

Deep learning for pixel-level image fusion: Recent adva

Information Fusion

42, 158-173

DOI: [10.1016/j.inffus.2017.10.007](https://doi.org/10.1016/j.inffus.2017.10.007)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Robust feature matching via Gaussian field criterion for remote sensing image registration. Journal of Real-Time Image Processing, 2018, 15, 523-536.	2.2	6
2	A Convolutional Neural Network Based on Double-tower Structure for Underwater Terrain Classification. , 2018, , .		0
3	Fully Convolutional Networks for Multi-Focus Image Fusion. , 2018, , .		5
4	Infrared and Visible Image Fusion in Realistic Streetscape. , 2018, , .		0
5	Fusing Infrared and Visible Images of Different Resolutions via Total Variation Model. Sensors, 2018, 18, 3827.	2.1	44
6	Contrast Enhancement for Visible-Infrared Image Using Image Fusion and Sharpen Filters. , 2018, , .		10
7	A New Image and Video Fusion Method Based on Cross Bilateral Filter. , 2018, , .		5
8	Algebraic Multi-Grid Based Multi-Focus Image Fusion Using Watershed Algorithm. IEEE Access, 2018, 6, 47082-47091.	2.6	12
9	Visible and Infrared Image Fusion for Space Debris Recognition with Convolutional Sparse Representaiton. , 2018, , .		6
10	Exploiting fusion architectures for multispectral pedestrian detection and segmentation. Applied Optics, 2018, 57, D108.	0.9	20
11	A novel extended depth of field process based on nonsubsamped shearlet transform by estimating optimal range in microscopic systems. Optics Communications, 2018, 429, 88-99.	1.0	3
12	Fully Convolutional Network-Based Multifocus Image Fusion. Neural Computation, 2018, 30, 1775-1800.	1.3	71
13	Review of the pansharpener methods for remote sensing images based on the idea of meta-analysis: Practical discussion and challenges. Information Fusion, 2019, 46, 102-113.	11.7	214
14	Functions for aboveground biomass estimation derived from satellite images data in Mediterranean agroforestry systems. Agroforestry Systems, 2019, 93, 1485-1500.	0.9	15
15	Image Fusion Through Deep Convolutional Neural Network. , 2019, , 37-52.		8
16	Multi-focus image fusion based on joint sparse representation and optimum theory. Signal Processing: Image Communication, 2019, 78, 125-134.	1.8	40
17	Conditional Random Field Model for Robust Multi-Focus Image Fusion. IEEE Transactions on Image Processing, 2019, 28, 5636-5648.	6.0	29
19	Infrared and Visible Image Fusion through Details Preservation. Sensors, 2019, 19, 4556.	2.1	20

#	ARTICLE	IF	CITATIONS
20	Multifocus image fusion using convolutional neural networks in the discrete wavelet transform domain. <i>Multimedia Tools and Applications</i> , 2019, 78, 34483-34512.	2.6	26
21	Multi-Scale Visual Attention Deep Convolutional Neural Network for Multi-Focus Image Fusion. <i>IEEE Access</i> , 2019, 7, 114385-114399.	2.6	66
22	SiamFT: An RGB-Infrared Fusion Tracking Method via Fully Convolutional Siamese Networks. <i>IEEE Access</i> , 2019, 7, 122122-122133.	2.6	53
23	Plantar Fasciitis Detection Based on Deep Learning Architecture. , 2019, , .		0
24	Multi-focus image fusion based on smooth and iteratively restore filter. <i>Multimedia Tools and Applications</i> , 2019, 78, 35027-35052.	2.6	1
25	Survey of Deep-Learning Approaches for Remote Sensing Observation Enhancement. <i>Sensors</i> , 2019, 19, 3929.	2.1	92
26	FuseGAN: Learning to Fuse Multi-Focus Image via Conditional Generative Adversarial Network. <i>IEEE Transactions on Multimedia</i> , 2019, 21, 1982-1996.	5.2	129
27	Fusion of Medical Sensors Using Adaptive Cloud Model in Local Laplacian Pyramid Domain. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1172-1183.	2.5	20
28	Multispectral and hyperspectral image fusion with spatial-spectral sparse representation. <i>Information Fusion</i> , 2019, 49, 262-270.	11.7	95
29	Deep Multigrained Cascade Forest for Hyperspectral Image Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 8169-8183.	2.7	39
30	Deep learning for noninvasive classification of clustered horticultural crops â€œ A case for banana fruit tiers. <i>Postharvest Biology and Technology</i> , 2019, 156, 110922.	2.9	55
31	Multispectral visual detection method for conveyor belt longitudinal tear. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 143, 246-257.	2.5	43
32	Scale-invariant structure saliency selection for fast image fusion. <i>Neurocomputing</i> , 2019, 356, 119-130.	3.5	11
33	Deep learning in remote sensing applications: A meta-analysis and review. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 152, 166-177.	4.9	1,243
34	Spatiotemporal Image Fusion in Remote Sensing. <i>Remote Sensing</i> , 2019, 11, 818.	1.8	117
35	Convolutional Autoencoder-Based Multispectral Image Fusion. <i>IEEE Access</i> , 2019, 7, 35673-35683.	2.6	91
36	Multisource and Multitemporal Data Fusion in Remote Sensing: A Comprehensive Review of the State of the Art. <i>IEEE Geoscience and Remote Sensing Magazine</i> , 2019, 7, 6-39.	4.9	302
37	A New Dictionary Construction Based Multimodal Medical Image Fusion Framework. <i>Entropy</i> , 2019, 21, 267.	1.1	14

#	ARTICLE	IF	CITATIONS
38	An Optical Flow-Based Approach for Minimally Divergent Velocimetry Data Interpolation. International Journal of Biomedical Imaging, 2019, 2019, 1-14.	3.0	2
39	Multi-scale convolutional neural network for multi-focus image fusion. Image and Vision Computing, 2019, 85, 26-35.	2.7	60
40	Efficient misalignment-robust multi-focus microscopical images fusion. Signal Processing, 2019, 161, 111-123.	2.1	12
41	Poisson Reconstruction-Based Fusion of Infrared and Visible Images via Saliency Detection. IEEE Access, 2019, 7, 20676-20688.	2.6	15
42	Missing data recovery using data fusion of incomplete complementary data sets: A particle image velocimetry application. Physics of Fluids, 2019, 31, .	1.6	28
43	Ensemble of CNN for multi-focus image fusion. Information Fusion, 2019, 51, 201-214.	11.7	151
44	Multi-Focus Image Fusion Based on Adaptive Dual-Channel Spiking Cortical Model in Non-Subsampled Shearlet Domain. IEEE Access, 2019, 7, 56367-56388.	2.6	40
45	Multimodal Image Fusion Based on a Convolutional Elastic Network. , 2019, , .		0
46	Pyramid Pooling Dense Convolutional Neural Network for Multi-focus Image Fusion. , 2019, , .		0
47	A Novel Synchronized Fusion Model for Multi-Band Images. IEEE Access, 2019, 7, 139196-139211.	2.6	3
48	Infrared and Visible Image Fusion Based on CLAHE and Sparse Representation. , 2019, , .		1
49	Infrared and Visible Image Fusion via Multi-discriminators Wasserstein Generative Adversarial Network. , 2019, , .		2
50	Green Fluorescent Protein and Phase-Contrast Image Fusion via Generative Adversarial Networks. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-11.	0.7	13
51	Multi-focus Image Fusion based on Edge-preserving Filters. , 2019, , .		0
52	Visual Question Answering with Dynamic Parameter Prediction using Functional Hashing. , 2019, , .		1
53	Multicomponent Driven Consistency Priors for Simultaneous Decomposition and Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4589-4605.	2.3	8
54	Joint Framework for Image Fusion and Super-Resolution via Multicomponent Analysis and Residual Compensation. IEEE Access, 2019, 7, 174092-174107.	2.6	5
55	FusionGAN: A generative adversarial network for infrared and visible image fusion. Information Fusion, 2019, 48, 11-26.	11.7	954

#	ARTICLE	IF	CITATIONS
56	Brain CT and MRI medical image fusion using convolutional neural networks and a dual-channel spiking cortical model. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 887-900.	1.6	72
57	Waveatom transform-based multimodal medical image fusion. <i>Signal, Image and Video Processing</i> , 2019, 13, 321-329.	1.7	10
58	Infrared and visible image fusion methods and applications: A survey. <i>Information Fusion</i> , 2019, 45, 153-178.	11.7	904
59	Multisource Domain Attribute Adaptation Based on Adaptive Multikernel Alignment Learning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 1897-1908.	5.9	14
60	Nature Inspired Meta-heuristic Algorithms for Deep Learning: Recent Progress and Novel Perspective. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 59-70.	0.5	18
61	CNNs hard voting for multi-focus image fusion. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, 11, 1749-1769.	3.3	22
62	A New Multi-Focus Image Fusion Algorithm and Its Efficient Implementation. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 1374-1384.	5.6	24
63	Zero-Shot Learning Based on Deep Weighted Attribute Prediction. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 2948-2957.	5.9	9
64	Infrared and visible image fusion based on target-enhanced multiscale transform decomposition. <i>Information Sciences</i> , 2020, 508, 64-78.	4.0	229
65	Analysis-synthesis dictionary pair learning and patch saliency measure for image fusion. <i>Signal Processing</i> , 2020, 167, 107327.	2.1	21
66	Fusion of misaligned registered GFP and phase contrast images with convolutional sparse representation and adaptive region energy rule. <i>Microscopy Research and Technique</i> , 2020, 83, 35-47.	1.2	4
67	Application of convolutional neural network to acquisition of clear images for objects with large vertical size in stereo light microscope vision system. <i>Microscopy Research and Technique</i> , 2020, 83, 140-147.	1.2	0
68	Multi-Focus Image Fusion by Hessian Matrix Based Decomposition. <i>IEEE Transactions on Multimedia</i> , 2020, 22, 285-297.	5.2	49
69	MARESyE: A hybrid imaging system for underwater robotic applications. <i>Information Fusion</i> , 2020, 55, 16-29.	11.7	29
70	Remote sensing image fusion based on two-stream fusion network. <i>Information Fusion</i> , 2020, 55, 1-15.	11.7	198
71	Integrating model- and data-driven methods for synchronous adaptive multi-band image fusion. <i>Information Fusion</i> , 2020, 54, 145-160.	11.7	23
72	Infrared and visible image fusion via detail preserving adversarial learning. <i>Information Fusion</i> , 2020, 54, 85-98.	11.7	270
73	IFCNN: A general image fusion framework based on convolutional neural network. <i>Information Fusion</i> , 2020, 54, 99-118.	11.7	606

#	ARTICLE	IF	CITATIONS
74	Fusion of medical images using deep belief networks. Cluster Computing, 2020, 23, 1439-1453.	3.5	62
75	A Dual-Branch Attention fusion deep network for multiresolution remote sensing image classification. Information Fusion, 2020, 58, 116-131.	11.7	47
76	Brain Medical Image Fusion Using L_2 -Norm-Based Features and Fuzzy-Weighted Measurements in 2-D Littlewood-Paley EWT Domain. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5900-5913.	2.4	32
77	Hyperspectral image visualization with edge-preserving filtering and principal component analysis. Information Fusion, 2020, 57, 130-143.	11.7	42
78	Pixel-Level Remote Sensing Image Recognition Based on Bidirectional Word Vectors. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1281-1293.	2.7	75
79	Infrared and visible image fusion based on dilated residual attention network. Optik, 2020, 224, 165409.	1.4	11
80	Bayesian estimation of multivariate Gaussian Markov random fields with constraint. Statistics in Medicine, 2020, 39, 4767-4788.	0.8	6
81	Multi-Focus Color Image Fusion Algorithm Based on Super-Resolution Reconstruction and Focused Area Detection. IEEE Access, 2020, 8, 90760-90778.	2.6	17
82	FLGC-Fusion GAN: An Enhanced Fusion GAN Model by Importing Fully Learnable Group Convolution. Mathematical Problems in Engineering, 2020, 2020, 1-13.	0.6	8
83	Image fusion in remote sensing by multi-objective deep learning. International Journal of Remote Sensing, 2020, 41, 9507-9524.	1.3	20
84	Using Wavelet Transforms to Fuse Nighttime Light Data and POI Big Data to Extract Urban Built-Up Areas. Remote Sensing, 2020, 12, 3887.	1.8	37
85	Extraction and excitation deep neural network for pansharpening. Concurrency Computation Practice and Experience, 2023, 35, e6098.	1.4	1
86	Deep gradual flash fusion for low-light enhancement. Journal of Visual Communication and Image Representation, 2020, 72, 102903.	1.7	5
87	Intelligent multimodal medical image fusion with deep guided filtering. Multimedia Systems, 2022, 28, 1449-1463.	3.0	13
88	Adaptive fractional multi-scale edge-preserving decomposition and saliency detection fusion algorithm. ISA Transactions, 2020, 107, 160-172.	3.1	10
89	Two-Scale Multimodal Medical Image Fusion Based on Guided Filtering and Sparse Representation. IEEE Access, 2020, 8, 140216-140233.	2.6	17
90	Bayesian fusion for infrared and visible images. Signal Processing, 2020, 177, 107734.	2.1	72
91	U2Fusion: A Unified Unsupervised Image Fusion Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 502-518.	9.7	569

#	ARTICLE	IF	CITATIONS
92	VIFB: A Visible and Infrared Image Fusion Benchmark. , 2020, , .		96
93	A Comparative Assessment of Multisensor Data Merging and Fusion Algorithms for High-Resolution Surface Reflectance Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4044-4059.	2.3	11
94	Understanding deep learning in land use classification based on Sentinel-2 time series. Scientific Reports, 2020, 10, 17188.	1.6	99
95	Pseudo color image fusion based on rattlesnake's visual receptive field model. , 2020, , .		3
96	Image Fusion. , 2020, , .		9
97	An Image Decomposition Fusion Method for Medical Images. Mathematical Problems in Engineering, 2020, 2020, 1-11.	0.6	1
98	Multi-focus image fusion with Siamese self-attention network. IET Image Processing, 2020, 14, 1339-1346.	1.4	13
99	Unsupervised densely attention network for infrared and visible image fusion. Multimedia Tools and Applications, 2020, 79, 34685-34696.	2.6	13
100	Infrared and Visible Image Fusion Techniques Based on Deep Learning: A Review. Electronics (Switzerland), 2020, 9, 2162.	1.8	29
101	Infrared and Visible Image Fusion Using a Deep Unsupervised Framework With Perceptual Loss. IEEE Access, 2020, 8, 206445-206458.	2.6	11
102	FuseVis: Interpreting Neural Networks for Image Fusion Using Per-Pixel Saliency Visualization. Computers, 2020, 9, 98.	2.1	8
103	Use of Very High Spatial Resolution Commercial Satellite Imagery and Deep Learning to Automatically Map Ice-Wedge Polygons across Tundra Vegetation Types. Journal of Imaging, 2020, 6, 137.	1.7	39
104	Multi-Modal Medical Image Fusion Based on FusionNet in YIQ Color Space. Entropy, 2020, 22, 1423.	1.1	5
105	Data-driven prognosis method using hybrid deep recurrent neural network. Applied Soft Computing Journal, 2020, 93, 106351.	4.1	66
106	Pan-GAN: An unsupervised pan-sharpening method for remote sensing image fusion. Information Fusion, 2020, 62, 110-120.	11.7	276
107	Predicting Biomass and Yield in a Tomato Phenotyping Experiment Using UAV Imagery and Random Forest. Frontiers in Artificial Intelligence, 2020, 3, 28.	2.0	55
108	Fusion of Brain PET and MRI Images Using Tissue-Aware Conditional Generative Adversarial Network With Joint Loss. IEEE Access, 2020, 8, 6368-6378.	2.6	17
109	A generative adversarial network with structural enhancement and spectral supplement for pan-sharpening. Neural Computing and Applications, 2020, 32, 18347-18359.	3.2	3

#	ARTICLE	IF	CITATIONS
110	An Improved Multifocus Image Fusion Algorithm Using Deep Learning and Adaptive Fuzzy Filter. , 2020, ,		2
111	A scheme for edge-based multi-focus Color image fusion. Multimedia Tools and Applications, 2020, 79, 24089-24117.	2.6	6
112	An adaptive two-scale biomedical image fusion method with statistical comparisons. Computer Methods and Programs in Biomedicine, 2020, 196, 105603.	2.6	15
113	Infrared and visible image fusion via gradientlet filter. Computer Vision and Image Understanding, 2020, 197-198, 103016.	3.0	46
114	Infrared and visible image fusion with supervised convolutional neural network. Optik, 2020, 219, 165120.	1.4	19
115	Change Detection of Deforestation in the Brazilian Amazon Using Landsat Data and Convolutional Neural Networks. Remote Sensing, 2020, 12, 901.	1.8	123
116	DDcGAN: A Dual-Discriminator Conditional Generative Adversarial Network for Multi-Resolution Image Fusion. IEEE Transactions on Image Processing, 2020, 29, 4980-4995.	6.0	534
117	Deep learning in medical image registration: a review. Physics in Medicine and Biology, 2020, 65, 20TR01.	1.6	330
118	MGMDcGAN: Medical Image Fusion Using Multi-Generator Multi-Discriminator Conditional Generative Adversarial Network. IEEE Access, 2020, 8, 55145-55157.	2.6	41
119	An Efficient Method for Infrared and Visual Images Fusion Based on Visual Attention Technique. Remote Sensing, 2020, 12, 781.	1.8	5
120	NestFuse: An Infrared and Visible Image Fusion Architecture Based on Nest Connection and Spatial/Channel Attention Models. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9645-9656.	2.4	275
121	Image Processing-Based Pitting Corrosion Detection Using Metaheuristic Optimized Multilevel Image Thresholding and Machine-Learning Approaches. Mathematical Problems in Engineering, 2020, 2020, 1-19.	0.6	44
122	Infrared and Visible Image Fusion Based on a Latent Low-Rank Representation Nested With Multiscale Geometric Transform. IEEE Access, 2020, 8, 110214-110226.	2.6	19
123	Multi-focus image fusion: A Survey of the state of the art. Information Fusion, 2020, 64, 71-91.	11.7	175
124	Multilevel dense neural network for pan-sharpening. International Journal of Remote Sensing, 2020, 41, 7217-7232.	1.3	4
125	DSiamMFT: An RGB-T fusion tracking method via dynamic Siamese networks using multi-layer feature fusion. Signal Processing: Image Communication, 2020, 84, 115756.	1.8	47
126	A Novel Patch-Based Multi-Exposure Image Fusion Using Super-Pixel Segmentation. IEEE Access, 2020, 8, 39034-39045.	2.6	19
127	Spectral enhancement of Landsat OLI images by using Hyperion data: a comparison between multilayer perceptron and radial basis function networks. Earth Science Informatics, 2020, 13, 493-507.	1.6	5

#	ARTICLE	IF	CITATIONS
128	Attention deep neural network for lane marking detection. Knowledge-Based Systems, 2020, 194, 105584.	4.0	32
129	Infrared and Visible Image Fusion Based on the Total Variational Model and Adaptive Wolf Pack Algorithm. IEEE Access, 2020, 8, 2348-2361.	2.6	6
130	Infrared and Visible Image Fusion with a Generative Adversarial Network and a Residual Network. Applied Sciences (Switzerland), 2020, 10, 554.	1.3	18
131	An overview on spectral and spatial information fusion for hyperspectral image classification: Current trends and challenges. Information Fusion, 2020, 59, 59-83.	11.7	165
132	Image fusion via sparse regularization with non-convex penalties. Pattern Recognition Letters, 2020, 131, 355-360.	2.6	16
133	Pixel level fusion techniques for SAR and optical images: A review. Information Fusion, 2020, 59, 13-29.	11.7	140
134	Brain Medical Image Fusion Based on Dual-Branch CNNs in NSST Domain. BioMed Research International, 2020, 2020, 1-15.	0.9	17
135	Infrared and visible image fusion using dual discriminators generative adversarial networks with Wasserstein distance. Information Sciences, 2020, 529, 28-41.	4.0	59
136	Variational Osmosis for Non-Linear Image Fusion. IEEE Transactions on Image Processing, 2020, 29, 5507-5516.	6.0	16
137	Fusion of short-wave infrared and visible near-infrared WorldView-3 data. Information Fusion, 2020, 61, 71-83.	11.7	17
138	Research of Low-Rank Representation and Discriminant Correlation Analysis for Alzheimer's Disease Diagnosis. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-8.	0.7	8
139	Multi-Source and Multi-Temporal Image Fusion on Hypercomplex Bases. Remote Sensing, 2020, 12, 943.	1.8	7
140	AttentionFGAN: Infrared and Visible Image Fusion Using Attention-Based Generative Adversarial Networks. IEEE Transactions on Multimedia, 2021, 23, 1383-1396.	5.2	145
141	Multi-Modal Image Fusion via Convolutional Morphological Component Analysis and Guided Filter. Journal of Circuits, Systems and Computers, 2021, 30, 2130003.	1.0	2
142	A Large-Scale Benchmark Data Set for Evaluating Pansharpening Performance: Overview and Implementation. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 18-52.	4.9	92
143	HPGAN: Hyperspectral Pansharpening Using 3-D Generative Adversarial Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 463-477.	2.7	44
144	Deep unsupervised learning based on color un-referenced loss functions for multi-exposure image fusion. Information Fusion, 2021, 66, 18-39.	11.7	29
145	Deep learning and medical image processing for coronavirus (COVID-19) pandemic: A survey. Sustainable Cities and Society, 2021, 65, 102589.	5.1	300

#	ARTICLE	IF	CITATIONS
146	SEDRFuse: A Symmetric Encoder–Decoder With Residual Block Network for Infrared and Visible Image Fusion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	88
147	Deep learning-based compressed image artifacts reduction based on multi-scale image fusion. Information Fusion, 2021, 67, 195-207.	11.7	22
148	Integrated fusion framework based on semicoupled sparse tensor factorization for spatio-temporal–spectral fusion of remote sensing images. Information Fusion, 2021, 65, 21-36.	11.7	23
149	MFF-GAN: An unsupervised generative adversarial network with adaptive and gradient joint constraints for multi-focus image fusion. Information Fusion, 2021, 66, 40-53.	11.7	151
150	Image retrieval from remote sensing big data: A survey. Information Fusion, 2021, 67, 94-115.	11.7	130
151	A context-driven pansharpening method using superpixel based texture analysis. International Journal of Image and Data Fusion, 2021, 12, 1-22.	0.8	3
152	Texture analysis-based multi-focus image fusion using a modified Pulse-Coupled Neural Network (PCNN). Signal Processing: Image Communication, 2021, 91, 116068.	1.8	12
153	Recent advances and new guidelines on hyperspectral and multispectral image fusion. Information Fusion, 2021, 69, 40-51.	11.7	106
154	Multifocus Image Fusion Method Based on Convolutional Deep Belief Network. IEEJ Transactions on Electrical and Electronic Engineering, 2021, 16, 85-97.	0.8	1
155	Bayesian-based water leakage detection with a novel multisensor fusion method in a deep manned submersible. Applied Ocean Research, 2021, 106, 102459.	1.8	7
156	Rolling bearing fault diagnosis based on feature fusion with parallel convolutional neural network. International Journal of Advanced Manufacturing Technology, 2021, 112, 819-831.	1.5	39
157	Multigrained Attention Network for Infrared and Visible Image Fusion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	20
158	Joint image fusion and super-resolution for enhanced visualization via semi-coupled discriminative dictionary learning and advantage embedding. Neurocomputing, 2021, 422, 62-84.	3.5	19
159	A fusion method for infrared and visible images based on iterative guided filtering and two channel adaptive pulse coupled neural network. International Journal of Image and Data Fusion, 2021, 12, 23-47.	0.8	1
160	A Hybrid Approach to Image Fusion Using DWT and Fuzzy Logic. Algorithms for Intelligent Systems, 2021, , 385-398.	0.5	0
161	Multi-focus Image Fusion for Confocal Microscopy Using U-Net Regression Map. , 2021, 2020, 4317-4323.		4
162	Multimodal Medical Image Fusion Based on Gabor Representation Combination of Multi-CNN and Fuzzy Neural Network. IEEE Access, 2021, 9, 67634-67647.	2.6	16
163	An Infrared and Visible Image Fusion Method Guided by Saliency and Gradient Information. IEEE Access, 2021, 9, 108942-108958.	2.6	6

#	ARTICLE	IF	CITATIONS
164	Infrared and Visible Image Fusion Based on Deep Decomposition Network and Saliency Analysis. IEEE Transactions on Multimedia, 2022, 24, 3314-3326.	5.2	16
165	A Dual-Branch Network for Infrared and Visible Image Fusion. , 2021, , .		35
166	NLRNet: An Efficient Nonlocal Attention ResNet for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	15
167	A New Infrared and Visible Image Fusion Method Based on Generative Adversarial Networks and Attention Mechanism. , 2021, , .		1
168	A Meta-Analysis of Convolutional Neural Networks for Remote Sensing Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3602-3613.	2.3	24
169	A review of deep learning-based three-dimensional medical image registration methods. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4895-4916.	1.1	33
170	Green Fluorescent Protein and Phase Contrast Image Fusion Via Detail Preserving Cross Network. IEEE Transactions on Computational Imaging, 2021, 7, 584-597.	2.6	17
171	Multisite Autism Spectrum Disorder Classification Using Convolutional Neural Network Classifier and Individual Morphological Brain Networks. Frontiers in Neuroscience, 2020, 14, 629630.	1.4	35
172	GAFnet: Group Attention Fusion Network for PAN and MS Image High-Resolution Classification. IEEE Transactions on Cybernetics, 2022, 52, 10556-10569.	6.2	27
173	Hyperspectral Image Super-Resolution via Deep Spatospectral Attention Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7251-7265.	7.2	74
174	Semisupervised Remote Sensing Image Fusion Using Multiscale Conditional Generative Adversarial Network With Siamese Structure. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7066-7084.	2.3	10
175	Different Input Resolutions and Arbitrary Output Resolution: A Meta Learning-Based Deep Framework for Infrared and Visible Image Fusion. IEEE Transactions on Image Processing, 2021, 30, 4070-4083.	6.0	48
176	Multimodal Medical Image Fusion using Rolling Guidance Filter with CNN and Nuclear Norm Minimization. Current Medical Imaging, 2021, 16, 1243-1258.	0.4	13
177	UNIFusion: A Lightweight Unified Image Fusion Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	2.4	11
178	A novel perceptual two layer image fusion using deep learning for imbalanced COVID-19 dataset. PeerJ Computer Science, 2021, 7, e364.	2.7	30
179	Infrared and visible image fusion using multi-scale edge-preserving decomposition and multiple saliency features. Optik, 2021, 228, 165775.	1.4	19
180	Unmanned Aircraft System- (UAS-) Based High-Throughput Phenotyping (HTP) for Tomato Yield Estimation. Journal of Sensors, 2021, 2021, 1-14.	0.6	21
181	Exploiting Superpixels for Multi-Focus Image Fusion. Entropy, 2021, 23, 247.	1.1	5

#	ARTICLE	IF	CITATIONS
182	Medical image fusion and noise suppression with fractional-order total variation and multi-scale decomposition. IET Image Processing, 2021, 15, 1688-1701.	1.4	7
183	Improvement in CNN-Based Multifocus Image Fusion Algorithm with Triangulated Fuzzy Filter. International Journal of Image and Graphics, 2021, 21, 2150020.	1.2	3
184	Multi-modal medical image fusion using LMF-GAN - A maximum parameter infusion technique. Journal of Intelligent and Fuzzy Systems, 2021, 41, 5375-5386.	0.8	23
185	The Current Challenges for Drug Discovery in CNS Remyelination. International Journal of Molecular Sciences, 2021, 22, 2891.	1.8	11
186	Multi-focus image fusion with joint guided image filtering. Signal Processing: Image Communication, 2021, 92, 116128.	1.8	9
187	Deep Learning Classification of Cheatgrass Invasion in the Western United States Using Biophysical and Remote Sensing Data. Remote Sensing, 2021, 13, 1246.	1.8	11
188	A New Scheme of Medical Image Fusion Using Deep Convolutional Neural Network and Local Energy Pixel Domain. , 2021, , .		2
189	Hybrid Methods of Contourlet Transform and Particle Swarm Optimization for Multimodal Medical Image Fusion. , 2021, , .		4
190	A Noisy SAR Image Fusion Method Based on NLM and GAN. Entropy, 2021, 23, 410.	1.1	1
191	Visible and Near-Infrared Image Acquisition and Fusion for Night Surveillance. Chemosensors, 2021, 9, 75.	1.8	12
192	Role of Machine Learning and Artificial Intelligence in Interventional Oncology. Current Oncology Reports, 2021, 23, 70.	1.8	13
193	A Medical Image Fusion Method Based on SIFT and Deep Convolutional Neural Network in the SIST Domain. Journal of Healthcare Engineering, 2021, 2021, 1-8.	1.1	4
194	Edge Computing-Enabled Deep Learning for Real-time Video Optimization in IIoT. IEEE Transactions on Industrial Informatics, 2021, 17, 2842-2851.	7.2	26
195	Extended focused imaging in microscopy using structure tensor and guided filtering. Optics and Lasers in Engineering, 2021, 140, 106549.	2.0	5
196	Pulse Coupled Neural Network-Based Multimodal Medical Image Fusion via Guided Filtering and WSEML in NSCT Domain. Entropy, 2021, 23, 591.	1.1	22
197	Effective method for fusing infrared and visible images. Journal of Electronic Imaging, 2021, 30, .	0.5	4
198	Hyperspectral and multispectral image fusion techniques for high resolution applications: a review. Earth Science Informatics, 2021, 14, 1685-1705.	1.6	31
199	When Wireless Communications Meet Computer Vision in Beyond 5G. IEEE Communications Standards Magazine, 2021, 5, 76-83.	3.6	19

#	ARTICLE	IF	CITATIONS
200	Medical image fusion method by deep learning. International Journal of Cognitive Computing in Engineering, 2021, 2, 21-29.	5.5	168
201	Multimodal medical image fusion review: Theoretical background and recent advances. Signal Processing, 2021, 183, 108036.	2.1	130
202	A Pansharpening Generative Adversarial Network with Multilevel Structure Enhancement and a Multistream Fusion Architecture. Remote Sensing, 2021, 13, 2423.	1.8	3
203	A spatial-channel progressive fusion ResNet for remote sensing classification. Information Fusion, 2021, 70, 72-87.	11.7	46
204	High-Level Information Fusion in a Mission Planning Context. , 2021, , .		0
205	Infrared and visible image fusion using two-layer generative adversarial network. Journal of Intelligent and Fuzzy Systems, 2021, 40, 11897-11913.	0.8	1
206	An infrared and visible image fusion method based on multi-scale transformation and norm optimization. Information Fusion, 2021, 71, 109-129.	11.7	131
207	The Fusion of Multi-Focus Images Based on the Complex Shearlet Features-Motivated Generative Adversarial Network. Journal of Advanced Transportation, 2021, 2021, 1-10.	0.9	2
208	é¥æ,,ÿâ>¼âfê...â††â,çš,,ç¼æ™ºæ±†èšæ-1æ³•. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2021, , 0.3		1
209	Artificial intelligence in the creative industries: a review. Artificial Intelligence Review, 2022, 55, 589-656.	9.7	82
210	Infrared and Visible Image Fusion Based on TRPCA and Visual Saliency Detection. , 2021, , .		1
211	Deep Feature Fusion Based Dual Branch Network for X-ray Security Inspection Image Classification. Applied Sciences (Switzerland), 2021, 11, 7485.	1.3	3
212	Adaptive Multimodal Image Fusion with a Deep Pyramidal Residual Learning Network. Journal of Medical Imaging and Health Informatics, 2021, 11, 2135-2143.	0.2	1
213	Multi-focus images fusion via residual generative adversarial network. Multimedia Tools and Applications, 2022, 81, 12305-12323.	2.6	3
214	Image fusion based on generative adversarial network consistent with perception. Information Fusion, 2021, 72, 110-125.	11.7	51
215	Bibliometric and visualized analysis of deep learning in remote sensing. International Journal of Remote Sensing, 2022, 43, 5534-5571.	1.3	9
216	MFIF-GAN: A new generative adversarial network for multi-focus image fusion. Signal Processing: Image Communication, 2021, 96, 116295.	1.8	20
217	Deep learning for processing and analysis of remote sensing big data: a technical review. Big Earth Data, 2022, 6, 527-560.	2.0	25

#	ARTICLE	IF	CITATIONS
218	Fusion of medical images based on salient features extraction by PSO optimized fuzzy logic in NSST domain. Biomedical Signal Processing and Control, 2021, 69, 102852.	3.5	26
219	An efficient approach for no-reference image quality assessment based on statistical texture and structural features. Engineering Science and Technology, an International Journal, 2022, 30, 101039.	2.0	9
220	Remote Sensing Image Defogging Networks Based on Dual Self-Attention Boost Residual Octave Convolution. Remote Sensing, 2021, 13, 3104.	1.8	49
221	Radiomics analysis combining unsupervised learning and handcrafted features: A multiple disease study. Medical Physics, 2021, 48, 7003-7015.	1.6	9
222	Multi-focus image fusion approach based on CNP systems in NSCT domain. Computer Vision and Image Understanding, 2021, 210, 103228.	3.0	32
223	Application of deep learning models in nonlinear detail map prediction in pansharpening. Journal of Computational Science, 2021, 54, 101431.	1.5	4
224	RFN-Nest: An end-to-end residual fusion network for infrared and visible images. Information Fusion, 2021, 73, 72-86.	11.7	310
225	Basic and deep learning models in remote sensing of soil organic carbon estimation: A brief review. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102389.	1.4	12
226	Benchmarking and comparing multi-exposure image fusion algorithms. Information Fusion, 2021, 74, 111-131.	11.7	61
227	CMFA_Net: A cross-modal feature aggregation network for infrared-visible image fusion. Infrared Physics and Technology, 2021, 118, 103905.	1.3	11
228	EMFusion: An unsupervised enhanced medical image fusion network. Information Fusion, 2021, 76, 177-186.	11.7	95
229	Image fusion meets deep learning: A survey and perspective. Information Fusion, 2021, 76, 323-336.	11.7	275
230	A novel fusion paradigm for multi-channel image denoising. Information Fusion, 2022, 77, 62-69.	11.7	7
231	Deep Learning-based Multi-focus Image Fusion: A Survey and A Comparative Study. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	46
232	MIFFuse: A Multi-Level Feature Fusion Network for Infrared and Visible Images. IEEE Access, 2021, 9, 130778-130792.	2.6	10
233	Multibranch Feature Extraction and Feature Multiplexing Network for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	5
234	VMDM-fusion: a saliency feature representation method for infrared and visible image fusion. Signal, Image and Video Processing, 2021, 15, 1221-1229.	1.7	4
235	Consistent Long-Term Monthly Coastal Wetland Vegetation Monitoring Using a Virtual Satellite Constellation. Remote Sensing, 2021, 13, 438.	1.8	4

#	ARTICLE	IF	CITATIONS
236	Enhancement of 3D Seismic Images using Image Fusion Techniques. International Journal of Advanced Computer Science and Applications, 2021, 12, .	0.5	0
237	Details-preserving multi-exposure image fusion based on dual-pyramid using improved exposure evaluation. Results in Optics, 2021, 2, 100046.	0.9	6
238	Jones formalism for image fusion. Ukrainian Journal of Physical Optics, 2021, 22, 165-180.	9.7	6
239	Research Progress on Models, Algorithms, and Systems for Remote Sensing Spatial-Temporal Big Data Processing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5918-5931.	2.3	5
240	Multi-Sensor Image Fusion: A Survey of the State of the Art. Journal of Computer and Communications, 2021, 09, 73-108.	0.6	12
241	Image Fusion Techniques: A Survey. Archives of Computational Methods in Engineering, 2021, 28, 4425-4447.	6.0	151
242	A Review of Plant Phenotypic Image Recognition Technology Based on Deep Learning. Electronics (Switzerland), 2021, 10, 81.	1.8	65
243	Structural Similarity Based Anatomical and Functional Brain Imaging Fusion. Lecture Notes in Computer Science, 2019, , 121-129.	1.0	9
244	Image Fusion Based on Machine Learning and Deep Learning. , 2020, , 325-352.		4
245	Object fusion tracking based on visible and infrared images: A comprehensive review. Information Fusion, 2020, 63, 166-187.	11.7	99
246	Infrared and visible image perceptive fusion through multi-level Gaussian curvature filtering image decomposition. Applied Optics, 2019, 58, 3064.	0.9	63
247	A Spatial-Channel Collaborative Attention Network for Enhancement of Multiresolution Classification. Remote Sensing, 2021, 13, 106.	1.8	16
248	A multi-focus image fusion method based on multi-source joint layering and convolutional sparse representation. IET Image Processing, 2022, 16, 216-228.	1.4	4
249	Fast local Laplacian filtering based enhanced medical image fusion using parameter-adaptive PCNN and local features-based fuzzy weighted matrices. Applied Intelligence, 2022, 52, 7965-7984.	3.3	12
250	Recent advances in image fusion technology in agriculture. Computers and Electronics in Agriculture, 2021, 191, 106491.	3.7	28
251	An infrared and visible image fusion method based on VGG-19 network. Optik, 2021, 248, 168084.	1.4	20
252	Two-scale decomposition and global sparse features for fusion of multifocus images. Journal of Electronic Imaging, 2019, 28, 1.	0.5	0
253	Comprehensive measure for evaluating image fusion algorithm. Journal of Electronic Imaging, 2020, 29, 1.	0.5	1

#	ARTICLE	IF	CITATIONS
254	Large depth of field imaging method with liquid lens. , 2021, , .		0
255	Two-scale fusion method of infrared and visible images via parallel saliency features. IET Image Processing, 2020, 14, 4412-4423.	1.4	1
256	Computational Intelligence in Remote Sensing Image Registration: A survey. International Journal of Automation and Computing, 2021, 18, 1-17.	4.5	23
257	Multi-focus image fusion evaluation based on jointly sparse representation and atom focus measure. IET Image Processing, 2021, 15, 1032-1041.	1.4	1
258	Infrared and Visible Airborne Targets Image Fusion with Applications to Sense and Avoid. IFAC-PapersOnLine, 2020, 53, 14742-14747.	0.5	2
259	Deep Learning Techniques for Geospatial Data Analysis. Learning and Analytics in Intelligent Systems, 2020, , 63-81.	0.5	5
260	Evaluation of Vehicles™ Best Route in Virtual Tactical Teaching Environment Based on Machine-Learning Techniques. Advances in Intelligent Systems and Computing, 2020, , 712-719.	0.5	0
261	A Systematic Exploration of Image Fusion: A Review. Lecture Notes in Electrical Engineering, 2022, , 1607-1613.	0.3	0
262	Multi-modal bioelectrical signal fusion analysis based on different acquisition devices and scene settings: Overview, challenges, and novel orientation. Information Fusion, 2022, 79, 229-247.	11.7	28
263	Multi-exposure image fusion via a pyramidal integration of the phase congruency of input images with the intensity-based maps. IET Image Processing, 2020, 14, 3127-3133.	1.4	3
264	Multi-focus Image Fusion Based on Multiple CNNs in NSCT Domain. , 2020, , .		0
265	LIALFP: Multi-band images synchronous fusion model based on latent information association and local feature preserving. Infrared Physics and Technology, 2022, 120, 103975.	1.3	5
266	A novel multi-focus image fusion method based on joint regularization optimization layering and sparse representation. Signal Processing: Image Communication, 2022, 101, 116572.	1.8	5
267	An improved approach for medical image fusion using sparse representation and Siamese convolutional neural network. Biomedical Signal Processing and Control, 2022, 72, 103357.	3.5	18
268	A comparison of the integrated fuzzy object-based deep learning approach and three machine learning techniques for land use/cover change monitoring and environmental impacts assessment. GIScience and Remote Sensing, 2021, 58, 1543-1570.	2.4	26
269	Deep learning approaches in remote sensing of soil organic carbon: a review of utility, challenges, and prospects. Environmental Monitoring and Assessment, 2021, 193, 802.	1.3	12
270	Deep learning for digital holography: a review. Optics Express, 2021, 29, 40572.	1.7	63
271	Fault Line Selection Method Based on Transfer Learning Depthwise Separable Convolutional Neural Network. Journal of Electrical and Computer Engineering, 2021, 2021, 1-15.	0.6	5

#	ARTICLE	IF	CITATIONS
272	An Efficient Medical Assistive Diagnostic Algorithm for Visualisation of Structural and Tissue Details in CT and MRI Fusion. <i>Cognitive Computation</i> , 2021, 13, 1471-1483.	3.6	3
273	A Novel 2D-3D CNN with Spectral-Spatial Multi-Scale Feature Fusion for Hyperspectral Image Classification. <i>Remote Sensing</i> , 2021, 13, 4621.	1.8	13
274	Deep Learning-Based Big Data Analytics for Internet of Vehicles: Taxonomy, Challenges, and Research Directions. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-20.	0.6	5
276	A Dual-Domain Super-Resolution Image Fusion Method With SIRV and GALCA Model for PolSAR and Panchromatic Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	2.7	1
277	Multisensor Fusion and Explicit Semantic Preserving-Based Deep Hashing for Cross-Modal Remote Sensing Image Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	2.7	9
278	Res2Fusion: Infrared and Visible Image Fusion Based on Dense Res2net and Double Nonlocal Attention Models. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-12.	2.4	24
279	Remote Sensing Image Fusion Algorithm Based on Two-Stream Fusion Network and Residual Channel Attention Mechanism. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-14.	0.8	7
280	Deep learning-based national scale soil organic carbon mapping with Sentinel-3 data. <i>Geoderma</i> , 2022, 411, 115695.	2.3	29
281	A Compressed Sensing and Porous 9-7 Wavelet Transform-based Image Fusion Algorithm. , 2020, , .		0
282	IFSepR: A General Framework for Image Fusion Based on Separate Representation Learning. <i>IEEE Transactions on Multimedia</i> , 2023, 25, 608-623.	5.2	9
283	Multi-focus Red and White Blood Cell Image Fusion Based on Content Adaptive Blur. , 2021, , .		1
284	Deep learning approach for fusion of magnetic resonance imaging-positron emission tomography image based on extract image features using pretrained network (VGG19). <i>Journal of Medical Signals and Sensors</i> , 2022, 12, 25.	0.5	6
285	An Adaptive MRI-PET Image Fusion Model Based on Deep Residual Learning and Self-Adaptive Total Variation. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 10025-10042.	1.7	4
286	Deep Learning of High-Resolution Aerial Imagery for Coastal Marsh Change Detection: A Comparative Study. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 100.	1.4	10
287	A Brief Review of Recent Developments in the Integration of Deep Learning with GIS. <i>Geomatics and Environmental Engineering</i> , 2022, 16, 21-38.	0.5	5
288	A Machine Learning Model for Improving Building Detection in Informal Areas: A Case Study of Greater Cairo. <i>Geomatics and Environmental Engineering</i> , 2022, 16, 39-58.	0.5	3
289	A Crossmodal Multiscale Fusion Network for Semantic Segmentation of Remote Sensing Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 3463-3474.	2.3	21
290	Advancing the study of driving forces of landscape change. <i>Journal of Land Use Science</i> , 2022, 17, 540-555.	1.0	10

#	ARTICLE	IF	CITATIONS
291	TPFusion: Texture Preserving Fusion of Infrared and Visible Images via Dense Networks. Entropy, 2022, 24, 294.	1.1	6
292	Multiscale Geometric Analysis Fusion-Based Unsupervised Change Detection in Remote Sensing Images via FLICM Model. Entropy, 2022, 24, 291.	1.1	7
293	A Methodology to Generate Integrated Land Cover Data for Land Surface Model by Improving Dempster-Shafer Theory. Remote Sensing, 2022, 14, 972.	1.8	8
294	Fast Multi Focus Image Fusion Using Determinant. , 2022, , .		1
295	General Image Fusion for an Arbitrary Number of Inputs Using Convolutional Neural Networks. Sensors, 2022, 22, 2457.	2.1	3
296	CT and MRI Medical Image Fusion Using Noise-Removal and Contrast Enhancement Scheme with Convolutional Neural Network. Entropy, 2022, 24, 393.	1.1	11
297	A systematic review and meta-analysis of Digital elevation model (DEM) fusion: pre-processing, methods and applications. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 1-29.	4.9	21
298	Infrared and visible image fusion based on relative total variation decomposition. Infrared Physics and Technology, 2022, 123, 104112.	1.3	15
299	Green Fluorescent Protein and Phase Contrast Image Fusion via Dual Attention Residual Network. , 2021, , .		4
300	Comparative Study between Different Image Fusion Techniques Applied on Biomedical Images. , 2021, , .		13
301	Infrared and Visible Image Fusion Using Truncated Huber Penalty Function Smoothing and Visual Saliency Based Threshold Optimization. Electronics (Switzerland), 2022, 11, 33.	1.8	3
302	Red Tide Detection Method for HY ^{1D} Coastal Zone Imager Based on U ^{Net} Convolutional Neural Network. Remote Sensing, 2022, 14, 88.	1.8	9
303	Deforestation Detection with Fully Convolutional Networks in the Amazon Forest from Landsat-8 and Sentinel-2 Images. Remote Sensing, 2021, 13, 5084.	1.8	24
304	Fusion of Infrared and Visible Images Using Fast Global Smoothing Decomposition and Target-Enhanced Parallel Gaussian Fuzzy Logic. Sensors, 2022, 22, 40.	2.1	2
305	Multi-Focus Image Fusion Based on Convolution Neural Network for Parkinson's Disease Image Classification. Diagnostics, 2021, 11, 2379.	1.3	8
306	Automatic classification of rural building characteristics using deep learning methods on oblique photography. Building Simulation, 2022, 15, 1161-1174.	3.0	20
307	High dynamic range imaging by a pseudo exposure fusion method based on artificial remapping. Optik, 2022, 260, 169132.	1.4	1
308	Infrared and visible image fusion based on saliency and fast guided filtering. Infrared Physics and Technology, 2022, 123, 104178.	1.3	8

#	ARTICLE	IF	CITATIONS
309	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
310	A Two-Level Dynamic Adaptive Network for Medical Image Fusion. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-17.	2.4	4
311	Hierarchical Progressive Network for Multimodal Medical Image Fusion in Healthcare Systems. IEEE Transactions on Computational Social Systems, 2023, 10, 1540-1558.	3.2	1
312	D2TNet: A ConvLSTM Network With Dual-Direction Transfer for Pan-Sharpener. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	6
313	A model-guided deep convolutional sparse coding network for hyperspectral and multispectral image fusion. International Journal of Remote Sensing, 2022, 43, 2268-2295.	1.3	3
314	MSAt-GAN: a generative adversarial network based on multi-scale and deep attention mechanism for infrared and visible light image fusion. Complex & Intelligent Systems, 2022, 8, 4753-4781.	4.0	18
315	Parallel interactive delayed attention network for pansharpener. International Journal of Remote Sensing, 2022, 43, 2410-2437.	1.3	0
316	A new multi-focus image fusion method based on multi-classification focus learning and multi-scale decomposition. Applied Intelligence, 0, , .	3.3	2
317	A novel variational optimization model for medical CT and MR image fusion. Signal, Image and Video Processing, 2023, 17, 183-190.	1.7	2
318	Progress and Trends in Image Processing Applications in Civil Engineering: Opportunities and Challenges. Advances in Civil Engineering, 2022, 2022, 1-17.	0.4	5
319	Advanced electrical tomography visualisation. , 2022, , 463-484.		0
320	CGTF: Convolution-Guided Transformer for Infrared and Visible Image Fusion. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	2.4	21
321	A GAN based method for SAR and optical images fusion. , 2022, , .		1
322	Infrared and visible image fusion based on cross-modal extraction strategy. Infrared Physics and Technology, 2022, 124, 104205.	1.3	2
323	Land use land cover classification of remote sensing images based on the deep learning approaches: a statistical analysis and review. Arabian Journal of Geosciences, 2022, 15, .	0.6	25
324	Enhanced Robotic Vision System Based on Deep Learning and Image Fusion. Computers, Materials and Continua, 2022, 73, 1845-1861.	1.5	0
325	Infrared and Visible Missile-borne Image Fusion Based on Structural Information. , 2022, , .		0
326	An Image Fusion Algorithm based on Nonsampled Contourlet Transform. WSEAS Transactions on Signal Processing, 2022, 18, 96-102.	0.3	0

#	ARTICLE	IF	CITATIONS
327	Medical image fusion by sparse-based modified fusion framework using block total least-square update dictionary learning algorithm. <i>Journal of Medical Imaging</i> , 2022, 9, .	0.8	2
328	MMDN: Multi-Scale and Multi-Distillation Dilated Network for Pansharpening. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	2.7	10
329	Interventional oncology update. <i>European Journal of Radiology Open</i> , 2022, 9, 100430.	0.7	2
330	A Self-Supervised Residual Feature Learning Model for Multifocus Image Fusion. <i>IEEE Transactions on Image Processing</i> , 2022, 31, 4527-4542.	6.0	12
331	Advances in Hyperspectral Image Classification Based on Convolutional Neural Networks: A Review. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2022, 133, 219-250.	0.8	6
332	Multimodal MRI Volumetric Data Fusion With Convolutional Neural Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-15.	2.4	13
333	A mathematical model of PCNN for image fusion with non-sampled contourlet transform. <i>Applied Mathematics and Nonlinear Sciences</i> , 2023, 8, 2243-2252.	0.9	1
334	Using artificial intelligence and data fusion for environmental monitoring: A review and future perspectives. <i>Information Fusion</i> , 2022, 86-87, 44-75.	11.7	50
335	Research on Low-Resolution Image Fusion Algorithm Based on Deep Learning. <i>Scientific Programming</i> , 2022, 2022, 1-7.	0.5	0
336	Infrared and Visible Image Fusion with Deep Neural Network in Enhanced Flight Vision System. <i>Remote Sensing</i> , 2022, 14, 2789.	1.8	6
337	MHANet: A Multiscale Hierarchical Pansharpening Method With Adaptive Optimization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	2.7	2
338	Hyperspectral and Multispectral Data Fusion via Joint Local-Nonlocal Modeling and Truncation Operator. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 5880-5893.	2.3	5
340	A Multilevel Hybrid Transmission Network for Infrared and Visible Image Fusion. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-14.	2.4	2
341	Automatic Detection of Tomato Diseases using Fine-tuned pre-trained Deep Learning Models. , 2022, , .		3
342	STPGANsFusion: Structure and Texture Preserving Generative Adversarial Networks for Multi-modal Medical Image Fusion. , 2022, , .		0
343	Multimodal Medical Image Fusion Using Stacked Auto-encoder in NSCT Domain. <i>Journal of Digital Imaging</i> , 2022, 35, 1308-1325.	1.6	6
344	Visible and Infrared Image Fusion-Based Image Quality Enhancement with Applications to Space Debris On-Orbit Surveillance. <i>International Journal of Aerospace Engineering</i> , 2022, 2022, 1-21.	0.5	4
345	A Two-To-One Deep Learning General Framework for Image Fusion. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	0

#	ARTICLE	IF	CITATIONS
347	Novel and fast EMD-based image fusion via morphological filter. <i>Visual Computer</i> , 2023, 39, 4249-4265.	2.5	5
349	MFDetection: A highly generalized object detection network unified with multilevel heterogeneous image fusion. <i>Optik</i> , 2022, 266, 169599.	1.4	6
350	Tomato leaf disease detection and classification based on deep convolutional neural networks. , 2021, , .		0
351	Short-wave infrared polarimetric image reconstruction using deep convolutional neural network based on high frequency correlation. <i>Applied Optics</i> , 0, , .	0.9	0
352	A feature level image fusion for Night-Vision context enhancement using Arithmetic optimization algorithm based image segmentation. <i>Expert Systems With Applications</i> , 2022, 209, 118272.	4.4	31
353	Deep learning in multimodal remote sensing data fusion: A comprehensive review. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 112, 102926.	0.9	68
354	Aerial Imagery-Based Building Footprint Detection with an Integrated Deep Learning Framework: Applications for Fine Scale Wildland-Urban Interface Mapping. <i>Remote Sensing</i> , 2022, 14, 3622.	1.8	3
355	A novel detail injection framework using latent low-rank decomposition for multispectral pan-sharpening. <i>Multimedia Tools and Applications</i> , 0, , .	2.6	0
356	Editorial: Recent advances in artificial neural networks and embedded systems for multi-source image fusion. <i>Frontiers in Neurobotics</i> , 0, 16, .	1.6	2
357	Comparison of various deep convolutional neural network models to discriminate apple leaf diseases using transfer learning. <i>Journal of Plant Diseases and Protection</i> , 2022, 129, 1461-1473.	1.6	16
358	Glioma Segmentation-Oriented Multi-Modal MR Image Fusion With Adversarial Learning. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022, 9, 1528-1531.	8.5	20
359	SSL-WAEIE: Self-Supervised Learning With Weighted Auto-Encoding and Information Exchange for Infrared and Visible Image Fusion. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022, 9, 1694-1697.	8.5	6
360	MATR: Multimodal Medical Image Fusion via Multiscale Adaptive Transformer. <i>IEEE Transactions on Image Processing</i> , 2022, 31, 5134-5149.	6.0	79
361	YDTR: Infrared and Visible Image Fusion via Y-Shape Dynamic Transformer. <i>IEEE Transactions on Multimedia</i> , 2023, 25, 5413-5428.	5.2	62
362	Infrared and visible image fusion based on tight frame learning via VGG19 network. , 2022, 131, 103745.		6
363	Review of pixel-level remote sensing image fusion based on deep learning. <i>Information Fusion</i> , 2023, 90, 36-58.	11.7	20
364	Pansharpening Based on Spectral-Spatial Dependence for Multibands Remote Sensing Images. <i>IEEE Access</i> , 2022, 10, 76153-76167.	2.6	0
365	Brain MRI and CT Image Fusion Using Generative Adversarial Network. <i>Communications in Computer and Information Science</i> , 2022, , 97-109.	0.4	0

#	ARTICLE	IF	CITATIONS
366	End to End Infrared and Visible Image Fusion With Texture Details and Contrast Information. IEEE Access, 2022, 10, 92410-92425.	2.6	2
367	Infrared Image Target Detection of Substation Electrical Equipment Using an Improved Faster R-CNN. IEEE Transactions on Power Delivery, 2023, 38, 387-396.	2.9	13
368	Current advances and future perspectives of image fusion: A comprehensive review. Information Fusion, 2023, 90, 185-217.	11.7	37
369	Medical image fusion quality assessment based on conditional generative adversarial network. Frontiers in Neuroscience, 0, 16, .	1.4	1
370	Multiple Degradation Skilled Network for Infrared and Visible Image Fusion Based on Multi-Resolution SVD Updation. Mathematics, 2022, 10, 3389.	1.1	2
371	On coregionalized multivariate Gaussian Markov random fields: construction, parameterization, and Bayesian estimation and inference. Test, 0, , .	0.7	2
372	Conditional Random Field-Guided Multi-Focus Image Fusion. Journal of Imaging, 2022, 8, 240.	1.7	2
373	Brain tumor segmentation in multimodal MRI via pixel-level and feature-level image fusion. Frontiers in Neuroscience, 0, 16, .	1.4	6
374	SGFusion: A saliency guided deep-learning framework for pixel-level image fusion. Information Fusion, 2023, 91, 205-214.	11.7	17
375	Image Fusion Algorithm Based on Laplacian Pyramid and Principal Component Analysis Transforms. , 2022, , .		2
376	A Multi-Branch Multi-Scale Deep Learning Image Fusion Algorithm Based on DenseNet. Applied Sciences (Switzerland), 2022, 12, 10989.	1.3	3
377	DetFusion: A Detection-driven Infrared and Visible Image Fusion Network. , 2022, , .		15
378	MsRAN: a multi-scale residual attention network for multi-model image fusion. Medical and Biological Engineering and Computing, 2022, 60, 3615-3634.	1.6	3
379	Local extreme map guided multi-modal brain image fusion. Frontiers in Neuroscience, 0, 16, .	1.4	6
380	Medical Image Fusion using ECNN- and OMBO-based Adaptive Weighted Fusion Rule. International Journal of Image and Graphics, 0, , .	1.2	0
381	Multi-scale siamese networks for multi-focus image fusion. Multimedia Tools and Applications, 2023, 82, 15651-15672.	2.6	1
382	Infrared and visible image fusion based on contrast enhancement guided filter and infrared feature decomposition. Infrared Physics and Technology, 2022, 127, 104404.	1.3	6
383	MDRANet: A multiscale dense residual attention network for magnetic resonance and nuclear medicine image fusion. Biomedical Signal Processing and Control, 2023, 80, 104382.	3.5	5

#	ARTICLE	IF	CITATIONS
384	Role of Deep Learning in Image and Video Processing. Advances in Computational Intelligence and Robotics Book Series, 2022, , 115-131.	0.4	0
385	F-UNet++: Remote Sensing Image Fusion Based on Multipurpose Adaptive Shuffle Attention and Composite Multi-Input Reconstruction Network. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-15.	2.4	0
386	Multi-Source Image Fusion Using Parameter Optimized PCNN in LNSST Domain. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 1193-1204.	0.2	1
387	Self-attention mechanism fusion method for bi-modal images. , 2022, , .		0
388	Joint principal component analysis and total variation for infrared and visible image fusion. Infrared Physics and Technology, 2023, 128, 104523.	1.3	4
389	Fusion of visible and infrared images using GE-WA model and VGG-19 network. Scientific Reports, 2023, 13, .	1.6	4
390	DATFuse: Infrared and Visible Image Fusion via Dual Attention Transformer. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 3159-3172.	5.6	25
391	Infrared and Visible Image Fusion Technology and Application: A Review. Sensors, 2023, 23, 599.	2.1	25
392	Pan-sharpening of remote sensing images based on gradient projection and cross fusion. International Journal of Remote Sensing, 2023, 44, 30-58.	1.3	0
393	Mapping soil organic carbon distribution across South Africa's major biomes using remote sensing-topo-climatic covariates and Concrete Autoencoder-Deep neural networks. Science of the Total Environment, 2023, 865, 161150.	3.9	4
394	Coupled adversarial learning for fusion classification of hyperspectral and LiDAR data. Information Fusion, 2023, 93, 118-131.	11.7	18
395	Towards faithful neural fusion to infrared and visible images with a full-scale connected network. Journal of Electronic Imaging, 2022, 31, .	0.5	0
396	Mutual Information Estimation-Based Disentangled Representation Network for Medical Image Fusion. , 2022, , .		0
397	Multi-Exposure Image Fusion via Multi-Scale and Context-Aware Feature Learning. IEEE Signal Processing Letters, 2023, 30, 100-104.	2.1	2
398	MrFDDGAN: Multireceptive Field Feature Transfer and Dual Discriminator-Driven Generative Adversarial Network for Infrared and Color Visible Image Fusion. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-28.	2.4	2
399	Image Fusion Method Based on Improved Framelet Transform. Lecture Notes on Data Engineering and Communications Technologies, 2023, , 656-662.	0.5	0
400	PCNet: A structure similarity enhancement method for multispectral and multimodal image registration. Information Fusion, 2023, 94, 200-214.	11.7	6
401	R2F-UGCCGAN: a regional fusion factor-based union gradient and contrast generative adversarial network for infrared and visible image fusion. Journal of Modern Optics, 2023, 70, 52-68.	0.6	2

#	ARTICLE	IF	CITATIONS
402	Laplacian Pyramid Fusion Network With Hierarchical Guidance for Infrared and Visible Image Fusion. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 4630-4644.	5.6	4
403	Multimodal Image Fusion via Self-Supervised Transformer. IEEE Sensors Journal, 2023, 23, 9796-9807.	2.4	2
404	Medical Image Fusion Using a New Entropy Measure Between Intuitionistic Fuzzy Sets Joint Gaussian Curvature Filter. IEEE Transactions on Radiation and Plasma Medical Sciences, 2023, 7, 494-508.	2.7	6
405	RDCa-Net: Residual dense channel attention symmetric network for infrared and visible image fusion. Infrared Physics and Technology, 2023, 130, 104589.	1.3	6
406	Infrared and visible image fusion based on infrared background suppression. Optics and Lasers in Engineering, 2023, 164, 107528.	2.0	11
407	HCTIRdeblur: A hybrid convolution-transformer network for single infrared image deblurring. Infrared Physics and Technology, 2023, 131, 104640.	1.3	1
408	A review of image fusion: Methods, applications and performance metrics. , 2023, 137, 104020.		8
410	An attention-guided and wavelet-constrained generative adversarial network for infrared and visible image fusion. Infrared Physics and Technology, 2023, 129, 104570.	1.3	11
411	A Novel Bayesian Fusion Model for IR and Visible Images. Lecture Notes in Electrical Engineering, 2023, , 851-861.	0.3	0
412	Deep Multi-Modal U-Net Fusion Methodology of Thermal and Ultrasonic Images for Porosity Detection in Additive Manufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2023, 145, .	1.3	1
413	Complex-scalar and complex-vector approaches for express target-oriented image fusion. Ukrainian Journal of Physical Optics, 2023, 24, 62-82.	9.7	1
414	Predicting shield position deviation based on double-path hybrid deep neural networks. Automation in Construction, 2023, 148, 104775.	4.8	4
415	Insect recognition based on complementary features from multiple views. Scientific Reports, 2023, 13, .	1.6	0
416	BTMF-GAN: A multi-modal MRI fusion generative adversarial network for brain tumors. Computers in Biology and Medicine, 2023, 157, 106769.	3.9	4
417	Classification of Mineral Foam Flotation Conditions Based on Multi-Modality Image Fusion. Applied Sciences (Switzerland), 2023, 13, 3512.	1.3	3
418	Parallel convolutional neural network toward high efficiency and robust structural damage identification. Structural Health Monitoring, 2023, 22, 3805-3826.	4.3	1
419	Multi-Sensor Medical-Image Fusion Technique Based on Embedding Bilateral Filter in Least Squares and Salient Detection. Sensors, 2023, 23, 3490.	2.1	7
420	Analysis of Facial Occlusion Challenge in Thermal Images for Human Affective State Recognition. Sensors, 2023, 23, 3513.	2.1	1

#	ARTICLE	IF	CITATIONS
421	MGFuse: An Infrared and Visible Image Fusion Algorithm Based on Multiscale Decomposition Optimization and Gradient-Weighted Local Energy. IEEE Access, 2023, 11, 33248-33260.	2.6	2
422	Visible and Infrared Image Fusion Using Deep Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2023, 45, 10535-10554.	9.7	11
423	T2-fuzzy multi-fused facial image fusion (T2FMFImgF): An efficient face recognition. Journal of Intelligent and Fuzzy Systems, 2021, , 1-19.	0.8	0
424	Extraction of Rice Phenological Metrics Using Temporally Correlated Multispectral Drone Imagery. , 2022, , .		0
428	Establishment of an Effective Brain Tumor Classification System through Image Transformations and Optimization Techniques. , 2023, , .		0
437	A Hybrid Guided Filtering and Transform-Based Sparse Representation Framework for Fusion of Multimodal Medical Images. Lecture Notes in Electrical Engineering, 2023, , 267-274.	0.3	0
441	Overview of Infrared and Visible Image Fusion Based on Deep Learning. Communications in Computer and Information Science, 2023, , 77-91.	0.4	0
451	Development of AI Enabled Solution for Efficient Feature Enrichment from Multiple Data Sources: An Application in Precision Agriculture. , 2023, , .		0
460	Research on Remote Sensing Image Classification Based on Transfer Learning and Data Augmentation. Lecture Notes in Computer Science, 2023, , 99-111.	1.0	0
461	Deep Convolutional Sparse Coding Networks for Interpretable Image Fusion. , 2023, , .		0
462	Morphology and EMD-Based Patch-Wise Image Fusion. Lecture Notes in Electrical Engineering, 2023, , 121-133.	0.3	1
464	Multi-modality Medical Image Fusion Employing Various Contrast Enhancement Techniques. Lecture Notes in Electrical Engineering, 2023, , 587-597.	0.3	0
471	Spatio-temporal fusion methods for spectral remote sensing: a comprehensive technical review and comparative analysis. Tropical Ecology, 0, , .	0.6	0
480	Data Driven Multiband Image Fusion That Preserves Wavelength-Specific Image Features. , 2023, , .		0
488	Enhanced COVID-19 Classification Using Ensemble Meta-Algorithms on Chest X-ray Images. Earth and Environmental Sciences Library, 2024, , 485-497.	0.3	0
491	CNN-based Boreal Peatland Fertility Classification from Sentinel-1 and Sentinel-2 Imagery. , 2023, , .		0
492	Visible-Infrared Features Fusion Based Object Detection. , 2023, , .		0
496	Estimating Optimal Harvest Time and Yield in Tomatoes Using Deep Learning Techniques: A Preliminary Study. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------