Stack Aggregation Network Using a Feature-Travel Strategy for Pansharpener. Remote Sensing, 2022, 14, 4224.	1.8	0
4584	Detection of Nutâ€Bolt Loss in Steel Bridges Using Deep Learning Techniques. Sustainability, 2022, 14, 10837.	1.6	6
4585	Rethinking the Adaptiveness of Conditional Flow A Novel Distribution Adaptation Strategy for Image Super-Resolution. , 2022, , .		0
4586	Single image super-resolution based on multi-scale dense attention network. Soft Computing, 2023, 27, 2981-2992.	2.1	3
4587	Resolution independent person reâ€identification network. IET Computer Vision, 0, , .	1.3	0
4588	A Novel Deep-Learning-Based Enhanced Texture Transformer Network for Reference Image Super-Resolution. Electronics (Switzerland), 2022, 11, 3038.	1.8	1
4589	Machine learning-based image recognition for rural architectural planning and design. Neural Computing and Applications, 0, , .	3.2	4
4590	Multiscale Carbonate Rock Reconstruction Using a Hybrid WGAN-GP and Super-Resolution. , 2022, , .		5
4591	Multimodal Sensors Image Fusion for Higher Resolution Remote Sensing Pan Sharpening. IEEE Sensors Journal, 2022, 22, 18021-18034.	2.4	1
4592	SuperMAP: Deep ultrafast MR relaxometry with joint spatiotemporal undersampling. Magnetic Resonance in Medicine, 2023, 89, 64-76.	1.9	9
4594	Multi-branch aware module with channel shuffle pixel-wise attention for lightweight image super-resolution. Multimedia Systems, 2023, 29, 289-303.	3.0	3
4595	From low to high: cascade network for restoring low-resolution face image via extracting and transforming edge feature. Multimedia Tools and Applications, 0, , .	2.6	1
4596	Deep Learning-Based Automatic Extraction of Cyanobacterial Blooms from Sentinel-2 MSI Satellite Data. Remote Sensing, 2022, 14, 4763.	1.8	10
4597	Cascade neural approximating for few-shot super-resolution photoacoustic angiography. Applied Physics Letters, 2022, 121, .	1.5	5
4598	Hyperspectral image super-resolution employing nonlocal block and hybrid multiscale three-dimensional convolution. Journal of Applied Remote Sensing, 2022, 16, .	0.6	0
4599	Deep-SMOLM: deep learning resolves the 3D orientations and 2D positions of overlapping single molecules with optimal nanoscale resolution. Optics Express, 2022, 30, 36761.	1.7	8
4600	Superâ€Resolution Nearâ€Infrared Fluorescence Microscopy of Singleâ€Walled Carbon Nanotubes Using Deep Learning. Advanced Photonics Research, 2022, 3, .	1.7	4
4601	Extrapolated Speckle-Correlation Imaging. , 2022, 2022, .		2

#	ARTICLE	IF	CITATIONS
4602	Cartoon Image Processing: A Survey. <i>International Journal of Computer Vision</i> , 2022, 130, 2733-2769.	10.9	3
4603	An efficient Industrial Internet of Things video data processing system for protocol identification and quality enhancement. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 0, , .	1.9	1
4604	Dual-IRT-GAN: A defect-aware deep adversarial network to perform super-resolution tasks in infrared thermographic inspection. <i>Composites Part B: Engineering</i> , 2022, 247, 110309.	5.9	8
4605	Super-Resolution Virtual Scene of Flight Simulation Based on Convolutional Neural Networks. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2023, , 138-147.	0.5	0
4606	Inverse design paradigm for fast and accurate prediction of a functional metasurface via deep convolutional neural networks. <i>Optical Materials Express</i> , 2022, 12, 4104.	1.6	2
4607	Deep learning-based super-resolution with feature coordinators preservation for vision-based measurement. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	1
4608	Downscaling atmospheric chemistry simulations with physically consistent deep learning. <i>Geoscientific Model Development</i> , 2022, 15, 6677-6694.	1.3	5
4609	Deep Learning Provides Substantial Improvements to County-Level Fire Weather Forecasting Over the Western United States. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	2
4610	Literature Review on Ship Localization, Classification, and Detection Methods Based on Optical Sensors and Neural Networks. <i>Sensors</i> , 2022, 22, 6879.	2.1	9
4611	MANet: A Network Architecture for Remote Sensing Spatiotemporal Fusion Based on Multiscale and Attention Mechanisms. <i>Remote Sensing</i> , 2022, 14, 4600.	1.8	6
4612	S2-PCM: Super-Resolution Structural Point Cloud Matching for High-Accuracy Video-SAR Image Registration. <i>Remote Sensing</i> , 2022, 14, 4302.	1.8	4
4613	UUGAN: a GAN-based approach towards underwater image enhancement using non-pairwise supervision. <i>International Journal of Machine Learning and Cybernetics</i> , 2023, 14, 725-738.	2.3	3
4614	A practical super-resolution method for multi-degradation remote sensing images with deep convolutional neural networks. <i>Journal of Real-Time Image Processing</i> , 0, , .	2.2	0
4615	Sparse-Based Domain Adaptation Network for OCTA Image Super-Resolution Reconstruction. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 4402-4413.	3.9	4
4616	Review of in situ and real-time monitoring of metal additive manufacturing based on image processing. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 123, 1-20.	1.5	7
4617	An efficient bicubic interpolation implementation for real-time image processing using hybrid computing. <i>Journal of Real-Time Image Processing</i> , 2022, 19, 1211-1223.	2.2	4
4618	Super-Resolution Reconstruction of Single Image Combining Bionic Eagle-Eye and Multi-scale. <i>Neural Processing Letters</i> , 0, , .	2.0	0
4619	A Generative Deep Learning Approach to Stochastic Downscaling of Precipitation Forecasts. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	29

#	ARTICLE	IF	CITATIONS
4620	Single image super-resolution via a ternary attention network. Applied Intelligence, 0, , .	3.3	0
4621	Single image super-resolution using Wasserstein generative adversarial network with gradient penalty. Pattern Recognition Letters, 2022, 163, 32-39.	2.6	6
4622	Delving deep into pixelized face recovery and defense. Neurocomputing, 2022, 513, 233-246.	3.5	0
4623	A comprehensive overview of Deepfake: Generation, detection, datasets, and opportunities. Neurocomputing, 2022, 513, 351-371.	3.5	21
4624	Large Motion Video Super-Resolution with Dual Subnet and Multi-Stage Communicated Upsampling. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 2127-2135.	3.6	13
4627	Single Image Very Deep Super Resolution (SIVDSR) Dehaze. , 2021, , .		0
4628	BayesCap: Bayesian Identity Cap for Calibrated Uncertainty in Frozen Neural Networks. Lecture Notes in Computer Science, 2022, , 299-317.	1.0	4
4629	SR-YOLO: Small Objects Detection Based on Super Resolution. IFIP Advances in Information and Communication Technology, 2022, , 352-362.	0.5	0
4630	Perceptual loss function for generating high-resolution climate data. , 2022, 2, 152-172.		3
4631	Temporal Consistency Learning of Inter-Frames for Video Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 1507-1520.	5.6	3
4632	Reference-Based Image Super-Resolution with Deformable Attention Transformer. Lecture Notes in Computer Science, 2022, , 325-342.	1.0	17
4633	Spatial-Frequency Domain Information Integration for Pan-Sharpener. Lecture Notes in Computer Science, 2022, , 274-291.	1.0	19
4634	Development of the software to improve the accuracy of emotion recognition. AIP Conference Proceedings, 2022, , .	0.3	0
4635	Modified GAN for Natural Occlusion Detection and Inpainting of Raw Footage From Video Surveillance. International Journal of Big Data Intelligence and Applications, 2022, 3, 1-18.	0.8	0
4636	T-Net: Deep Stacked Scale-Iteration Network for Image Dehazing. IEEE Transactions on Multimedia, 2023, 25, 6794-6807.	5.2	4
4637	FADE: Fusing the Assets of Decoder and Encoder for Task-Agnostic Upsampling. Lecture Notes in Computer Science, 2022, , 231-247.	1.0	3
4638	TAPE: Task-Agnostic Prior Embedding for Image Restoration. Lecture Notes in Computer Science, 2022, , 447-464.	1.0	3
4639	Self-supervised Learning for Real-World Super-Resolution from Dual Zoomed Observations. Lecture Notes in Computer Science, 2022, , 610-627.	1.0	7

#	ARTICLE	IF	CITATIONS
4640	Efficient Long-Range Attention Network for Image Super-Resolution. Lecture Notes in Computer Science, 2022, , 649-667.	1.0	76
4641	Metric Learning Based Interactive Modulation for Real-World Super-Resolution. Lecture Notes in Computer Science, 2022, , 723-740.	1.0	11
4642	Cooperated Spectral Low-Rankness Prior and Deep Spatial Prior for HSI Unsupervised Denoising. IEEE Transactions on Image Processing, 2022, 31, 6356-6368.	6.0	30
4643	Quality Assessment of Super-Resolution Images. Advances in Computer Vision and Pattern Recognition, 2022, , 217-242.	0.9	0
4644	TIPS: Text-Induced Pose Synthesis. Lecture Notes in Computer Science, 2022, , 161-178.	1.0	4
4645	Style-Based Attentive Network for Real-World Face Hallucination. Lecture Notes in Computer Science, 2022, , 262-273.	1.0	0
4646	Development of the mobile application for recognizing of road signs. AIP Conference Proceedings, 2022, , .	0.3	0
4647	Teaching Where to Look: Attention Similarity Knowledge Distillation for Low Resolution Face Recognition. Lecture Notes in Computer Science, 2022, , 631-647.	1.0	6
4648	Perception-Distortion Balanced ADMM Optimization for Single-Image Super-Resolution. Lecture Notes in Computer Science, 2022, , 108-125.	1.0	0
4649	Towards Accurate Network Quantization with Equivalent Smooth Regularizer. Lecture Notes in Computer Science, 2022, , 727-742.	1.0	0
4650	Deep Residual Network for Image Super-Resolution Reconstruction. , 2022, , .		2
4651	A novel Deep Learning Scheme for Cooperative Task Allocation of Large-scale UAVs. , 2022, , .		0
4652	Optimized complex object classification model: reconstructing the ISAR image of a hypersonic vehicle covered with a plasma sheath using a U-WGAN-GP framework. International Journal of Remote Sensing, 2022, 43, 5306-5323.	1.3	1
4653	Research on CT Image Super-resolution Reconstruction with Multi-branch Fusion Network. , 2022, , .		0
4654	Deep Learning Approach to the Quality Restoration for JPEG Images. , 2022, , .		0
4655	Image Super-Resolution Reconstruction of Pancreatic Carcinoma Based on Edge Repair Generative Adversarial Network. , 2022, , .		0
4656	Iterative Dual CNNs for Image Deblurring. Mathematics, 2022, 10, 3891.	1.1	2
4657	Enhancement of license plate recognition performance using Xception with Mish activation function. Multimedia Tools and Applications, 2023, 82, 16793-16815.	2.6	11

#	ARTICLE	IF	CITATIONS
4658	Edge-Focus Thermal Image Super-Resolution using Generative Adversarial Network. , 2022, , .		2
4659	Speckle denoising of optical coherence tomography image using residual encoderâ€“decoder CycleGAN. Signal, Image and Video Processing, 2023, 17, 1521-1533.	1.7	1
4660	Deep Learning-Based Pedestrian Detection in Autonomous Vehicles: Substantial Issues and Challenges. Electronics (Switzerland), 2022, 11, 3551.	1.8	24
4661	Rethinking Super-Resolution as Text-Guided Details Generation. , 2022, , .		0
4662	Extreme-scale Talking-Face Video Upsampling with Audio-Visual Priors. , 2022, , .		0
4663	Ocular Biometrics with Low-Resolution Images Based on Ocular Super-Resolution CycleGAN. Mathematics, 2022, 10, 3818.	1.1	3
4664	A Review of Image Super-Resolution Approaches Based on Deep Learning and Applications in Remote Sensing. Remote Sensing, 2022, 14, 5423.	1.8	28
4665	An enhanced multiscale generation and depth-perceptual loss-based super-resolution network for prostate ultrasound images. Measurement Science and Technology, 2023, 34, 024002.	1.4	3
4666	Multi-Thread AI Cameras Using High-Speed Active Vision System. Journal of Robotics and Mechatronics, 2022, 34, 1053-1062.	0.5	0
4667	End-to-End Moving Target Indication for Airborne Radar Using Deep Learning. Remote Sensing, 2022, 14, 5354.	1.8	4
4668	Enhancing feature information mining network for image super-resolution. Applied Intelligence, 0, , .	3.3	0
4669	Efficient Self-Calibrated Convolution for Real-Time Image Super-Resolution. , 2022, , .		1
4670	Reading and Writing: Discriminative and Generative Modeling for Self-Supervised Text Recognition. , 2022, , .		18
4671	The Influence of Image Degradation on Hyperspectral Image Classification. Remote Sensing, 2022, 14, 5199.	1.8	6
4672	Super-Resolving Methodology for Noisy Unpaired Datasets. Sensors, 2022, 22, 8003.	2.1	0
4673	FMNet: Frequency-Aware Modulation Network for SDR-to-HDR Translation. , 2022, , .		6
4674	Multi-scale adaptive weighted network for polarization computational imaging super-resolution. Applied Physics B: Lasers and Optics, 2022, 128, .	1.1	2
4675	Reservoir Computing-Based Design of ZnO Memristor-Type Digital Identification Circuits. Micromachines, 2022, 13, 1700.	1.4	1

#	ARTICLE	IF	CITATIONS
4676	Pedestrian detection using a translation-invariant wavelet residual dense super-resolution. Optics Express, 2022, 30, 41279.	1.7	4
4677	Image Restoration Using Probability-Inducing Nuclear Norm Minimization. , 2022, , .		0
4678	Adaptive Detail Injection-Based Feature Pyramid Network for Pan-Sharpening. , 2022, , .		1
4679	A Noise Preserving Sharpening Filter for CT Image Enhancement. , 2022, , .		0
4680	Downsampling Based Light Field Video Coding with Restoration Network Using Joint Spatio-Angular and Epipolar Information. , 2022, , .		2
4681	Perception-Distortion Trade-Off in the SR Space Spanned by Flow Models. , 2022, , .		0
4682	Deep dilated CNN based image denoising. International Journal of Information Technology (Singapore), 2023, 15, 137-148.	1.8	4
4683	Low-Complexity Scaler Based on Convolutional Neural Networks for Adaptive Video Streaming. , 2022, , .		0
4684	Non-Smooth Energy Dissipating Networks. , 2022, , .		0
4685	Deep USRNet Reconstruction Method Based on Combined Attention Mechanism. Sustainability, 2022, 14, 14151.	1.6	1
4686	Efficient learning representation of noise-reduced foam effects with convolutional denoising networks. PLoS ONE, 2022, 17, e0275117.	1.1	0
4687	Distilling Resolution-robust Identity Knowledge for Texture-Enhanced Face Hallucination. , 2022, , .		1
4688	Adaptively Learning Low-high Frequency Information Integration for Pan-sharpening. , 2022, , .		15
4689	Cross-Modality High-Frequency Transformer for MR Image Super-Resolution. , 2022, , .		14
4690	CUR Transformer: A Convolutional Unbiased Regional Transformer for Image Denoising. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-22.	3.0	4
4691	Invertible Rescaling Network and Its Extensions. International Journal of Computer Vision, 2023, 131, 134-159.	10.9	5
4692	Face photoâ€œsketch synthesis via intra-domain enhancement. Knowledge-Based Systems, 2023, 259, 110026.	4.0	2
4693	Deep locally linear embedding network. Information Sciences, 2022, , .	4.0	1



#	ARTICLE	IF	CITATIONS
4694	SAR Image Super-Resolution Reconstruction Based on Full-Resolution Discrimination. , 2022, , .		0
4695	Dynamic convolutional capsule network for In-loop filtering in HEVC video codec. IET Image Processing, 0, , .	1.4	0
4696	Geometry-Aware Reference Synthesis for Multi-View Image Super-Resolution. , 2022, , .		1
4697	Memory-Augmented Deep Unfolding Network for Guided Image Super-resolution. International Journal of Computer Vision, 2023, 131, 215-242.	10.9	19
4698	Adaptive Local Implicit Image Function for Arbitrary-Scale Super-Resolution. , 2022, , .		4
4699	Efficient Single-image Super-resolution Using Dual path Connections with Multiple scale Learning. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-21.	3.0	1
4700	Light field reconstruction in angular domain with multi-models fusion through representation alternate convolution. Optics Express, 2022, 30, 42224.	1.7	0
4701	Deep Learning for Image Enhancement and Correction in Magnetic Resonance Imaging—State-of-the-Art and Challenges. Journal of Digital Imaging, 2023, 36, 204-230.	1.6	30
4702	Keep Clear of the Edges : An Empirical Study of Artificial Intelligence Workload Performance and Resource Footprint on Edge Devices. , 2022, , .		1
4703	Super resolution reconstruction of digital core image based on transfer learning. Energy Reports, 2022, 8, 87-94.	2.5	2
4704	Contour enhanced image super-resolution. Journal of Visual Communication and Image Representation, 2022, 89, 103659.	1.7	1
4705	DPAFNet: A Multistage Dense-Parallel Attention Fusion Network for Pansharpening. Remote Sensing, 2022, 14, 5539.	1.8	2
4706	A Fast Adaptive Online Gradient Descent Algorithm in Over-Parameterized Neural Networks. Neural Processing Letters, 0, , .	2.0	0
4707	Single underwater image enhancement based on the reconstruction from gradients. Multimedia Tools and Applications, 0, , .	2.6	0
4708	A Super-resolution Guided Network for Improving Automated Thyroid Nodule Segmentation. Computer Methods and Programs in Biomedicine, 2022, 227, 107186.	2.6	12
4709	P2Sharpen: A progressive pansharpening network with deep spectral transformation. Information Fusion, 2023, 91, 103-122.	11.7	18
4710	UPanGAN: Unsupervised pansharpening based on the spectral and spatial loss constrained Generative Adversarial Network. Information Fusion, 2023, 91, 31-46.	11.7	18
4711	Image super-resolution: A comprehensive review, recent trends, challenges and applications. Information Fusion, 2023, 91, 230-260.	11.7	31

#	ARTICLE	IF	CITATIONS
4713	A Spatial-“Spectral Dual-Optimization Model-Driven Deep Network for Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	14
4714	Transformer With Double Enhancement for Low-Dose CT Denoising. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 4660-4671.	3.9	4
4715	Unsupervised MRI Super Resolution Using Deep External Learning and Guided Residual Dense Network With Multimodal Image Priors. IEEE Transactions on Emerging Topics in Computational Intelligence, 2023, 7, 426-435.	3.4	2
4716	Learning Enriched Features for Image Super Resolution. IEEE Access, 2022, 10, 113583-113597.	2.6	0
4717	Large-Factor Super-Resolution of Remote Sensing Images With Spectra-Guided Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	2.7	5
4718	Multispectral Pansharpening Based on Multisequence Convolutional Recurrent Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 9482-9496.	2.3	0
4719	Cross-Guided Pyramid Attention-Based Residual Hyperdense Network for Hyperspectral Image Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	2
4720	Multilevel Progressive Network With Nonlocal Channel Attention for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	3
4721	Recurrent Interaction Network for Stereoscopic Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 2048-2060.	5.6	0
4722	Machine Learning-Based Early Skip Decision for Intra Subpartition Prediction in VVC. IEEE Access, 2022, 10, 111052-111065.	2.6	7
4723	Nested Multi-Axis Learning Network for Single Image Super-Resolution. Lecture Notes in Computer Science, 2022, , 490-503.	1.0	2
4724	A Dual-Channel Dehaze-Net for Single Image Dehazing in Visual Internet of Things Using PYNQ-Z2 Board. IEEE Transactions on Automation Science and Engineering, 2024, 21, 305-319.	3.4	11
4725	DDistill-SR: Reparameterized Dynamic Distillation Network for Lightweight Image Super-Resolution. IEEE Transactions on Multimedia, 2023, 25, 7222-7234.	5.2	7
4726	Systematic Review of Advanced AI Methods for Improving Healthcare Data Quality in Post COVID-19 Era. IEEE Reviews in Biomedical Engineering, 2023, 16, 53-69.	13.1	8
4727	Unsupervised Synthetic Acoustic Image Generation for Audio-Visual Scene Understanding. IEEE Transactions on Image Processing, 2022, 31, 7102-7115.	6.0	2
4728	Improving Generalization by Learning Geometry-Dependent and Physics-Based Reconstruction of Image Sequences. IEEE Transactions on Medical Imaging, 2022, , 1-1.	5.4	0
4729	Frequency Domain Based Learning with Transformer for Underwater Image Restoration. Lecture Notes in Computer Science, 2022, , 218-232.	1.0	2
4730	Restore Globally, Refine Locally: A Mask-Guided Scheme to Accelerate Super-Resolution Networks. Lecture Notes in Computer Science, 2022, , 74-91.	1.0	3

#	ARTICLE	IF	CITATIONS
4731	A Group-Based Embedding Learning and Integration Network for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	6
4732	ARM: Any-Time Super-Resolution Method. Lecture Notes in Computer Science, 2022, , 254-270.	1.0	5
4733	Memory-Augmented Model-Driven Network for Image Sharpening. Lecture Notes in Computer Science, 2022, , 306-322.	1.0	2
4734	CADyQ: Content-Aware Dynamic Quantization for Image Super-Resolution. Lecture Notes in Computer Science, 2022, , 367-383.	1.0	5
4735	KXNet: A Model-Driven Deep Neural Network for Blind Super-Resolution. Lecture Notes in Computer Science, 2022, , 235-253.	1.0	7
4736	Super-Resolution by Predicting Offsets: An Ultra-Efficient Super-Resolution Network for Rasterized Images. Lecture Notes in Computer Science, 2022, , 583-598.	1.0	1
4737	Meta-learning for computer vision. , 2023, , 91-208.		0
4738	Shrinking lakes of rift valley system in southern Tibet: Is it the climate?. Science of the Total Environment, 2023, 858, 160016.	3.9	1
4739	Visible and Infrared Image Fusion Framework based on RetinaNet for Marine Environment. , 2019, , .		5
4740	SVD based Image Actual Resolution Estimation. , 2022, , .		0
4741	A Real Time Super Resolution Accelerator with Tilted Layer Fusion. , 2022, , .		2
4742	TAGAN: Texture and Attention Guided Generative Adversarial Network for Image Super Resolution. , 2022, , .		0
4743	DSegAN: A Deep Light-weight Segmentation-based Attention Network for Image Restoration. , 2022, , .		1
4744	Image Denoising Method and System Based on Enhanced Deep Dilated Convolutional Neural Network. , 2022, , .		0
4745	Image Super-resolution Algorithm Based on Dual Regression Networks with Cross-scale Non-local Attention Mechanisms. , 2022, , .		0
4746	Applied Single Image Super-Resolution for Aerial Imagery Enhancement. , 2022, , .		0
4747	Multi-Tier Kernel for Disease Prediction using Texture Analysis with MR Images. , 2022, , .		1
4749	Video Super-Resolution Method Using Deformable Convolution-Based Alignment Network. Sensors, 2022, 22, 8476.	2.1	2

#	ARTICLE	IF	CITATIONS
4750	ADAS: <u>A</u> High Computational Utilization <u>D</u> ynamic Reconfigurable Hardware <u>A</u> ccelerator for <u>S</u> uper Resolution. ACM Transactions on Reconfigurable Technology and Systems, 2023, 16, 1-22.	1.9	1
4751	A Lightweight Multi-Level Information Network for Multispectral and Hyperspectral Image Fusion. Remote Sensing, 2022, 14, 5600.	1.8	0
4752	Quantitative reconstruction of defects in multi-layered bonded composites using fully convolutional network-based ultrasonic inversion. Journal of Sound and Vibration, 2023, 542, 117418.	2.1	11
4753	Generating High-Resolution CT Slices from Two Image Series Using Deep-Learning-Based Resolution Enhancement Methods. Diagnostics, 2022, 12, 2725.	1.3	2
4754	Generating high-resolution climatological precipitation data using SinGAN. Big Earth Data, 2023, 7, 81-100.	2.0	1
4755	Artificial Intelligenceâ€™Driven Ultra-Fast Superresolution MRI. Investigative Radiology, 2023, 58, 28-42.	3.5	28
4756	Dictionary learning-based image super-resolution for multimedia devices. Multimedia Tools and Applications, 0, , .	2.6	0
4757	Super-resolving Compressed Images via Parallel and Series Integration of Artefacts Removal and Resolution Enhancement. Signal Processing, 2022, , 108861.	2.1	0
4758	Cloud environment-based super resolution application for thermal images using the new approach TSRGAN+ model. Multimedia Tools and Applications, 0, , .	2.6	1
4759	Progress in multi-object detection models: a comprehensive survey. Multimedia Tools and Applications, 0, , .	2.6	2
4760	Accurate super-resolution with residual network and cross stage partial network for sonar images. , 2022, , .		0
4761	Super-resolution reconstruction of remote sensing images based on convolutional neural networks. , 2022, , .		0
4762	A Denoisable Super Resolution Method: A Way to Improve Structure from Motionâ€™s Performance against CMOSâ€™s Noise. , 2022, , .		0
4763	Super-resolution of Sentinel-2 images using Wasserstein GAN. Remote Sensing Letters, 2022, 13, 1194-1202.	0.6	1
4764	Super-resolution reconstruction of remote sensing images based on Swin Transformer fusion attention network. , 2022, , .		1
4765	A review on monocular tracking and mapping: from model-based to data-driven methods. Visual Computer, 0, , .	2.5	1
4767	Artificial intelligence for the metaverse: A survey. Engineering Applications of Artificial Intelligence, 2023, 117, 105581.	4.3	164
4768	Structured Deep Unfolding Network for Optical Remote Sensing Image Super-Resolution. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1

#	ARTICLE	IF	CITATIONS
4769	Ensemble Image Super-Resolution CNNs for Small Data and Diverse Compressive Models. Lecture Notes in Computer Science, 2022, , 89-102.	1.0	0
4770	An Efficient Dual Spatial Spectral Fusion Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	3
4771	Implicit Neural Representation Learning for Hyperspectral Image Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-12.	2.7	2
4772	Robust Face Hallucination Algorithm Using Motion Blur Embedded Nearest Proximate Patch Representation. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-10.	2.4	10
4773	Method for Computer-Generated Hologram Compression with Attention Based Quantum Inspired Neural Network. , 2022, , .		0
4774	Ultralight-Weight Three-Prior Convolutional Neural Network for Single Image Super Resolution. IEEE Transactions on Artificial Intelligence, 2023, 4, 1724-1738.	3.4	1
4775	Super-resolution reconstruction of medical image via depth residual network. , 2023, , .		0
4776	Hierarchical spatio-spectral fusion for hyperspectral image super resolution via sparse representation and pre-trained deep model. Knowledge-Based Systems, 2023, 260, 110170.	4.0	3
4777	Infrared image super-resolution reconstruction based on high-frequency prior convolutional neural network. , 2023, , .		0
4778	BrightFormer: A transformer to brighten the image. Computers and Graphics, 2023, 110, 49-57.	1.4	2
4779	R2RNet: Low-light image enhancement via Real-low to Real-normal Network. Journal of Visual Communication and Image Representation, 2023, 90, 103712.	1.7	50
4780	A deep recursive multi-scale feature fusion network for image super-resolution. Journal of Visual Communication and Image Representation, 2023, 90, 103730.	1.7	9
4781	Channel attention generative adversarial network for super-resolution of glioma magnetic resonance image. Computer Methods and Programs in Biomedicine, 2023, 229, 107255.	2.6	4
4782	Madhubani Art Classification using transfer learning with deep feature fusion and decision fusion based techniques. Engineering Applications of Artificial Intelligence, 2023, 119, 105734.	4.3	3
4783	TMSO-Net: Texture adaptive multi-scale observation for light field image depth estimation. Journal of Visual Communication and Image Representation, 2023, 90, 103731.	1.7	28
4784	RFCNet: Remote Sensing Image Super-Resolution Using Residual Feature Calibration Network. Tsinghua Science and Technology, 2023, 28, 475-485.	4.1	0
4785	MMSRNet: Pathological image super-resolution by multi-task and multi-scale learning. Biomedical Signal Processing and Control, 2023, 81, 104428.	3.5	1
4786	Deep learning-based computed tomographic image super-resolution via wavelet embedding. Radiation Physics and Chemistry, 2023, 205, 110718.	1.4	3

#	ARTICLE	IF	CITATIONS
4787	A Deep Framework for Hyperspectral Image Fusion between Different Satellites. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-16.	9.7	4
4788	An Arbitrary Scale Super-Resolution Approach for 3D MR Images via Implicit Neural Representation. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 1004-1015.	3.9	10
4789	Deep Spatial Interpolation of Rain Field for U.K. Satellite Networks. IEEE Transactions on Antennas and Propagation, 2023, 71, 1793-1803.	3.1	3
4790	Adaptive Dual-Path Collaborative Learning for PAN and MS Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	2
4791	Convolution-Embedded Vision Transformer With Elastic Positional Encoding for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	2.7	5
4792	DenSE SwinHDR: SDRTV to HDRTV Conversion using Densely Connected Swin Transformer with Squeeze and Excitation Module. IEEE Access, 2022, , 1-1.	2.6	0
4793	Low Light Image Enhancement Based on Multi-Scale Network Fusion. IEEE Access, 2022, 10, 127853-127862.	2.6	1
4794	An Efficient Cross-Modality Self-Calibrated Network for Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	2
4795	Differentiable Neural Architecture Search for Extremely Lightweight Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 2672-2682.	5.6	4
4796	Research on Super Resolution Reconstruction Method of Visual Image Based on GAN. Computer Science and Application, 2022, 12, 2804-2812.	0.0	0
4797	Enhancement of cone beam CT image registration by super-resolution pre-processing algorithm. Mathematical Biosciences and Engineering, 2022, 20, 4403-4420.	1.0	0
4798	Reference-based Image and Video Super-Resolution via $C^2$ -Matching. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-14.	9.7	2
4799	Unrolled Variational Bayesian Algorithm for Image Blind Deconvolution. IEEE Transactions on Image Processing, 2023, 32, 430-445.	6.0	2
4800	Deep Learning Based Super-Resolution for Medical Volume Visualization with Direct Volume Rendering. Lecture Notes in Computer Science, 2022, , 103-114.	1.0	1
4801	Different Techniques of Image SR Using Deep Learning: A Review. IEEE Sensors Journal, 2023, 23, 1724-1733.	2.4	3
4802	Unsupervised Denoising for Super-Resolution (UDSR) of Real-World Images. IEEE Access, 2022, 10, 122329-122346.	2.6	0
4803	Super-Resolution Reconstruction of Brain MR Images Using Pseudo-3D Convolutional Network. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 208-216.	0.2	0
4804	Multi-Scale Semi-Coupled Convolutional Sparse Coding for the Super-Resolution Reconstruction of Remote Sensing Image. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 382-391.	0.2	0

#	ARTICLE	IF	CITATIONS
4805	A Comprehensive Survey and Outlook for Cross-Resolution Person Re-Identification. , 2022, , .		0
4806	Inverted N-Type Lightweight Network Based on Back Projection for Image Super-Resolution Reconstruction. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 923-932.	0.2	0
4807	General Image Fast Encryption Algorithm for Deep Learning Compression and Reconstruction. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 913-922.	0.2	0
4808	Rational Polynomial Image Magnification Constrained by Feature. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 1047-1057.	0.2	0
4809	Orthoimage Super-Resolution via Deep Convolutional Neural Networks. , 2022, , .		0
4810	A Face Structure Attention Network for Face Super-Resolution. , 2022, , .		0
4811	Feature Fusion Super Resolution Network with Gradient Guidance. , 2022, , .		0
4812	Nonuniform illumination correction for underwater images through a pseudo-siamese network. , 2022, , .		1
4813	Convolutional Neural Network Modelling for MODIS Land Surface Temperature Super-Resolution. , 2022, , .		3
4814	Context Feature Guided Network for Image Super-resolution. , 2022, , .		1
4815	Hybrid Adaptive Enhanced Network for Single Image Super Resolution. , 2022, , .		0
4816	PyNet-V2 Mobile: Efficient On-Device Photo Processing With Neural Networks. , 2022, , .		9
4817	A statistically constrained internal method for single image super-resolution. , 2022, , .		1
4818	Adversarial Attack on Semantic Segmentation Preprocessed with Super Resolution. , 2022, , .		1
4819	Coarse-to-fine Face Depth Super-Resolution with Attentive Feature Selection. , 2022, , .		0
4820	FRISPEE: FRI-Based Single Image Super-Resolution with Deep Recursive Residual Network. , 2022, , .		0
4821	DeepSen3: Deep Multi-Scale Learning Model For Spatial-Spectral Fusion Of Sentinel-2 And Sentinel-3 Remote Sensing Images. , 2022, , .		1
4822	An Enhanced Video Coding Technique Leveraging on Edge Aware Motion Modeling and Frame Super Resolution. , 2022, , .		2



#	ARTICLE	IF	CITATIONS
4823	Theoretical derivation of super-resolution sub-image stitching based on method of Lagrangian multipliers. , 2022, , .		0
4824	A Gated Deep Model for Single Image Super-Resolution Reconstruction. , 2022, , .		1
4825	Trans-GAN network for image super-resolution reconstruction. , 2022, , .		0
4826	Enhanced integral imaging 3D depth map by using SRCNN. , 2022, , .		0
4827	Research on Image Information Restoration Algorithm of Printing Micro Dots Based on GAN. , 2022, , .		0
4828	Toward Detection of Small Objects Using Deep Learning Methods: A Review. , 2022, , .		1
4829	Deep sparse representation for Super-Resolution Image Reconstruction. , 2022, , .		0
4830	Research on Underwater Image Enhancement Algorithm Based on SRGAN. , 2022, , .		0
4831	Large-Scale Blind Face Super-Resolution via Edge Guided Frequency Aware Generative Facial Prior Networks. , 2022, , .		1
4832	Dual Camera Based High Spatio-Temporal Resolution Video Generation For Wide Area Surveillance. , 2022, , .		0
4833	Performance Analysis of JPEG XR with Deep Learning-Based Image Super-Resolution. , 2022, , .		0
4834	Epistemic-Uncertainty-Based Divide-and-Conquer Network for Single-Image Super-Resolution. Electronics (Switzerland), 2022, 11, 3809.	1.8	0
4835	Super-resolution reconstruction of face images based on iterative upsampling and downsampling layers. , 2022, , .		0
4836	MLWAN: Multi-Scale Learning Wavelet Attention Module Network for Image Super Resolution. Sensors, 2022, 22, 9110.	2.1	0
4837	Multi-layer Wavelet Transformations for Image Super-Resolution: Applications to Voxel-Based Deep Learning and Areal Density Maps of Carbon Nanotube Sheets. Advances in Intelligent Systems and Computing, 2023, , 339-359.	0.5	0
4838	Deep Network for Extremely Low-Resolution Human Action Recognition. , 2022, , .		0
4839	Single image super-resolution based on sparse representation using edge-preserving regularization and a low-rank constraint. IET Image Processing, 0, , .	1.4	0
4840	Pixel-level self-paced adversarial network with multiple attention in single image super-resolution. Signal, Image and Video Processing, 2023, 17, 1863-1872.	1.7	1



#	ARTICLE	IF	CITATIONS
4841	LoRa-Powered Energy-Efficient Object Detection Mechanism in Edge Computing Nodes. , 2022, , .		0
4842	Lightweight Multi-Attention Fusion Network for Image Super-Resolution. , 2022, 2, 13-19.		1
4843	A super-resolution image reconstruction method based on generative adversarial network. , 2022, , .		0
4844	Critical Review on Deep Learning and Smart Technologies for Image Super-Resolution. , 2022, , .		0
4845	A Deep Learning Approach to Upscaling "Low-Quality" MR Images: An In Silico Comparison Study Based on the UNet Framework. Applied Sciences (Switzerland), 2022, 12, 11758.	1.3	4
4846	MCSNet: Multi-Channel Sharing Network for Single Image Super-Resolution. , 2022, , .		0
4847	Convolutional Neural Network-Based ECG-Assisted Diagnosis for Coal Workers. International Journal of Environmental Research and Public Health, 2023, 20, 9.	1.2	0
4848	Super-Resolution Swin Transformer and Attention Network for Medical CT Imaging. BioMed Research International, 2022, 2022, 1-8.	0.9	3
4849	Boundary equilibrium SR: effective loss functions for single image super-resolution. Applied Intelligence, 0, , .	3.3	1
4850	Model-based deep learning for fiber bundle infrared image restoration. Defence Technology, 2022, , .	2.1	1
4851	Digital advancements in smart materials design and multifunctional coating manufacturing. Physics Open, 2023, 14, 100133.	0.7	4
4853	Image Super-Resolution Network Based on Feature Fusion Attention. Journal of Sensors, 2022, 2022, 1-14.	0.6	1
4854	DiTBN: Detail Injection-Based Two-Branch Network for Pansharpening of Remote Sensing Images. Remote Sensing, 2022, 14, 6120.	1.8	1
4855	RefinePose: Towards More Refined Human Pose Estimation. Electronics (Switzerland), 2022, 11, 4060.	1.8	2
4856	Super-Resolution Reconstruction Algorithm for Terahertz Imaging below the Diffraction Limited. Chinese Physics B, 0, , .	0.7	0
4857	Internet Video Delivery Improved by Super-Resolution with GAN. Future Internet, 2022, 14, 364.	2.4	2
4858	Accurate and lightweight MRI super-resolution via multi-scale bidirectional fusion attention network. PLoS ONE, 2022, 17, e0277862.	1.1	1
4859	Deep fusion prior for plenoptic super-resolution all-in-focus imaging. Optical Engineering, 2022, 61, .	0.5	0

#	ARTICLE	IF	CITATIONS
4860	Generative Adversarial Network-Based Improved Progressive Approach for Image Super-Resolution: ImProSRGAN. Lecture Notes in Electrical Engineering, 2023, , 291-305.	0.3	0
4861	SRODNet: Object Detection Network Based on Super Resolution for Autonomous Vehicles. Remote Sensing, 2022, 14, 6270.	1.8	2
4862	Advanced RetinexNet: A fully convolutional network for low-light image enhancement. Signal Processing: Image Communication, 2023, 112, 116916.	1.8	7
4863	Thermal image super-resolution via multi-path residual attention network. Signal, Image and Video Processing, 2023, 17, 2073-2081.	1.7	4
4864	ArithFusion: An Arithmetic Deep Model for Temporal Remote Sensing Image Fusion. Remote Sensing, 2022, 14, 6160.	1.8	0
4865	Application of deblur technology for improving the clarity of digital subtractive angiography. Interventional Neuroradiology, 0, , 159101992211431.	0.7	1
4866	Satellite Image Super-Resolution by 2D RRDB and Edge-Enhanced Generative Adversarial Network. Applied Sciences (Switzerland), 2022, 12, 12311.	1.3	7
4867	MPFINet: A Multilevel Parallel Feature Injection Network for Panchromatic and Multispectral Image Fusion. Remote Sensing, 2022, 14, 6118.	1.8	0
4868	A Deep-Learning-Based Bridge Damaged Object Automatic Detection Model Using a Bridge Member Model Combination Framework. Applied Sciences (Switzerland), 2022, 12, 12868.	1.3	2
4869	Wavelet Detail Perception Network for Single Image Super-Resolution. Pattern Recognition Letters, 2022, , .	2.6	0
4870	A theoretical study of a bilateral term with a tensor-based fourth-order PDE for image super-resolution. Advances in Computational Mathematics, 2022, 48, .	0.8	1
4871	MCTSR: A super-resolution method for defects in gas-insulated switchgear X-ray images based on multi-scale contextual transformers. High Voltage, 2023, 8, 504-513.	2.7	1
4872	Deep learning-based scalable and robust channel estimator for wireless cellular networks. ETRI Journal, 2022, 44, 915-924.	1.2	2
4873	Facial mask attention network for identity-aware face super-resolution. Neural Computing and Applications, 2023, 35, 8243-8257.	3.2	0
4874	Semi-supervised Learning for Mars Imagery Classification and Segmentation. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-23.	3.0	2
4875	DGRN: Image super-resolution with dual gradient regression guidance. Computers and Graphics, 2023, 110, 141-150.	1.4	2
4880	Modality-Aware Feature Integration for Pan-Sharpening. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-12.	2.7	3
4881	Bayesian Deep Learning for Image Reconstruction: From structured sparsity to uncertainty estimation. IEEE Signal Processing Magazine, 2023, 40, 73-84.	4.6	1

#	ARTICLE	IF	CITATIONS
4882	Denoising using Noise2Void for low-field magnetic resonance imaging: A phantom study. <i>Journal of Medical Physics</i> , 2022, 47, 387.	0.1	1
4883	Dense Connected Super-Resolution Networks Based on Dual Learning. <i>Computer Science and Application</i> , 2022, 12, 2844-2852.	0.0	0
4884	Lightweight image super-resolution with group-convolutional feature enhanced distillation network. <i>International Journal of Machine Learning and Cybernetics</i> , 0, , .	2.3	0
4885	Aggregate-and-Excite Network for Image Super-Resolution. <i>Smart Innovation, Systems and Technologies</i> , 2023, , 395-405.	0.5	0
4886	Thermal UAV Image Super-Resolution Guided by Multiple Visible Cues. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2023, 61, 1-14.	2.7	3
4887	Deep-Learning Electron Diffractive Imaging. <i>Physical Review Letters</i> , 2023, 130, .	2.9	9
4890	Spectralâ€”Temporal Fusion of Satellite Images via an End-to-End Two-Stream Attention With an Effective Reconstruction Network. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2023, 16, 1308-1320.	2.3	2
4891	A Super-resolution-based Approach for the Detection of Covidâ€”19 Infection From Chest X-ray Images. <i>Resonance - Journal of Science Education</i> , 2023, 28, 127-148.	0.2	0
4892	Zero-Shot Blind Learning for Single-Image Super-Resolution. <i>Information (Switzerland)</i> , 2023, 14, 33.	1.7	0
4893	Automatic Inspection of Bridge Bolts Using Unmanned Aerial Vision and Adaptive Scale Unification-Based Deep Learning. <i>Remote Sensing</i> , 2023, 15, 328.	1.8	5
4894	Localized Super Resolution for Foreground Images Using U-Net and MR-CNN. <i>Lecture Notes in Electrical Engineering</i> , 2023, , 25-39.	0.3	0
4895	Physics-Inspired Compressive Sensing: Beyond deep unrolling. <i>IEEE Signal Processing Magazine</i> , 2023, 40, 58-72.	4.6	13
4896	Multi-scale detail injection-based improved generative adversarial networks for pansharpening. <i>International Journal of Remote Sensing</i> , 2023, 44, 248-275.	1.3	0
4897	RCA-CycleGAN: Unsupervised underwater image enhancement using Red Channel attention optimized CycleGAN. <i>Displays</i> , 2023, 76, 102359.	2.0	7
4898	Lightweight Stepless Super-Resolution of Remote Sensing Images via Saliency-Aware Dynamic Routing Strategy. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2023, 61, 1-17.	2.7	1
4899	AI Super-Resolution: Application to Turbulence and Combustion. <i>Lecture Notes in Energy</i> , 2023, , 279-305.	0.2	1
4900	Single Image Super-Resolution Reconstruction with Preservation of Structure and Texture Details. <i>Mathematics</i> , 2023, 11, 216.	1.1	3
4901	Chest X-ray Image Super-Resolution via Deep Contrast Consistent Feature Network. <i>Communications in Computer and Information Science</i> , 2023, , 78-90.	0.4	0

#	ARTICLE	IF	CITATIONS
4902	(Retracted) Super-resolution generative adversarial networks using autoencoder reduce dimension. Journal of Electronic Imaging, 2023, 32, .	0.5	1
4903	AIF-LFNet: All-in-Focus Light Field Super-Resolution Method Considering the Depth-Varying Defocus. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 3976-3988.	5.6	4
4904	Blind Superresolution of Satellite Videos by Ghost Module-Based Convolutional Networks. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-19.	2.7	1
4905	Supervised denoising of diffusion-weighted magnetic resonance images using a convolutional neural network and transfer learning. Biocybernetics and Biomedical Engineering, 2023, 43, 206-232.	3.3	7
4906	Deep Unfolding Network for Multi-Band Images Synchronous Fusion. IEEE Access, 2023, 11, 25189-25202.	2.6	0
4907	Skip-Concatenated Image Super-Resolution Network for Mobile Devices. IEEE Access, 2023, 11, 4972-4982.	2.6	3
4908	Deep Learning to Analyze Sliding Drops. Langmuir, 0, , .	1.6	0
4909	A Global-Information-Constrained Deep Learning Network for Digital Elevation Model Super-Resolution. Remote Sensing, 2023, 15, 305.	1.8	6
4910	IRMIRS: Inception-ResNet-Based Network for MRI Image Super-Resolution. CMES - Computer Modeling in Engineering and Sciences, 2023, 136, 1121-1142.	0.8	0
4911	Downscaling Surface Albedo to Higher Spatial Resolutions With an Image Super-Resolution Approach and PROBA-V Satellite Images. IEEE Access, 2023, 11, 5558-5577.	2.6	0
4912	DASRSNet: Multitask Domain Adaptation for Super-Resolution-Aided Semantic Segmentation of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-18.	2.7	2
4913	Pilot based channel estimation of OFDM systems using deep learning techniques. International Journal of Information Technology (Singapore), 2023, 15, 819-831.	1.8	4
4914	Computer-aided breast cancer detection and classification in mammography: A comprehensive review. Computers in Biology and Medicine, 2023, 153, 106554.	3.9	21
4915	A continual learning-guided training framework for pansharpening. ISPRS Journal of Photogrammetry and Remote Sensing, 2023, 196, 45-57.	4.9	7
4916	An improved generative adversarial networks for remote sensing image super-resolution reconstruction via multi-scale residual block. Egyptian Journal of Remote Sensing and Space Science, 2023, 26, 151-160.	1.1	2
4917	Generating Sentinel-2 all-band 10-m data by sharpening 20/60-m bands: A hierarchical fusion network. ISPRS Journal of Photogrammetry and Remote Sensing, 2023, 196, 16-31.	4.9	2
4918	Anomaly detection framework for unmanned vending machines. Knowledge-Based Systems, 2023, 262, 110251.	4.0	1
4919	Self-attention learning network for face super-resolution. Neural Networks, 2023, 160, 164-174.	3.3	6

#	ARTICLE	IF	CITATIONS
4920	Panchromatic and multispectral image fusion for remote sensing and earth observation: Concepts, taxonomy, literature review, evaluation methodologies and challenges ahead. Information Fusion, 2023, 93, 227-242.	11.7	24
4921	Recurrent wavelet structure-preserving residual network for single image deraining. Pattern Recognition, 2023, 137, 109294.	5.1	7
4922	D-ESRGAN: A Dual-Encoder GAN with Residual CNN and Vision Transformer for Iris Image Super-Resolution. , 2022, , .		0
4923	Deep Learning Super Resolution of Sea Surface Temperature on South China Sea. , 2022, , .		1
4924	Unsupervised learning statistical downscaling based on residual network of attention mechanism. , 2022, , .		0
4925	MSISR : Modified Single Image Super-Resolution Using Relu Based 2D CNN For Satellite Images. , 2022, , .		0
4926	Combining Attention Module and Pixel Shuffle for License Plate Super-Resolution. , 2022, , .		1
4927	Generation of Super-Resolution Images from Satellite Images Based on Improved RCAN. , 2022, , .		0
4928	MRI Super-Resolution using Generative Adversarial Network and Discrete Wavelet Transform. , 2022, , .		2
4929	Solving Graph Coloring Problem via Graph Neural Network (GNN). , 2022, , .		30
4930	Focus on Objects: An Image Super-Resolution Model for Region of Interest. , 2022, , .		1
4931	Reviewing Deep Learning Methods in the Applied Problems of Economic Monitoring Based on Geospatial Data. Cybernetics and Systems Analysis, 2022, 58, 1008-1020.	0.4	0
4932	Underwater image super-resolution using improved SRCNN. , 2022, , .		1
4933	Up-Sampling Method for Low-Resolution LiDAR Point Cloud to Enhance 3D Object Detection in an Autonomous Driving Environment. Sensors, 2023, 23, 322.	2.1	8
4934	Hyperspectral Multispectral Image Fusion via Fast Matrix Truncated Singular Value Decomposition. Remote Sensing, 2023, 15, 207.	1.8	0
4935	Deep Learning Enabled Channel Estimation for RIS-Aided Wireless Systems. , 2022, , .		2
4936	Multi-stage Locally and Long-range Correlated Feature Fusion for Learned In-loop Filter in VVC. , 2022, , .		1
4937	Color image-guided very low-resolution depth image reconstruction. Signal, Image and Video Processing, 2023, 17, 2111-2120.	1.7	2

#	ARTICLE	IF	CITATIONS
4938	Enhancing Two Dimensional Magnetic Resonance Image Using Generative Adversarial Network. , 2022, , .		1
4939	CNN-Based Post-Processing Filter for Video Compression with Multi-Scale Feature Representation. , 2022, , .		1
4940	Bandwidth Improvement in Ultrasound Image Reconstruction Using Deep Learning Techniques. Healthcare (Switzerland), 2023, 11, 123.	1.0	0
4941	Honeycomb Artifact Removal Using Convolutional Neural Network for Fiber Bundle Imaging. Sensors, 2023, 23, 333.	2.1	4
4942	Non-iterative deep neural networks for compressed coded aperture imaging. Journal of Optics (India), 0, , .	0.8	0
4943	An end-to-end network for multiple scattering media imaging. , 2022, , .		0
4944	Single Image Super-Resolution Using ConvNeXt. , 2022, , .		1
4945	LR-ProtoNet: Meta-Learning for Low-Resolution Few-Shot Recognition and Classification. , 2022, , .		0
4946	Multi-Stage Spatial and Frequency Feature Fusion using Transformer in CNN-Based In-Loop Filter for VVC. , 2022, , .		1
4947	An Efficient Pre-processing Technique using HOLF for 2D Image Interpolation. , 2022, , .		0
4949	Super-Resolution of Image and Video Using Deep Laplacian Pyramid Network. , 2022, , .		0
4950	Dual-branche attention network for super-resolution of remote sensing images. International Journal of Remote Sensing, 2023, 44, 492-516.	1.3	2
4951	A deep learning method for pinhole array color image reconstruction. Optics Letters, 0, , .	1.7	1
4952	Multimodal Multi-Head Convolutional Attention with Various Kernel Sizes for Medical Image Super-Resolution. , 2023, , .		19
4953	Lightweight Video Super-Resolution for Compressed Video. Electronics (Switzerland), 2023, 12, 660.	1.8	1
4954	Video Super-Resolution Based on Inter-Frame Information Utilization for Intelligent Transportation. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 13409-13421.	4.7	0
4955	Theoretical Perspectives on Deep Learning Methods in Inverse Problems. IEEE Journal on Selected Areas in Information Theory, 2022, 3, 433-453.	1.9	5
4956	Super-Resolution Reconstruction of Reservoir Saturation Map with Physical Constraints Using Generative Adversarial Network. , 2023, , .		1

#	ARTICLE	IF	CITATIONS
4957	A High-Performance Accelerator for Super-Resolution Processing on Embedded GPU. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 3210-3223.	1.9	1
4958	A space-time downscaling approach of Fengyun-4A satellite based on deep learning. , 2023, , .		0
4959	Learning to Super-Resolve Blurry Images With Events. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10027-10043.	9.7	2
4960	Hitchhiker's Guide to Super-Resolution: Introduction and Recent Advances. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 9862-9882.	9.7	6
4961	Cross-Scale KNN Image Transformer for Image Restoration. IEEE Access, 2023, 11, 13013-13027.	2.6	0
4962	Meet-in-the-middle: Multi-scale upsampling and matching for cross-resolution face recognition. , 2023, , .		1
4963	Deep Learning for Super-Resolution Channel Estimation in Reconfigurable Intelligent Surface Aided Systems. IEEE Transactions on Communications, 2023, 71, 1491-1503.	4.9	7
4964	Adversarial Spectral Super-Resolution for Multispectral Imagery Using Spatial Spectral Feature Attention Module. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1550-1562.	2.3	1
4965	Research on Lightweight Super-Resolution Network Based on CNN and Transformer. Computer Science and Application, 2023, 13, 93-103.	0.0	0
4966	Low-Cost Video Super-Resolution Assisted by Event Signals. Lecture Notes in Electrical Engineering, 2023, , 6610-6617.	0.3	0
4967	Medical Image Super Resolution by Preserving Interpretable and Disentangled Features. Lecture Notes in Computer Science, 2023, , 709-721.	1.0	0
4968	GDSSR: Toward Real-World Ultra-High-Resolution Image Super-Resolution. IEEE Signal Processing Letters, 2023, 30, 95-99.	2.1	0
4969	Close the Optical Sensing Domain Gap by Physics-Grounded Active Stereo Sensor Simulation. IEEE Transactions on Robotics, 2023, 39, 2429-2447.	7.3	5
4970	BUSIFusion: Blind Unsupervised Single Image Fusion of Hyperspectral and RGB Images. IEEE Transactions on Computational Imaging, 2023, 9, 94-105.	2.6	9
4971	Mutiscale Hybrid Attention Transformer for Remote Sensing Image Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-16.	2.7	7
4972	Learning Dynamic Scale Awareness and Global Implicit Functions for Continuous-Scale Super-Resolution of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-15.	2.7	4
4973	A Customized Deep Network Based Encryption-then-Lossy-Compression Scheme of Color Images Achieving Arbitrary Compression Ratios. IEEE Transactions on Circuits and Systems for Video Technology, 2023, , 1-1.	5.6	0
4974	Single patch super-resolution of histopathology whole slide images: a comparative study. Journal of Medical Imaging, 2023, 10, .	0.8	0



#	ARTICLE	IF	CITATIONS
4975	Energy Reduction with Super-Resolution Convolutional Neural Network for Ultrasound Tomography. Energies, 2023, 16, 1387.	1.6	1
4976	Text Prior Guided Scene Text Image Super-Resolution. IEEE Transactions on Image Processing, 2023, 32, 1341-1353.	6.0	12
4977	Image Quality Assessment for Magnetic Resonance Imaging. IEEE Access, 2023, 11, 14154-14168.	2.6	9
4978	Statistical Downscaling of Temperature Distributions in Southwest China by Using Terrain-Guided Attention Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 1678-1690.	2.3	2
4979	Diffusion MRI data analysis assisted by deep learning synthesized anatomical images (DeepAnat). Medical Image Analysis, 2023, 86, 102744.	7.0	3
4980	Deep Hierarchical Pyramid Network With High-Frequency -Aware Differential Architecture for Super-Resolution Mapping. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-15.	2.7	12
4981	Lightweight image super-resolution based on deep learning: State-of-the-art and future directions. Information Fusion, 2023, 94, 284-310.	11.7	13
4982	Multi-scale hybrid attention graph convolution neural network for remote sensing images super-resolution. Signal Processing, 2023, 207, 108954.	2.1	7
4984	Super-resolution of Retinal Fundus Images Using Generative Adversarial Networks. , 2022, , .		0
4985	Multi-frame Super-resolution via Generative Image Model. , 2022, , .		0
4986	Enhanced Deep Learning Super-Resolution for Bathymetry Data. , 2022, , .		1
4987	A comparative analysis of image restoration techniques. , 2023, , 173-211.		0
4988	Rate-Distortion Optimization-Based Learned Fractional Interpolation Filter Design for HEVC. IEEE Transactions on Broadcasting, 2023, 69, 422-435.	2.5	6
4989	Gradient Prior Dilated Convolution Network for Remote Sensing Image Super-Resolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 3945-3958.	2.3	3
4990	Deep Fourier Kernel Exploitation in Blind Image Super-Resolution. Communications in Computer and Information Science, 2023, , 163-179.	0.4	0
4991	AFFSRN: Attention-Based Feature Fusion Super-Resolution Network. Communications in Computer and Information Science, 2023, , 142-152.	0.4	0
4992	Ship License Plate Super-Resolution in the Wild. IEEE Signal Processing Letters, 2023, 30, 394-398.	2.1	0
4993	Denoising Supervision Based Generative Adversarial Networks for MRI Super-Resolution Reconstruction. Lecture Notes in Electrical Engineering, 2023, , 3-11.	0.3	0



#	ARTICLE	IF	CITATIONS
4994	Meta-Learning Multi-Scale Radiology Medical Image Super-Resolution. Computers, Materials and Continua, 2023, 75, 2671-2684.	1.5	0
4995	An Interpretable Unsupervised Unrolling Network for Hyperspectral Pansharpening. IEEE Transactions on Cybernetics, 2023, 53, 7943-7956.	6.2	6
4996	MSAGAN: A New Super-Resolution Algorithm for Multispectral Remote Sensing Image Based on a Multiscale Attention GAN Network. IEEE Geoscience and Remote Sensing Letters, 2023, 20, 1-5.	1.4	2
4997	Light Field Image Super-Resolution Network via Joint Spatial-Angular and Epipolar Information. IEEE Transactions on Computational Imaging, 2023, 9, 350-366.	2.6	9
4998	NAWQ-SR: A Hybrid-Precision NPU Engine for Efficient On-Device Super-Resolution. IEEE Transactions on Mobile Computing, 2024, 23, 2367-2381.	3.9	0
4999	Sliding Window Recurrent Network for Efficient Video Super-Resolution. Lecture Notes in Computer Science, 2023, , 591-601.	1.0	1
5000	Depth Separable-CNN for Improved Spectral Super-Resolution. IEEE Access, 2023, 11, 23063-23072.	2.6	1
5001	IRE: Improved Image Super-Resolution Based on Real-ESRGAN. IEEE Access, 2023, 11, 45334-45348.	2.6	2
5002	Real-Time Channel Mixing Net for Mobile Image Super-Resolution. Lecture Notes in Computer Science, 2023, , 573-590.	1.0	2
5003	Recent advances in highly accelerated 3D MRI. Physics in Medicine and Biology, 0, , .	1.6	0
5004	Neural Network-Based Reference Block Quality Enhancement for Motion Compensation Prediction. Applied Sciences (Switzerland), 2023, 13, 2795.	1.3	1
5005	Deep Learning Joint Inversion of Electrical Data for Ahead-Prospecting in Tunneling. Advances in Civil Engineering, 2023, 2023, 1-10.	0.4	1
5006	A novel energy efficient two-dimensional pilot muting mechanism for non-stationary channel fading environment. Electronics Letters, 2023, 59, .	0.5	0
5007	Deep SBP+: breaking through the space-bandwidth product limit based on a physical-driven cycle constraint framework. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2023, 40, 833.	0.8	0
5008	UHA-CycleGAN: Unpaired hybrid attention network based on CycleGAN for terahertz image super-resolution. IET Image Processing, 0, , .	1.4	0
5009	Studies Advanced in Image Super-resolution Reconstruction based on Deep Learning. , 0, 39, 1301-1308.		1
5010	Zero-sample mural superresolution reconstruction for enhanced perceptual quality. Heritage Science, 2023, 11, .	1.0	0
5011	Manuscripts Character Recognition Using Machine Learning and Deep Learning. Modelling, 2023, 4, 168-188.	0.8	2

#	ARTICLE	IF	CITATIONS
5012	Weather Radar Super-Resolution Reconstruction Based on Residual Attention Back-Projection Network. Remote Sensing, 2023, 15, 1999.	1.8	2
5013	A new face reconstruction technique for noisy low-resolution images using regression learning. Computers and Electrical Engineering, 2023, 107, 108642.	3.0	2
5014	Two-Branch network for brain tumor segmentation using attention mechanism and super-resolution reconstruction. Computers in Biology and Medicine, 2023, 157, 106751.	3.9	6
5015	A framework for the efficient enhancement of non-uniform illumination underwater image using convolution neural network. Computers and Graphics, 2023, 112, 60-71.	1.4	4
5016	Resolution enhancement of neutron radiography image using combined SRCNN-POCS method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2023, 1050, 168123.	0.7	0
5017	Post-trained convolution networks for single image super-resolution. Artificial Intelligence, 2023, 318, 103882.	3.9	2
5018	RSHAN: Image super-resolution network based on residual separation hybrid attention module. Engineering Applications of Artificial Intelligence, 2023, 122, 106072.	4.3	5
5019	An efficient unfolding network with disentangled spatial-spectral representation for hyperspectral image super-resolution. Information Fusion, 2023, 94, 92-111.	11.7	9
5020	Adversarial pan-sharpening attacks for object detection in remote sensing. Pattern Recognition, 2023, 139, 109466.	5.1	7
5021	From degrade to upgrade: Learning a self-supervised degradation guided adaptive network for blind remote sensing image super-resolution. Information Fusion, 2023, 96, 297-311.	11.7	54
5022	Super-resolution adversarial generative fish classification based on Swin-Transformer. , 2022, , .		0
5023	A Method to Downscale MODIS Surface Reflectance Using Convolutional Neural Networks. Remote Sensing, 2023, 15, 2102.	1.8	0
5024	Neural Super-Resolution in Real-Time Rendering Using Auxiliary Feature Enhancement. Journal of Database Management, 2023, 34, 1-13.	1.0	0
5025	Comparison of denoising tools for reconstruction of nonlinear multimodal images. Biomedical Optics Express, 0, , .	1.5	0
5026	Conditional invertible image re-scaling. Pattern Recognition, 2023, 139, 109459.	5.1	1
5027	Compressing convolutional neural networks with cheap convolutions and online distillation. Displays, 2023, 78, 102428.	2.0	2
5029	Blind Super-Resolution of 3D MRI via Unsupervised Domain Transformation. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 1409-1418.	3.9	3
5030	Group Shuffle and Spectral-Spatial Fusion for Hyperspectral Image Super-Resolution. IEEE Transactions on Computational Imaging, 2022, 8, 1223-1236.	2.6	5

#	ARTICLE	IF	CITATIONS
5031	RoFace: A robust face representation approach for accurate classification. Heliyon, 2023, 9, e13053.	1.4	0
5032	Topology optimization using super-resolution image reconstruction methods. Advances in Engineering Software, 2023, 177, 103413.	1.8	3
5033	INDIVIDUAL ROOF ALBEDO ESTIMATION BY SUPER-RESOLUTION OF OPEN SATELLITE IMAGES. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2022, 78, I_499-I_504.	0.0	0
5034	Dual-stream coupling network with wavelet transform for cross-resolution person re-identification. Journal of Systems Engineering and Electronics, 2023, 34, 682-695.	1.1	0
5035	Structural similarity-based Bi-representation through true noise level for noise-robust face super-resolution. Multimedia Tools and Applications, 0, , .	2.6	0
5036	Recent Advances in Multiscale Digital Rock Reconstruction, Flow Simulation, and Experiments during Shale Gas Production. Energy & Fuels, 2023, 37, 2475-2497.	2.5	10
5037	Employing Super Resolution to Improve Low-Quality Deepfake Detection. , 2022, , .		0
5038	Learning Inter-Frame Information for Space-Time Video Super-Resolution. , 2022, , .		0
5039	Deep Video Decaptioning via Subtitle Mask Prediction and Inpainting. , 2022, , .		0
5040	Improving the diagnostic performance of computed tomography angiography for intracranial large arterial stenosis by a novel super-resolution algorithm based on multi-scale residual denoising generative adversarial network. Clinical Imaging, 2023, 96, 1-8.	0.8	2
5041	Super-resolution using deep residual network with spectral normalization. Electronics Letters, 2023, 59, , .	0.5	0
5042	Document Image Restore via SPADE-Based Super-Resolution Network. Electronics (Switzerland), 2023, 12, 748.	1.8	0
5043	DRGAN: A dual resolution guided low-resolution image inpainting. Knowledge-Based Systems, 2023, 264, 110346.	4.0	4
5044	A Data Enhancement Method toward Real-World Single Image Super-Resolution. Journal of Physics: Conference Series, 2023, 2440, 012002.	0.3	0
5045	Fuzzy image reconstruction algorithm based on multi-scale UNet-attention neural network. , 2023, , .		0
5046	Super-resolution method for SEM images based on pixelwise weighted loss function. Microscopy (Oxford, England), 0, , .	0.7	0
5047	A Closed-Loop Network for Single Infrared Remote Sensing Image Super-Resolution in Real World. Remote Sensing, 2023, 15, 882.	1.8	1
5048	Cascade of Denoising and Mapping Neural Networks for MRI R2* Relaxometry of Iron-Loaded Liver. Bioengineering, 2023, 10, 209.	1.6	3

#	ARTICLE	IF	CITATIONS
5049	Single Image Super-Resolution via a Dual Interactive Implicit Neural Network. , 2023, , .		3
5050	Double Prior Network for Multidegradation Remote Sensing Image Super-Resolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 3131-3147.	2.3	1
5051	Hardware-software co-design of an open-source automatic multimodal whole slide histopathology imaging system. Journal of Biomedical Optics, 2023, 28, .	1.4	0
5052	Attention-based Residual Network for Single Image Remote Sensing Super-resolution. , 2022, , .		0
5053	Deep Learning Methods for Super Resolution of Video. , 2022, , .		0
5054	A Lightweight Low-Dose PET Image Super-resolution Reconstruction Method Based on Convolutional Neural Network. Current Medical Imaging, 2023, 19, .	0.4	0
5055	Research Challenges, Recent Advances, and Popular Datasets in Deep Learning-Based Underwater Marine Object Detection: A Review. Sensors, 2023, 23, 1990.	2.1	7
5056	Image super resolution via combination of two dimensional quaternion valued singular spectrum analysis based denoising, empirical mode decomposition based denoising and discrete cosine transform based denoising methods. Multimedia Tools and Applications, 0, , .	2.6	1
5057	Research on Compression Optimization Algorithm for Super-resolution Reconstruction Network. , 2022, , .		1
5058	Anomaly Candidate Extraction and Detection for automatic quality inspection of metal casting products using high-resolution images. Journal of Manufacturing Systems, 2023, 67, 229-241.	7.6	5
5059	Semi-XctNet: Volumetric images reconstruction network from a single projection image via semi-supervised learning. Computers in Biology and Medicine, 2023, 155, 106663.	3.9	3
5060	A Joint Channel Estimation and Compression Method Based on GAN in 6G Communication Systems. Applied Sciences (Switzerland), 2023, 13, 2319.	1.3	1
5061	Deep HyFeat Based Attention in Attention Model for Face Super-Resolution. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-11.	2.4	2
5062	Beyond a Video Frame Interpolator: A Space Decoupled Learning Approach to Continuous Image Transition. Lecture Notes in Computer Science, 2023, , 738-755.	1.0	0
5063	AESR3D: 3D overcomplete autoencoder for trabecular computed tomography super resolution. CAAI Transactions on Intelligence Technology, 0, , .	3.4	1
5064	Image Super-Resolution with Deep Variational Autoencoders. Lecture Notes in Computer Science, 2023, , 395-411.	1.0	3
5065	Multi-patch Learning: Looking More Pixels in the Training Phase. Lecture Notes in Computer Science, 2023, , 549-560.	1.0	2
5066	RCBSR: Re-parameterization Convolution Block for Super-Resolution. Lecture Notes in Computer Science, 2023, , 540-548.	1.0	0

#	ARTICLE	IF	CITATIONS
5067	HST: Hierarchical Swin Transformer for Compressed Image Super-Resolution. Lecture Notes in Computer Science, 2023, , 651-668.	1.0	10
5068	MicroISP: Processing 32MP Photos on Mobile Devices with Deep Learning. Lecture Notes in Computer Science, 2023, , 729-746.	1.0	6
5069	Learning Multiple Probabilistic Degradation Generators for Unsupervised Real World Image Super Resolution. Lecture Notes in Computer Science, 2023, , 88-100.	1.0	3
5070	An Enhanced Residual Feature Fusion Network Integrated with a Terrain Weight Module for Digital Elevation Model Super-Resolution. Remote Sensing, 2023, 15, 1038.	1.8	2
5071	Evaluating Image Super-Resolution Performance on Mobile Devices: An Online Benchmark. Lecture Notes in Computer Science, 2023, , 169-186.	1.0	0
5072	Joint Sparse Representation-based Single Image Super-Resolution for Remote Sensing Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 2352-2365.	2.3	2
5073	Flattening-Net: Deep Regular 2D Representation for 3D Point Cloud Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 9726-9742.	9.7	2
5074	ZSFA: Zero-Shot Fingerprint Augmentation for WiFi Fingerprint Based Indoor Localization. , 2022, , .		1
5075	Enhancement of Diagnostic Information in T1-weighted Contrast Enhanced MRI using Deep Back-Projection based Super-Resolution. , 2022, , .		0
5076	Multisource Information Fusion Network for Optical Remote Sensing Image Super-Resolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2023, 16, 3805-3818.	2.3	2
5077	DEAR-GAN: Degradation-Aware Face Restoration With GAN Prior. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 4603-4615.	5.6	4
5078	Improving the brain image resolution of generalized q-sampling MRI revealed by a three-dimensional CNN-based method. Frontiers in Neuroinformatics, 0, 17, .	1.3	0
5079	Guided Depth Map Super-Resolution: A Survey. ACM Computing Surveys, 2023, 55, 1-36.	16.1	6
5080	Efficient and Accurate Quantized Image Super-Resolution on Mobile NPLUs, Mobile AI & AIM 2022 Challenge: Report. Lecture Notes in Computer Science, 2023, , 92-129.	1.0	2
5081	DDNSR: a dual-input degradation network for real-world super-resolution. Pattern Analysis and Applications, 0, , .	3.1	1
5082	Reference-Based Super-Resolution Method for Remote Sensing Images with Feature Compression Module. Remote Sensing, 2023, 15, 1103.	1.8	4
5083	Structure-Aware Deep Networks and Pixel-Level Generative Adversarial Training for Single Image Super-Resolution. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-14.	2.4	5
5084	Image-Driven Intelligent Prediction of Buckling Behavior for Geometrically Imperfect Cylindrical Shells. AIAA Journal, 2023, 61, 2266-2280.	1.5	1

#	ARTICLE	IF	CITATIONS
5085	Effects of Different Normalization on the ESRGAN. Lecture Notes in Electrical Engineering, 2023, , 139-148.	0.3	0
5086	Optimized instance segmentation by super-resolution and maximal clique generation. Integrated Computer-Aided Engineering, 2023, 30, 243-256.	2.5	2
5087	A New Robust Scale-Aware Weighting-Based Effective Edge-Preserving Gradient Domain Guided Image Filter for Single Image Dehazing. Journal of Signal Processing Systems, 0, , .	1.4	0
5088	RDRN: Recursively Defined Residual Network for Image Super-Resolution. Lecture Notes in Computer Science, 2023, , 629-645.	1.0	2
5089	Fusion and Allocation Network for Light Field Image Super-Resolution. Mathematics, 2023, 11, 1088.	1.1	0
5090	Efficient Super-Resolution System With Block-Wise Hybridization and Quantized Winograd on FPGA. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2023, 42, 3910-3924.	1.9	3
5091	Graph Neural Networks with Interlayer Feature Representation for Image Super-Resolution. , 2023, , .		0
5092	Towards Large-Scale DRP Simulations: Generation of Large Super-Resolution images and Extraction of Large Pore Network Models. Transport in Porous Media, 2023, 147, 375-399.	1.2	2
5093	Detection, tracking, and recognition of isolated multi-stroke gesticulated characters. Pattern Analysis and Applications, 0, , .	3.1	0
5094	Development of weighted ensemble transfer learning for tomato leaf disease classification solving low resolution problems. Imaging Science Journal, 2023, 71, 161-187.	0.2	2
5095	Reparametric sampling for small object image recognition. Asia-Pacific Journal of Operational Research, 0, , .	0.9	0
5096	Magnetic resonance shoulder imaging using deep learning-based algorithm. European Radiology, 2023, 33, 4864-4874.	2.3	3
5097	High-to-low-level feature matching and complementary information fusion for reference-based image super-resolution. Visual Computer, 2024, 40, 99-108.	2.5	1
5098	Enhanced Multi-Attention Network for Single Image Super-resolution. , 2022, , .		1
5099	PILN: A posterior information learning network for blind reconstruction of lung CT images. Computer Methods and Programs in Biomedicine, 2023, 232, 107449.	2.6	0
5100	A new approach for super-resolution and classification applications on neonatal thermal images. Quantitative InfraRed Thermography Journal, 0, , 1-18.	2.1	3
5101	Deep Video Super-Resolution Using Hybrid Imaging System. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 4855-4867.	5.6	1
5102	Image Reconstruction of Synthetic Aperture Radiometer by Transformer. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-15.	2.7	0

#	ARTICLE	IF	CITATIONS
5103	Feedback Pyramid Attention Networks for Single Image Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 4881-4892.	5.6	3
5104	Neural Network Experiment on PYNQ. SpringerBriefs in Applied Sciences and Technology, 2023, , 45-79.	0.2	0
5105	Efficient Hardware-Aware Neural Architecture Search for Image Super-Resolution on Mobile Devices. Lecture Notes in Computer Science, 2023, , 409-426.	1.0	1
5106	Weighted Robinson Compass Gradient and Charbonnier Penalty Function as a Loss Function. , 2022, , .		0
5107	A Comprehensive Review of Deep Learning-Based Real-World Image Restoration. IEEE Access, 2023, 11, 21049-21067.	2.6	4
5108	Deep Learning-Based Single-Image Super-Resolution: A Comprehensive Review. IEEE Access, 2023, 11, 21811-21830.	2.6	4
5109	SA-GAN: A Second Order Attention Generator Adversarial Network with Region Aware Strategy for Real Satellite Images Super Resolution Reconstruction. Remote Sensing, 2023, 15, 1391.	1.8	4
5110	PU-Transformer: Point Cloud Upsampling Transformer. Lecture Notes in Computer Science, 2023, , 326-343.	1.0	4
5112	Tek Gözlemli Sinyallerin Çoklu Kanallı Uygulamalar İçin Gözlem Kaliteyi Artırmaya Yönelik Yeni Bir Yaklaşım. Journal of Intelligent Systems Theory and Applications, 2023, 6, 52-58.	0.3	0
5113	Pathological image super-resolution using mix-attention generative adversarial network. International Journal of Machine Learning and Cybernetics, 2024, 15, 149-159.	2.3	1
5114	A Novel Implicit Neural Representation for Volume Data. Applied Sciences (Switzerland), 2023, 13, 3242.	1.3	0
5115	Grid-wise simulation acceleration of the electromagnetic fields of 2D optical devices using super-resolution. Scientific Reports, 2023, 13, .	1.6	6
5116	Continuous Sign Language Recognition Via Temporal Super-Resolution Network. Arabian Journal for Science and Engineering, 0, , .	1.7	0
5117	Super-Resolution of Dental Panoramic Radiographs Using Deep Learning: A Pilot Study. Diagnostics, 2023, 13, 996.	1.3	5
5118	Brain-inspired feedback for spatial frequency aware artificial networks. , 2022, , .		1
5119	Convolutional Block Design for Learned Fractional Downsampling. , 2022, , .		1
5120	PAN-Guided Band-Aware Multi-Spectral Feature Enhancement for Pan-Sharpener. IEEE Transactions on Computational Imaging, 2023, 9, 238-249.	2.6	7
5121	A Novel Steganography Approach Using S-CycleGAN With an Improvement of Loss Function. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2023, , 123-142.	0.5	0



#	ARTICLE	IF	CITATIONS
5122	A Study on the Super Resolution Combining Spatial Attention and Channel Attention. Applied Sciences (Switzerland), 2023, 13, 3408.	1.3	1
5123	Dynamic connection pruning for densely connected convolutional neural networks. Applied Intelligence, 2023, 53, 19505-19521.	3.3	1
5124	A single image super resolution method based on cross residual network and wavelet transform. International Journal of Wavelets, Multiresolution and Information Processing, 0, , .	0.9	0
5125	Processing of micro-CT images of granodiorite rock samples using convolutional neural networks (CNN). Part III: Enhancement of Scanco micro-CT images of granodiorite rocks using a 3D convolutional neural network super-resolution algorithm. Minerals Engineering, 2023, 195, 108028.	1.8	1
5126	Effect of Super Resolution on Low-Resolution MRI Segmentation. Journal of St Marianna University, 2022, 13, 95-100.	0.1	0
5127	Development of a chatbot for a car service. AIP Conference Proceedings, 2023, , .	0.3	1
5128	Prosformer: Accurate Surface Reconstruction for Sparse Profilometer Measurement with Transformer. , 2022, , .		0
5129	Convergence of Artificial Intelligence and Neuroscience towards the Diagnosis of Neurological Disordersâ€”A Scoping Review. Sensors, 2023, 23, 3062.	2.1	7
5130	Semi-supervised super-resolution of diffusion-weighted images based on multiple references. NMR in Biomedicine, 2023, 36, .	1.6	1
5131	Research on single image super-resolution algorithm based on region perception. , 2022, , .		0
5132	SSIM-Based Sparse Image Super-Resolution with Rotation Strategy and Nonlocal Regularization. , 2022, , .		0
5133	Memory Bandwidth Efficient Design for Super-Resolution Accelerators With Structure Adaptive Fusion and Channel-Aware Addressing. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2023, , 1-10.	2.1	0
5134	Learning-based Early Transform Skip Mode Decision for VVC Screen Content Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2023, , 1-1.	5.6	1
5135	Deep learning super resolution for high-speed excitation emission matrix measurements. , 2023, , .		0
5136	Image Super-resolution Methods for FY-3E X-EUVI 195 Å... Solar Images. Astrophysical Journal, Supplement Series, 2023, 265, 36.	3.0	2
5137	Dual-step reconstruction algorithm to improve microscopy resolution by deep learning. Applied Optics, 0, , .	0.9	0
5138	Adaptive-weighted high order TV algorithm for sparse-view CT reconstruction. Medical Physics, 2023, 50, 5568-5584.	1.6	3
5139	Pansharpener Model of Transferable Remote Sensing Images Based on Feature Fusion and Attention Modules. Sensors, 2023, 23, 3275.	2.1	2



#	ARTICLE	IF	CITATIONS
5140	Facial Image Super-Resolution with CNN, <i>ACM Review</i> , 2023, , .		1
5141	Random Degradation Model for Deep Blind Image Super-Resolution. , 2022, , .		0
5142	Self-supervised Blind2Unblind deep learning scheme for OCT speckle reductions. <i>Biomedical Optics Express</i> , 2023, 14, 2773.	1.5	2
5143	A Self-Attention Based SRGAN for Super-Resolution of Astronomical Image. , 2022, , .		0
5144	Low-dose imaging denoising with one pair of noisy images. <i>Optics Express</i> , 2023, 31, 14159.	1.7	1
5145	Pixel Attention Based Deep Neural Network for Chest CT Image Super Resolution. <i>Communications in Computer and Information Science</i> , 2023, , 393-407.	0.4	0
5146	A Lightweight Deep Residual Attention Network for Single Image Super Resolution. , 2023, , .		1
5147	Super-resolution reconstruction, recognition, and evaluation of laser confocal images of hyperaccumulator <i>Solanum nigrum</i> endocytosis vesicles based on deep learning: Comparative study of SRGAN and SRResNet. <i>Frontiers in Plant Science</i> , 0, 14, .	1.7	0
5148	Improving Intra-Urban Prediction of Atmospheric Fine Particles Using a Hybrid Deep Learning Approach. <i>Atmosphere</i> , 2023, 14, 599.	1.0	1
5149	A Super-Resolution-Based Feature Map Compression for Machine-Oriented Video Coding. <i>IEEE Access</i> , 2023, 11, 34198-34209.	2.6	1
5150	Video super-resolution via nonlocal deformable alignment and frame recursive progressive fusion network. <i>Journal of Electronic Imaging</i> , 2023, 32, .	0.5	0
5151	UArch: A Super-Resolution Processor With Heterogeneous Triple-Core Architecture for Workloads of U-Net Networks. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2023, 17, 633-647.	2.7	2
5152	Deep learning using a residual deconvolutional network enables real-time high-density single-molecule localization microscopy. <i>Biomedical Optics Express</i> , 2023, 14, 1833.	1.5	1
5153	Resolution-enhanced X-ray fluorescence microscopy via deep residual networks. <i>Npj Computational Materials</i> , 2023, 9, .	3.5	4
5154	A Novel Fast Reconstruction Method for Single Image Super Resolution Task. <i>Neural Processing Letters</i> , 2023, 55, 9995-10010.	2.0	2
5155	Detection and Recognition of Deformed Multiple QR Codes Based on SR_ESAGAN Algorithm. , 2022, , .		0
5156	Degradation Prior Guided Scene Text Image Super-Resolution. , 2022, , .		0
5157	Spatial Data Augmentation: Improving the Generalization of Neural Networks for Pansharpening. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2023, 61, 1-11.	2.7	4



#	ARTICLE	IF	CITATIONS
5176	Per-Channel Image Super Resolution. , 2022, , .		0
5177	Computational Super-Resolution Imaging With a Sparse Rotational Camera Array. IEEE Transactions on Computational Imaging, 2023, 9, 425-434.	2.6	2
5178	Multi-image hybrid super-resolution reconstruction via interpolation and multi-scale residual networks. Measurement Science and Technology, 2023, 34, 075403.	1.4	3
5179	Thermal error prediction and control method combining residual-based one-dimensional convolution-minimum gate unit model with physical-data-edge-cloud terminal architecture. Neural Computing and Applications, 2023, 35, 15477-15502.	3.2	1
5180	A Lightweight Feature Distillation and Enhancement Network for Super-Resolution Remote Sensing Images. Sensors, 2023, 23, 3906.	2.1	0
5181	Unsupervised Pansharpening Method Using Residual Network With Spatial Texture Attention. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-12.	2.7	5
5182	Spectral Super-Resolution for High Dynamic Range Images. Journal of Imaging, 2023, 9, 83.	1.7	0
5183	Text-Enhanced Scene Image Super-Resolution via Stroke Mask and Orthogonal Attention. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 6317-6330.	5.6	0
5184	Omnidirectional Video Super-Resolution Using Deep Learning. IEEE Transactions on Multimedia, 2024, 26, 540-554.	5.2	4
5185	Recurrent Multi-scale Approximation-Guided Network for Single Image Super-Resolution. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-21.	3.0	3
5186	Twinned Residual Auto-Encoder (TRAЕ)â€”A new DL architecture for denoising super-resolution and task-aware feature learning from COVID-19 CT images. Expert Systems With Applications, 2023, 225, 120104.	4.4	1
5187	Referenceâ€based Screentone Transfer via Pattern Correspondence and Regularization. Computer Graphics Forum, 2023, 42, .	1.8	0
5188	Multimodal 4DVarNets for the Reconstruction of Sea Surface Dynamics From SST-SSH Synergies. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-14.	2.7	3
5189	CADUI: Cross-Attention-Based Depth Unfolding Iteration Network for Pansharpening Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-20.	2.7	12
5190	Data-driven based Terahertz Image Restoration. IEEE Sensors Journal, 2023, , 1-1.	2.4	0
5191	Advanced Binary Neural Network for Single Image Super Resolution. International Journal of Computer Vision, 2023, 131, 1808-1824.	10.9	0
5192	YÄ¼z GÄ¼rÄ¼ntÄ¼leri Ä°Åšin Yeni Bir SÄ¼per Ä¼zÄ¼nÄ¼rlÄ¼k YaklaÅšım ve Farklı GÄ¼rÄ¼ntÄ¼ Kalitesindeki Veri Setleri BaÄ¼arÄ¼ PerformansÄ¼ Açzerindeki Etkileri. MÄ¼hendislik Bilimleri Ve AraÅtÄ¼rmalarÄ¼ Dergisi, 0, , .	0.3	0
5193	Multimodal image enhancement using convolutional sparse coding. Multimedia Systems, 0, , .	3.0	0

#	ARTICLE	IF	CITATIONS
5194	Physics-informed deep learning framework to model intense precipitation events at super resolution. Geoscience Letters, 2023, 10, .	1.3	0
5195	Two-Stage Deep Single Image Super-Resolution with Multiple Blur Kernels for the Internet of Things. IEEE Internet of Things Journal, 2023, , 1-1.	5.5	0
5196	Digital Image Enhancement using Conventional Neural Network. , 2023, , .		1
5197	Polarization-intensity joint imaging for marine target automatic recognition. Geocarto International, 2023, 38, .	1.7	0
5198	Deep Long-Tailed Learning: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10795-10816.	9.7	51
5199	A Cloud-Edge Collaborative Gaming Framework Using AI-Powered Foveated Rendering and Super Resolution. International Journal on Semantic Web and Information Systems, 2023, 19, 1-19.	2.2	0
5200	Deep Learning Super-Resolution Network Facilitating Fiducial Tangibles on Capacitive Touchscreens. , 2023, , .		0
5208	RELIEF: Joint Low-Light Image Enhancement and Super-Resolution with Transformers. Lecture Notes in Computer Science, 2023, , 157-173.	1.0	0
5210	Combining Non-local Sparse and Residual Channel Attentions for Single Image Super-resolution Across Modalities. Communications in Computer and Information Science, 2023, , 623-637.	0.4	0
5211	SRTGAN: Triplet Loss Based Generative Adversarial Network for Real-World Super-Resolution. Communications in Computer and Information Science, 2023, , 31-46.	0.4	0
5212	A Compact-Structured Convolutional Neural Network for Single Image Denoising and Super-Resolution. Communications in Computer and Information Science, 2023, , 682-695.	0.4	0
5222	Structure-Aware Multi-Feature Co-Learning for Dual Branch Face Super Resolution. , 2023, , .		1
5223	Local to global prior Learning for blind Unsupervised Image super Resolution. , 2023, , .		0
5230	SAR and Multispectral Image Fusion Based on Dual-Channel Hybrid Attention Block and Dilated Convolution. , 2023, , .		0
5231	License Plate Recognition in Wild with Super-Resolution. , 2023, , .		0
5243	Design and Evaluation of a Vehicle Detection System in Low Light Conditions. , 2023, , .		0
5258	SR-Net: A Super-Resolution Image Based on DWT and DCNN. Lecture Notes in Networks and Systems, 2023, , 291-301.	0.5	1
5262	Using Generative Adversarial Networks for Single Image Super-Resolution. Communications in Computer and Information Science, 2023, , 154-168.	0.4	0

#	ARTICLE	IF	CITATIONS
5275	Application of Artificial Intelligence and Its Interpretability Analysis in Power Grid Dispatch and Control. , 2023, , .		0
5278	An Improved GAN-Based Method for Low Resolution Face Recognition. Lecture Notes in Networks and Systems, 2023, , 276-286.	0.5	0
5279	Pixel Attention Activation Function for Single Image Super-Resolution. , 2023, , .		1
5280	HCT: Hybrid CNN-Transformer Networks for Super-Resolution. , 2023, , .		0
5290	Super-Resolution Algorithm Based on Image Separation. , 2023, , .		0
5295	GOSGAN: An Adaptive Atomic Force Microscope Imaging Repair Model for Cell Scanning. , 2022, , .		0
5303	Classification of Microorganisms from Sparsely Limited Data Using a Proposed Deep Learning Ensemble. Lecture Notes in Networks and Systems, 2023, , 301-314.	0.5	0
5306	OmniLive: Super-Resolution Enhanced 360° Video Live Streaming for Mobile Devices. , 2023, , .		1
5313	Efficient Deep Attentive Pixels Network in Face Super-Resolution at Scale Factor of 16. , 2023, , .		0
5315	A Fusion-Based Framework for Unsupervised Single Image Super-Resolution. Lecture Notes in Computer Science, 2023, , 85-95.	1.0	0
5334	Relativistic GAN using Receptive Field Block for Single Image Super-Resolution with improved Perceptual Quality. , 2023, , .		0
5342	A Content-Based Multi-Scale Network for Single Image Super-Resolution. , 2023, , .		1
5343	Deep Feature Aggregation for Lightweight Single Image Super-Resolution. , 2023, , .		1
5344	FCIR: Rethink Aerial Image Super Resolution with Fourier Analysis. , 2023, , .		1
5345	Diffusion Probabilistic Modeling for Fine-Grained Urban Traffic Flow Inference with Relaxed Structural Constraint. , 2023, , .		1
5346	CTTSR: A Hybrid CNN-Transformer Network for Scene Text Image Super-Resolution. , 2023, , .		0
5347	Color Guided Depth Map Super-Resolution with Nonlocal Autoregressive Modeling. , 2023, , .		0
5348	MCNeT: Measurement-Consistent Networks Via A Deep Implicit Layer For Solving Inverse Problems. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
5349	Distortion-Aware Convolutional Neural Network-Based Interpolation Filter for AVS3. , 2023, , .		0
5351	On the Use of Spatial-temporal Feature Graph Convolutional Network for Ultra-Short Term Prediction of Wind Power Generation. , 2022, , .		0
5352	An Improved Super-Resolution Model for Bubble Feature Extraction Process. Springer Proceedings in Physics, 2023, , 286-300.	0.1	0
5355	AI Algorithm for Image Enhancement. , 2023, , .		0
5362	Attaining Real-Time for Microscopic Images Using GAN. Lecture Notes in Electrical Engineering, 2023, , 533-540.	0.3	0
5367	GCN-Based Pollution Source Screening Algorithm and Optimization for Underground Drainage Pipe Network. , 2022, , .		0
5372	Deep neural network based interpolation of sparse samples for time-dense power load forecasting. , 2023, , .		0
5376	AI Super-Resolution Subfilter Modeling for Multi-Physics Flows. , 2023, , .		2
5377	Super Resolution Image Acquisition for Object Detection in the Military Industry. , 2023, , .		0
5384	Phase Correction and Noise-to-Noise Denoising of Diffusion Magnetic Resonance Images Using Neural Networks. Lecture Notes in Computer Science, 2023, , 638-652.	1.0	1
5396	Prior Guided Face Super Resolution Using Convolution LSTM. Lecture Notes in Networks and Systems, 2023, , 207-215.	0.5	0
5400	Image Frequency Separation Residual Network for End-to-end RAW to RGB Mapping. , 2023, , .		0
5403	Super Resolution-Based Channel Estimation. Lecture Notes in Networks and Systems, 2023, , 277-284.	0.5	0
5408	Iterative Super Resolution Network (ISNR) for Potato Leaf Disease Detection. , 2023, , .		4
5434	Improving Ear Recognition with Super-resolution. , 2023, , .		0
5445	Two Fold Extended Residual Network Based Super Resolution for Potato Plant Leaf Disease Detection. Lecture Notes in Networks and Systems, 2023, , 197-209.	0.5	3
5448	Improved Vehicle Logo Detection and Recognition for Complex Traffic Environments Using Deep Learning Based Unwarping of Extracted Logo Regions in Varying Angles. Lecture Notes in Networks and Systems, 2023, , 12-25.	0.5	0
5452	DSMISR: Differential Siamese Multi-scale Attention Network for Iris Image Super Resolution. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
5459	A Lightweight Hyperspectral Image Super-Resolution Method Based on Multiple Attention Mechanisms. Lecture Notes in Computer Science, 2023, , 639-651.	1.0	0
5461	Cross-Scale Dynamic Alignment Network for Reference-Based Super-Resolution. Lecture Notes in Computer Science, 2023, , 98-108.	1.0	1
5464	Optimizing Super-Resolution Generative Adversarial Networks. Lecture Notes in Networks and Systems, 2023, , 215-224.	0.5	0
5470	Deep Learning based Super-Resolution for Accurate COVID-19 diagnosis in Chest CT Images. , 2023, , .		0
5477	Super Resolution Reconstruction of Infrared Images of Power Equipment Based on Wasserstein Distance and Residual Network. Lecture Notes in Electrical Engineering, 2023, , 489-501.	0.3	0
5478	Lightweight Real-Time Image Super-Resolution Network for 4K Images. , 2023, , .		2
5479	SC-NAFSSR: Perceptual-Oriented Stereo Image Super-Resolution Using Stereo Consistency Guided NAFSSR. , 2023, , .		0
5480	AsConvSR: Fast and Lightweight Super-Resolution Network with Assembled Convolutions. , 2023, , .		3
5481	Reparameterized Residual Feature Network For Lightweight Image Super-Resolution. , 2023, , .		4
5482	Large Kernel Distillation Network for Efficient Single Image Super-Resolution. , 2023, , .		5
5483	OPDN: Omnidirectional Position-aware Deformable Network for Omnidirectional Image Super-Resolution. , 2023, , .		2
5484	Deep unfolding for hyper sharpening using a high-frequency injection module. , 2023, , .		1
5487	Denosing Diffusion Models for Plug-and-Play Image Restoration. , 2023, , .		6
5488	Spatial-Angular Multi-Scale Mechanism for Light Field Spatial Super-Resolution. , 2023, , .		1
5489	Medical Microscopic Single Image Super-Resolution Based on Deep Neural Networks. Intelligent Systems Reference Library, 2023, , 1-27.	1.0	0
5491	Improving ITCN Channel Estimation using AI-based Techniques. , 2023, , .		0
5503	A VQ-VAE Based Recognition Algorithm for Terahertz Security Inspection Images. , 2022, , .		0
5507	Learning continuous piecewise non-linear activation functions for deep neural networks. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
5512	Towards Low-Cost Learning-based Camera ISP via Unrolled Optimization. , 2023, , .		0
5514	Satellite Imagery Superresolution Based on Optimal Frame Accumulation. Springer Proceedings in Physics, 2023, , 395-412.	0.1	0
5517	Applying Super Resolution and Optical Flow to Implement a Roll Call System for a Small Classroom by Webcam. , 2023, , .		0
5519	Underwater Image Enhancement Using Hyper-Laplacian Reflectance Priors and CNN-Based Classification. , 0, , .		0
5527	Reducing Computational Requirements of Image Dehazing Using Super-Resolution Networks. , 2023, , .		0
5534	Improving the Resolution and SNR of Diffusion Magnetic Resonance Images From a Low-Field Scanner. Lecture Notes in Networks and Systems, 2024, , 147-160.	0.5	0
5552	An Efficient Frequency Domain Separation Network for Paired and Unpaired Image Super-Resolution. , 2023, , .		0
5553	Wavelet Dual-Stream Network for Brain MR Image Super-Resolution. , 2023, , .		0
5554	LCCN: A Lightweight Capture Context Network for Image Super-Resolution. , 2023, , .		0
5555	Stochastic Deep Image Prior for Multishot Compressive Spectral Image Fusion. , 2023, , .		0
5560	Compact Cross-Reparam Convolution Network for Efficient Image Super-resolution. , 2023, , .		0
5564	Cross-View Hierarchy Network for Stereo Image Super-Resolution. , 2023, , .		1
5565	QuickSRNet: Plain Single-Image Super-Resolution Architecture for Faster Inference on Mobile Platforms. , 2023, , .		1
5566	Stereo Cross Global Learnable Attention Module for Stereo Image Super-Resolution. , 2023, , .		1
5567	CoReFusion: Contrastive Regularized Fusion for Guided Thermal Super-Resolution. , 2023, , .		0
5568	A Super-Resolution Training Paradigm Based on Low-Resolution Data Only to Surpass the Technical Limits of STEM and STM Microscopy. , 2023, , .		0
5569	NTIRE 2023 Challenge on Image Super-Resolution (Å—4): Methods and Results. , 2023, , .		3
5571	Refusion: Enabling Large-Size Realistic Image Restoration with Latent-Space Diffusion Models. , 2023, , .		12



#	ARTICLE	IF	CITATIONS
5572	NTIRE 2023 Challenge on 360° Omnidirectional Image and Video Super-Resolution: Datasets, Methods and Results. , 2023, , .		17
5573	Hybrid Transformer and CNN Attention Network for Stereo Image Super-resolution. , 2023, , .		3
5578	Spectral Bayesian Uncertainty for Image Super-Resolution. , 2023, , .		3
5579	Bitstream-Corrupted JPEG Images are Restorable: Two-stage Compensation and Alignment Framework for Image Restoration. , 2023, , .		1
5581	Human Guided Ground-Truth Generation for Realistic Image Super-Resolution. , 2023, , .		2
5582	Kernel Aware Resampler. , 2023, , .		0
5583	Activating More Pixels in Image Super-Resolution Transformer. , 2023, , .		82
5584	OSRT: Omnidirectional Image Super-Resolution with Distortion-aware Transformer. , 2023, , .		1
5585	Image Super-Resolution Using T-Tetromino Pixels. , 2023, , .		1
5586	DegAE: A New Pretraining Paradigm for Low-Level Vision. , 2023, , .		1
5587	NeRFLiX: High-Quality Neural View Synthesis by Learning a Degradation-Driven Inter-viewpoint MiXer. , 2023, , .		4
5588	Integral Neural Networks. , 2023, , .		2
5589	Spatial-Frequency Mutual Learning for Face Super-Resolution. , 2023, , .		9
5590	Generative Diffusion Prior for Unified Image Restoration and Enhancement. , 2023, , .		5
5591	Memory-Friendly Scalable Super-Resolution via Rewinding Lottery Ticket Hypothesis. , 2023, , .		1
5592	Learning Distortion Invariant Representation for Image Restoration from a Causality Perspective. , 2023, , .		2
5593	CUF: Continuous Upsampling Filters. , 2023, , .		2
5594	Local Implicit Normalizing Flow for Arbitrary-Scale Image Super-Resolution. , 2023, , .		2

#	ARTICLE	IF	CITATIONS
5595	Cascaded Local Implicit Transformer for Arbitrary-Scale Super-Resolution. , 2023, , .		3
5596	Real-time 6K Image Rescaling with Rate-distortion Optimization. , 2023, , .		0
5597	Perception-Oriented Single Image Super-Resolution using Optimal Objective Estimation. , 2023, , .		0
5598	Towards High-Quality and Efficient Video Super-Resolution via Spatial-Temporal Data Overfitting. , 2023, , .		1
5601	PCT-GAN: A Real CT Image Super-Resolution Model for Trabecular Bone Restoration. , 2023, , .		0
5603	High-Throughput Microscopy Image Deblurring with Graph Reasoning Attention Network. , 2023, , .		1
5605	Outdoor Millimeter-Wave Picocell Placement using Drone-based Surveying and Machine Learning. , 2023, , .		0
5609	Single image super-resolution: a comprehensive review and recent insight. Frontiers of Computer Science, 2024, 18, .	1.6	3
5612	Spatial Transformer Generative Adversarial Network for Image Super-Resolution. Lecture Notes in Computer Science, 2023, , 399-411.	1.0	0
5613	A DenseNet-Based Learning Framework Toward Maritime End-to-End Autoencoder Communication Systems. , 2023, , .		0
5615	RATSR: A Region Adaptive Transformer for Image Super-Resolution Based on Heat Feature Map. , 2023, , .		0
5616	Multi-Scale and Multi-Path Networks for Simultaneous Enhancement and Super-Resolution of Underwater Images. , 2023, , .		0
5617	ETIDCNet:Efficient Text Image Deblurring Convolution Neural Network. , 2023, , .		0
5618	Super-Resolution Method Based on Improved Generative Adversarial Networks. , 2023, , .		0
5627	Perception-Oriented Omnidirectional Image Super-Resolution Based on Transformer Network. , 2023, , .		0
5628	Uncertainty Aware Implicit Image Function for Arbitrary-Scale Super-Resolution. , 2023, , .		0
5629	Transformation Consistency for Remote Sensing Image Super-Resolution. , 2023, , .		0
5630	LSR: A Light-Weight Super-Resolution Method. , 2023, , .		1

#	ARTICLE	IF	CITATIONS
5632	SGSR: A Saliency-Guided Image Super-Resolution Network. , 2023, , .		0
5633	Inter-Scale Sure-Let Image Restoration with Deep Unrolled Image Prior. , 2023, , .		0
5634	Physics driven deep learning based simulation of side scan sonar images. , 2023, , .		0
5635	Super-Resolution MRH Reconstruction for Mouse Models. Lecture Notes in Computer Science, 2023, , 215-226.	1.0	0
5639	Remote Sensing Image Super-Resolution Using Deep Convolutional Neural Networks and Autoencoder. Lecture Notes in Networks and Systems, 2023, , 161-171.	0.5	0
5640	Lightweight and Efficient Attention-Based Superresolution Generative Adversarial Networks. Communications in Computer and Information Science, 2023, , 165-181.	0.4	0
5644	Image Super-Resolution of Residual-Dense Connected Networks in Unmanned Deep-Sea Exploration Equipment. , 2023, , .		0
5646	SIEN:Spatial Information Enhancement Network for Blind Super-Resolution. , 2023, , .		0
5649	Mixed Distorted Image Restoration Based on Residual Double Deep Q Network. , 2023, , .		0
5651	A Comparison of Neural Network-Based Super-Resolution Models on 3D Rendered Images. Lecture Notes in Computer Science, 2023, , 45-55.	1.0	0
5656	FPGA Implementation of Image Super-Resolution Based on Bicubic Interpolation and CNN. , 2023, , .		0
5657	An Underwater Features Matching System Integrated with Image Enhancement. , 2023, , .		0
5658	Conditional Convolution Residual Network for Efficient Super-Resolution. Lecture Notes in Computer Science, 2023, , 86-97.	1.0	0
5660	Single Image Super-Resolution with Sequential Multi-axis Blocked Attention. Lecture Notes in Computer Science, 2023, , 136-148.	1.0	0
5661	SS <sup>2</sup> SR: Exploring a Double-Win Transformer-Based Framework for Ideal and Blind Super-Resolution. Lecture Notes in Computer Science, 2023, , 522-537.	1.0	0
5663	LIVSR: A Unidirectional Recurrent Video Super-Resolution Framework with Gaussian Detail Enhancement and Local Information Interaction Modules. Lecture Notes in Computer Science, 2023, , 77-88.	1.0	0
5664	DWA: Differential Wavelet Amplifier for Image Super-Resolution. Lecture Notes in Computer Science, 2023, , 232-243.	1.0	0
5665	Application of machine learning in solid state physics. Solid State Physics, 2023, , 1-65.	1.3	0

#	ARTICLE	IF	CITATIONS
5684	Phenotype-preserving metric design for high-content image reconstruction by generative inpainting. , 2023, , .		0
5686	MLFEN: Multi-scale Long-Distance Feature Extraction Network. Lecture Notes in Computer Science, 2023, , 189-199.	1.0	0
5688	Inter-slice Consistency for Unpaired Low-Dose CT Denoising Using Boosted Contrastive Learning. Lecture Notes in Computer Science, 2023, , 238-247.	1.0	0
5689	Revolutionizing Space Health (Swin-FSR): Advancing Super-Resolution of Fundus Images for SANS Visual Assessment Technology. Lecture Notes in Computer Science, 2023, , 693-703.	1.0	1
5690	Low-Dose CT Image Super-Resolution Network with Dual-Guidance Feature Distillation and Dual-Path Content Communication. Lecture Notes in Computer Science, 2023, , 98-108.	1.0	1
5691	Single-subject Multi-contrast MRI Super-resolution via Implicit Neural Representations. Lecture Notes in Computer Science, 2023, , 173-183.	1.0	1
5693	SRDRN-IR: A Super Resolution Deep Residual Neural Network for IR Images. , 2023, , .		0
5701	Research on Efficient Pyramid Attention Back-Projection Network for Medical Image Super-Resolution. , 2023, , .		0
5702	Enhancing the Resolution of Micro-CT Images of Rock Samples via Unsupervised Machine Learning based on a Diffusion Model. , 2023, , .		0
5707	Face Recognition Using the Improved SRGAN. , 2023, , .		0
5709	Image Super-Resolution Algorithm Based UAV Forensics Method. , 2023, , .		0
5713	Single Image Super-Resolution Based on Capsule Neural Networks. Lecture Notes in Computer Science, 2023, , 113-128.	1.0	0
5720	Reconstruction of 3D Fetal Brain MRI from 2D Cross-Sectional Acquisitions Using Unsupervised Learning Network. Lecture Notes in Computer Science, 2024, , 33-41.	1.0	0
5721	Arbitrary Reduction of MRI Inter-slice Spacing Using Hierarchical Feature Conditional Diffusion. Lecture Notes in Computer Science, 2024, , 23-32.	1.0	0
5724	Six Convolutional Layered Deep Convolutional Neural Network Based Real Time Single Image Super Resolution. , 2023, , .		0
5725	Multi-Scale Spatial Transformation and Attention Based Super-Resolution Reconstruction Algorithm. , 2023, , .		0
5726	Resonant Mode Recognition with Convolutional Neural Network. , 2023, , .		0
5728	Enhanced Lightweight Network with CNN and Improved Transformer for Image Super-Resolution. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
5729	The Impact of Downsampling Methods on Face Recognition in Electronic Identity Card. , 2023, , .		0
5731	Multi-scale Super-resolution Image Reconstruction based on Visual Feature and Scale Feature Transformation. , 2023, , .		0
5732	Deep learning methodologies for chemical dispersion map reconstruction. , 2023, , .		0
5733	Super-resolution techniques for Sentinel-5P products. , 2023, , .		0
5735	Generative Adversarial Networks for the Satellite Data Super Resolution Based on the Transformers with Attention. , 2023, , .		0
5736	Evaluation of Resampling Techniques to Provide Better Synthesized Input Data to Super-Resolution Deep Learning Model Training. , 2023, , .		0
5737	Enhancing Spatial Resolution of Building Datasets Using Transformer-Based Single-Image Super-Resolution. , 2023, , .		0
5738	Despeckling of SAR Images Using CNN and Multiresolution Fusion. , 2023, , .		0
5739	Enhancing Visual Understanding by Removing Dithering with Global and Self-Conditioned Transformation. , 2023, , .		0
5741	Super-Resolution of Remote Sensing Imagery Using Implicit Degradation Modeling. , 2023, , .		0
5745	Low-Complexity Streaming Speech Super-Resolution. , 2023, , .		0
5746	Deep Learning Based Channel Estimation in High Mobility Communications Using Bi-RNN Networks. , 2023, , .		2
5750	Sensing Image Super-resolution Reconstruction Based on the UNet Decoding Network. , 2023, , .		0
5771	Comparative Study of Image Resolution Techniques in the Detection of Cancer Using Neural Networks. Communications in Computer and Information Science, 2023, , 187-202.	0.4	0
5772	Denoising Diffusion Algorithm for Single Image Inplane Super-Resolution in CBCT Scans of the Mandible. , 2023, , .		0
5777	Image super resolution using deep convolutional network. AIP Conference Proceedings, 2023, , .	0.3	0
5779	MANet: End-to-end MIMO wireless communication network. , 2023, , .		0
5780	Video Super-Resolution With Multi-Level Attention. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
5783	Computed Tomography Image Restoration Using a Quantum-Based Deep Unrolled Denoiser and a Plug-and-Play Framework. , 2023, , .		0
5785	COVID-SR: A Priori Knowledge-Based Multi-Scale Fusion Super-Resolution Network For COVID-19 CT Images. , 2023, , .		0
5789	An Improved Image Super-Resolution Algorithm for Percutaneous Endoscopic Lumbar Discectomy. Communications in Computer and Information Science, 2024, , 149-160.	0.4	0
5790	EfficientSRFace: An Efficient Network with Super-Resolution Enhancement for Accurate Face Detection. Lecture Notes in Computer Science, 2023, , 74-87.	1.0	0
5802	Transformer-Based Video Deinterlacing Method. Lecture Notes in Computer Science, 2024, , 357-369.	1.0	0
5809	A Lightweight Multi-Scale Based Attention Network for Image Super-Resolution. , 2023, , .		0
5814	Experiments with a Number of Convolutional Neural Networks for Evaluating the Super-Resolution Technique. , 2023, , .		0
5817	Suppressing Rain Streak Weather Noise for Recognizing Overturned Accidental Car Vehicle License Plate. , 2023, , .		0
5821	Analysis and Review of Image Super Resolution for Low Light Enhancement. , 2023, , .		0
5827	Optical image super-resolution in dark underwater background via SwinIR. , 2023, , .		0
5829	A Comparative Study on Implicit Neural Representation-based Arbitrary-Scale Image Super-Resolution. , 2023, , .		0
5839	Lightweight Network for Single Image Super-Resolution with Arbitrary Scale Factor. , 0, , .		0
5842	Deep Learning-based Super-Resolution on the Cloud: Focus on Face and Text Enhancement. , 2023, , .		0
5844	Multi-scale feature feedback network for single image super-resolution. , 2023, , .		0
5846	Tuberculosis Disease Diagnosis Using Controlled Super Resolution. Lecture Notes in Computer Science, 2023, , 3-15.	1.0	1
5847	Multiple Sentinel-2 Images Super-Resolution with Google Earth Pro Images. , 2023, , .		0
5848	A Low-Complexity Convolution Network for Upscale Super-Resolution Image. , 2023, , .		0
5854	Super-Resolution of UAVs Thermal Images Guided by Visible Images. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
5855	PET Imaging Super-Resolution Using Attention-Enhanced Global Residual Dense Network. , 2023, , .		0
5870	Separable Modulation Network for Efficient Image Super-Resolution. , 2023, , .		1
5877	Scene Parsing Using Fully Convolutional Network for Semantic Segmentation. , 2023, , .		6
5878	STIRER: A Unified Model for Low-Resolution Scene Text Image Recovery and Recognition. , 2023, , .		0
5880	Moby: Empowering 2D Models for Efficient Point Cloud Analytics on the Edge. , 2023, , .		0
5881	Domain-irrelevant Feature Learning for Generalizable Pan-sharpening. , 2023, , .		0
5884	Style Transfer Meets Super-Resolution: Advancing Unpaired Infrared-to-Visible Image Translation with Detail Enhancement. , 2023, , .		0
5885	LSR++: An Efficient and Tiny Model for Image Super-Resolution. , 2023, , .		0
5888	Enhanced Residual Fourier Transformation Network for Lightweight Image Super-resolution. , 2023, , .		0
5890	Channel Estimation Algorithm Based on Deep Learning for OFDM System. , 2023, , .		0
5891	BliMSR: Blind Degradation Modelling for Generating High-Resolution Medical Images. Lecture Notes in Computer Science, 2024, , 64-78.	1.0	0
5892	ClassDegSR: A Fast Network for Degraded Image Super Resolution Based on Degrade Degree Classification. , 2023, , .		0
5896	A review of research on super-resolution image reconstruction based on deep learning. , 2023, , .		0
5897	Explicit Exploring Geometric Modality for Shape-Enhanced Single-View 3D Face Reconstruction. Communications in Computer and Information Science, 2023, , 88-98.	0.4	0
5898	Scale-arbitrary Infrared Super-resolution Network based on Channel Attention Mechanisms. , 2023, , .		0
5900	An Infrared Image Detection Method of Substation Equipment Combining Iresgroup Structure and Centernet. , 2023, , .		0
5903	Evaluating Deep Neural Network Models on Ultrasound Single Image Super Resolution. , 2023, , .		0
5904	Image super resolution via multi-regularization combining hybrid Tikhonov-TV prior and deep denoiser prior. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
5905	Super-resolution of SAR images using residual four-channel large kernel attention. , 2023, , .		0
5907	Destruction-Restoration Suppresses Data Protection Perturbations against Diffusion Models. , 2023, , .		0
5909	Building Footprint Extraction in Dense Areas using Super Resolution and Frame Field Learning. , 2023, , .		0
5912	Infrared image super-resolution enhancement technology based on improved real-ESRGAN. , 2023, , .		0
5913	Amber Gemstones Colour Classification by CNN. , 2023, , .		0
5916	Binarizing Super-Resolution Neural Network Without Batch Normalization. Lecture Notes in Computer Science, 2024, , 65-76.	1.0	0
5917	Deformable Spatial-Temporal Attention for Lightweight Video Super-Resolution. Lecture Notes in Computer Science, 2024, , 482-493.	1.0	0
5920	Image Generation Based Intra-class Variance Smoothing for Fine-Grained Visual Classification. Lecture Notes in Computer Science, 2024, , 447-459.	1.0	0
5921	Fixed pattern noise removal for solar images using a Self-Supervised Destriping Network. , 2023, , .		0
5924	Discriminative Activation of Information Is What You Need in Image Super-Resolution Transformer. Lecture Notes in Computer Science, 2024, , 482-493.	1.0	0
5928	DP-INNet: Dual-Path Implicit Neural Network for Spatial and Spectral Features Fusion in Pan-Sharpener. Lecture Notes in Computer Science, 2024, , 268-279.	1.0	0
5930	SemiRefiner: Learning to Refine Semi-realistic Paintings. Lecture Notes in Computer Science, 2024, , 275-286.	1.0	0
5937	On the use of deep learning for phase recovery. Light: Science and Applications, 2024, 13, .	7.7	3
5944	High-Resolution Image Synthesis Based Channel Estimation. , 2023, , .		0
5945	Context-Adaptive Deep Learning for Efficient Image Parsing in Remote Sensing: An Automated Parameter Selection Approach. , 2023, , .		0
5948	Motion-Based Convolutional Neural Networks for Super-Resolution from Compressed Videos. , 2023, , .		0
5964	Reparameterization for Improved Training and Weight Optimization in Single Image Super-Resolution Networks. , 2023, , .		0
5973	A Benchmark for Chinese-English Scene Text Image Super-resolution. , 2023, , .		0



#	ARTICLE	IF	CITATIONS
5974	HSR-Diff: Hyperspectral Image Super-Resolution via Conditional Diffusion Models. , 2023, , .		1
5975	Learned Image Reasoning Prior Penetrates Deep Unfolding Network for Panchromatic and Multi-Spectral Image Fusion. , 2023, , .		0
5976	On the Effectiveness of Spectral Discriminators for Perceptual Quality Improvement. , 2023, , .		1
5977	Feature Modulation Transformer: Cross-Refinement of Global Representation via High-Frequency Prior for Image Super-Resolution. , 2023, , .		0
5978	PanFlowNet: A Flow-Based Deep Network for Pan-sharpening. , 2023, , .		0
5979	Efficient neural supersampling on a novel gaming dataset. , 2023, , .		0
5980	Boosting Single Image Super-Resolution via Partial Channel Shifting. , 2023, , .		0
5981	Self-supervised Character-to-Character Distillation for Text Recognition. , 2023, , .		0
5982	Downscaled Representation Matters: Improving Image Rescaling with Collaborative Downscaled Images. , 2023, , .		1
5983	LMR: A Large-Scale Multi-Reference Dataset for Reference-based Super-Resolution. , 2023, , .		1
5992	Wavelet-aware Transformer Network for Multi-contrast Knee MRI Super-resolution. , 2023, , .		0
5993	Deep Residual Fourier and Self-Attention for Arbitrary Scale MRI Super-Resolution. , 2023, , .		0
5994	Enhancing Image Rescaling Using High Frequency Guidance and Attention in Downscaling and Upscaling Network. Lecture Notes in Computer Science, 2024, , 427-439.	1.0	0
5998	Improving Fingerprint Classification Accuracy Using Image Enhancement Deep Learning Models. , 2023, , .		0
5999	Super-Resolution Reconstruction Algorithm Based on Improved ESRGAN. , 2023, , .		0
6000	Uncovering and Understanding Smart TV Users'™ Picture Quality Preferences via Big Data Analytics. , 2023, , .		0
6001	Fine-Grained Urban Population Distribution Estimation Using Image Super-Resolution Model with Rich Auxiliary Information. , 2023, , .		0
6004	Restoration of Face Mask-Induced Speech Intelligibility Degradation Via Neural Bandwidth Extension. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
6005	Use of Attention Mechanism for Decoder in Deep Learning-based Image Super Resolution. , 2023, , .		0
6014	Development Of Deep Neural Network Model For Images Remotely Sensed Through Multi-Image Super Resolution Technique. , 2023, , .		0
6015	Second-Order Gradient Loss Guided Single-Image Super-Resolution. Communications in Computer and Information Science, 2024, , 17-28.	0.4	0
6016	Non-Local Spatial-Wise and Global Channel-Wise Transformer for Efficient Image Super-Resolution. Lecture Notes in Computer Science, 2024, , 70-85.	1.0	0
6017	A Lightweight Local Attention Network for Image Super-Resolution. Lecture Notes in Computer Science, 2024, , 370-384.	1.0	0
6018	Differentiable Neural Architecture Search Based on Efficient Architecture for Lightweight Image Super-Resolution. Lecture Notes in Computer Science, 2024, , 169-183.	1.0	0
6019	MetaVSR: A Novel Approach to Video Super-Resolution for Arbitrary Magnification. Lecture Notes in Computer Science, 2024, , 300-313.	1.0	0
6021	Image Super-Resolution and FPGA Hardware Design. , 2023, , .		0
6022	Look for Tiny Rosettes from Drone Imagery. , 2023, , .		0
6023	Luma-only Resampling-based Video Coding with CNN-Based Super Resolution. , 2023, , .		0
6024	Superresolution reconstruction based on complementary composite structural illumination. , 2023, , .		0
6027	Multi-Scale Style Aggregation Transformer-Based Network (MSAT-Net) for Multi-Contrast MRI Restoration: Super Resolution and Motion Artifact Reduction. , 2023, , .		0
6028	MoMSGAN: Mode Collapse based Degradation Agnostic Multi-Scale Super-Resolution of Medical Images. , 2023, , .		0
6029	Dual Stage Semantic Information Based Generative Adversarial Network For Image Super-Resolution. , 2023, , .		0
6030	MATNet: MRI Super-Resolution with Multiple Attention Mechanisms. , 2023, , .		0
6040	Low-Light Image Enhancement via Unsupervised Learning. Lecture Notes in Computer Science, 2024, , 232-243.	1.0	0
6057	High-Resolution Face Image Enhancement via Generative Adversarial Networks. , 2023, , .		0
6058	Advancing Quality and Detail: Enhanced-LapSRN for Chip Socket Image Super-Resolution. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
6060	Lightweight Image Super-Resolution: The Shift Ladder Transformer Approach. , 2023, , .		0
6061	Research on Multimodal Emotion Recognition Based on Double Deep Networks and FR-ABCR. , 2023, , .		0
6062	Learning a Residual Fusion Network for SAR Image Despeckling. , 2023, , .		0
6067	Performance Analysis of Adaptive Histogram Equalization-Based Image Enhancement Schemes. , 2023, , .		0
6068	Extended ERDBS: Efficient Search for Image Super-Resolution Using Residual Dense Blocks. , 2023, , .		0
6077	Super-Resolution via Deep Enhanced Residual Generative Network with Adversarial Attentive Mechanism. , 2023, , .		0
6079	Image Steered Super Resolution based Melanoma Cancer Detection. , 2023, , .		0
6085	A Deep Neural Network for Time-Fluctuation Spatial Noise Suppression in Optical Correlation Imaging based on a Progressive Growing Adversarial Network. , 2022, , .		0
6090	FASRGAN: Feature Attention Super Resolution Generative Adversarial Network. Lecture Notes in Networks and Systems, 2024, , 231-240.	0.5	0
6091	Real-Time Image Super-Resolution using Drone through GFPGAN and Nvidia Jetson Nano. , 2023, , .		0
6092	Efficient Image Feature Extraction through Simultaneous Training of Nested U-Nets. , 2023, , .		0
6103	Deep Learning-Based Pixel Interpolation in Spatial-Domain Phase Shifting Digital Holography. , 2022, , .		0
6106	Improving the Resolution of Images Using Super-Resolution Generative Adversarial Networks. Lecture Notes in Networks and Systems, 2024, , 68-77.	0.5	0
6107	Image Enhancement Using Holistic Transformer Super Resolution. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2024, , 209-223.	0.5	0
6112	Cotton Leaf Disease Detection using Courier Super Resolution Network (CSRN). , 2023, , .		0