Ce Zhu

List of Publications by Year
in descending order

173 papers	5,708 citations	87723 38 h-index	106150 65 g-index
175 all docs	175 docs citations	175 times ranked	3673 citing authors

#	Article	IF	Citations
1	Hexagon-based search pattern for fast block motion estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 349-355.	5.6	688
2	Independently Recurrent Neural Network (IndRNN): Building A Longer and Deeper RNN. , 2018, , .		450
3	Distribution-Aware Coordinate Representation for Human Pose Estimation. , 2020, , .		253
4	Fast crowd density estimation with convolutional neural networks. Engineering Applications of Artificial Intelligence, 2015, 43, 81-88.	4.3	191
5	Enhanced Hexagonal Search for Fast Block Motion Estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 1210-1214.	5.6	140
6	A Deep Learning Approach for Multi-Frame In-Loop Filter of HEVC. IEEE Transactions on Image Processing, 2019, 28, 5663-5678.	6.0	138
7	Real-world single image super-resolution: A brief review. Information Fusion, 2022, 79, 124-145.	11.7	133
8	Automated Detection of Parkinson's Disease Based on Multiple Types of Sustained Phonations Using Linear Discriminant Analysis and Genetically Optimized Neural Network. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-10.	2.2	132
9	Robust Image Hashing Based on Random Gabor Filtering and Dithered Lattice Vector Quantization. IEEE Transactions on Image Processing, 2012, 21, 1963-1980.	6.0	119
10	Video Coding Optimization for Virtual Reality 360-Degree Source. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 118-129.	7.3	113
11	AMP-Net: Denoising-Based Deep Unfolding for Compressive Image Sensing. IEEE Transactions on Image Processing, 2021, 30, 1487-1500.	6.0	112
12	Low rank tensor completion for multiway visual data. Signal Processing, 2019, 155, 301-316.	2.1	97
13	Early diagnosis of Parkinson's disease from multiple voice recordings by simultaneous sample and feature selection. Expert Systems With Applications, 2019, 137, 22-28.	4.4	95
14	Binocular Just-Noticeable-Difference Model for Stereoscopic Images. IEEE Signal Processing Letters, 2011, 18, 19-22.	2.1	94
15	Improved Robust Tensor Principal Component Analysis via Low-Rank Core Matrix. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1378-1389.	7.3	84
16	Image Restoration via Simultaneous Nonlocal Self-Similarity Priors. IEEE Transactions on Image Processing, 2020, 29, 8561-8576.	6.0	84
17	From Rank Estimation to Rank Approximation: Rank Residual Constraint for Image Restoration. IEEE Transactions on Image Processing, 2020, 29, 3254-3269.	6.0	81
18	A high payload steganographic algorithm based on edge detection. Displays, 2017, 46, 42-51.	2.0	80

#	Article	IF	Citations
19	Group Sparsity Residual Constraint With Non-Local Priors for Image Restoration. IEEE Transactions on Image Processing, 2020, 29, 8960-8975.	6.0	78
20	Siamese Network for RGB-D Salient Object Detection and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	76
21	A Benchmark for Sparse Coding: When Group Sparsity Meets Rank Minimization. IEEE Transactions on Image Processing, 2020, 29, 5094-5109.	6.0	74
22	Lagrangian Multiplier Adaptation for Rate-Distortion Optimization With Inter-Frame Dependency. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 117-129.	5.6	73
23	Image Restoration Using Joint Patch-Group-Based Sparse Representation. IEEE Transactions on Image Processing, 2020, 29, 7735-7750.	6.0	73
24	Reliable Parkinson's Disease Detection by Analyzing Handwritten Drawings: Construction of an Unbiased Cascaded Learning System Based on Feature Selection and Adaptive Boosting Model. IEEE Access, 2019, 7, 116480-116489.	2.6	70
25	Depth Image Based View Synthesis: New Insights and Perspectives on Hole Generation and Filling. IEEE Transactions on Broadcasting, 2016, 62, 82-93.	2.5	67
26	Boundary Artifact Reduction in View Synthesis of 3D Video: From Perspective of Texture-Depth Alignment. IEEE Transactions on Broadcasting, 2011, 57, 510-522.	2.5	66
27	Predictive fine granularity successive elimination for fast optimal block-matching motion estimation. IEEE Transactions on Image Processing, 2005, 14, 213-221.	6.0	64
28	Depth No-Synthesis-Error Model for View Synthesis in 3-D Video. IEEE Transactions on Image Processing, 2011, 20, 2221-2228.	6.0	62
29	Frame Fusion for Video Copy Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 15-28.	5.6	61
30	Hole Filling With Multiple Reference Views in DIBR View Synthesis. IEEE Transactions on Multimedia, 2018, 20, 1948-1959.	5.2	60
31	Image Completion Using Low Tensor Tree Rank and Total Variation Minimization. IEEE Transactions on Multimedia, 2019, 21, 338-350.	5.2	59
32	Image Restoration via Reconciliation of Group Sparsity and Low-Rank Models. IEEE Transactions on Image Processing, 2021, 30, 5223-5238.	6.0	58
33	Optimized Multiple Description Lattice Vector Quantization for Wavelet Image Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 912-917.	5.6	55
34	A Bayesian Approach to Camouflaged Moving Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2001-2013.	5.6	55
35	Low CP Rank and Tucker Rank Tensor Completion for Estimating Missing Components in Image Data. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 944-954.	5.6	54
36	Temporally Dependent Rate-Distortion Optimization for Low-Delay Hierarchical Video Coding. IEEE Transactions on Image Processing, 2017, 26, 4457-4470.	6.0	52

#	Article	IF	Citations
37	Optimal Bit Allocation at Frame Level for Rate Control in HEVC. IEEE Transactions on Broadcasting, 2019, 65, 270-281.	2.5	51
38	Depth Coding Based on Depth-Texture Motion and Structure Similarities. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 275-286.	5.6	50
39	Source Distortion Temporal Propagation Model for Motion Compensated Video Coding Optimization. , 2012, , .		49
40	Deep Cascade Model-Based Face Recognition: When Deep-Layered Learning Meets Small Data. IEEE Transactions on Image Processing, 2020, 29, 1016-1029.	6.0	49
41	A novel hexagon-based search algorithm for fast block motion estimation. , 0, , .		42
42	Triply Complementary Priors for Image Restoration. IEEE Transactions on Image Processing, 2021, 30, 5819-5834.	6.0	42
43	Tensor rank learning in CP decomposition via convolutional neural network. Signal Processing: Image Communication, 2019, 73, 12-21.	1.8	37
44	Source Distortion Temporal Propagation Analysis for Random-Access Hierarchical Video Coding Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 546-559.	5.6	36
45	Inter-Block Dependency-Based CTU Level Rate Control for HEVC. IEEE Transactions on Broadcasting, 2020, 66, 113-126.	2.5	36
46	Forward Error Correction-Based 2-D Layered Multiple Description Coding for Error-Resilient H.264 SVC Video Transmission. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1730-1738.	5.6	35
47	Robust Low-Rank Tensor Ring Completion. IEEE Transactions on Computational Imaging, 2020, 6, 1117-1126.	2.6	33
48	Multiple Description Video Coding Based on Hierarchical B Pictures. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 511-521.	5.6	32
49	Adaptive Deep Convolutional Neural Networks for Scene-Specific Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2538-2551.	5.6	31
50	Feature Encoding With Autoencoders for Weakly Supervised Anomaly Detection. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2454-2465.	7.2	31
51	Bayesian Low Rank Tensor Ring for Image Recovery. IEEE Transactions on Image Processing, 2021, 30, 3568-3580.	6.0	30
52	Efficient Multi-Strategy Intra Prediction for Quality Scalable High Efficiency Video Coding. IEEE Transactions on Image Processing, 2019, 28, 2063-2074.	6.0	29
53	Smooth robust tensor principal component analysis for compressed sensing of dynamic MRI. Pattern Recognition, 2020, 102, 107252.	5.1	29
54	End-to-End Rate-Distortion Optimized Description Generation for H.264 Multiple Description Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1523-1536.	5.6	28

#	Article	IF	Citations
55	Pixel-Based Inter Prediction in Coded Texture Assisted Depth Coding. IEEE Signal Processing Letters, 2014, 21, 74-78.	2.1	28
56	Provable tensor ring completion. Signal Processing, 2020, 171, 107486.	2.1	28
57	Comparison of different compressed sensing algorithms for low SNR ^{19}F MRI applicationsâ€"Imaging of transplanted pancreatic islets and cells labeled with perfluorocarbons. NMR in Biomedicine, 2017, 30, e3776.	1.6	26
58	Hybrid CS-DMRI: Periodic Time-Variant Subsampling and Omnidirectional Total Variation Based Reconstruction. IEEE Transactions on Medical Imaging, 2017, 36, 2148-2159.	5.4	25
59	Robust block tensor principal component analysis. Signal Processing, 2020, 166, 107271.	2.1	25
60	Low-Rank Tensor Train Coefficient Array Estimation for Tensor-on-Tensor Regression. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5402-5411.	7.2	23
61	M-Description Lattice Vector Quantization: Index Assignment and Analysis. IEEE Transactions on Signal Processing, 2009, 57, 2258-2274.	3.2	21
62	A Hybrid Structural Sparsification Error Model for Image Restoration. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4451-4465.	7.2	21
63	Deep anomaly detection in packet payload. Neurocomputing, 2022, 485, 205-218.	3.5	21
64	Low-Rankness Guided Group Sparse Representation for Image Restoration. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7593-7607.	7.2	19
65	Transform-Exempted Calculation of Sum of Absolute Hadamard Transformed Differences. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1183-1188.	5.6	18
66	Two-Stage Diversity-Based Multiple Description Image Coding. IEEE Signal Processing Letters, 2008, 15, 837-840.	2.1	17
67	Face Region Based Conversational Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 917-931.	5.6	17
68	Efficient and Robust Corner Detectors Based on Second-Order Difference of Contour. IEEE Signal Processing Letters, 2017, 24, 1393-1397.	2.1	17
69	Iterative block tensor singular value thresholding for extraction of lowrank component of image data. , 2017, , .		16
70	Visual aesthetic understanding: Sample-specific aesthetic classification and deep activation map visualization. Signal Processing: Image Communication, 2018, 67, 12-21.	1.8	16
71	Fast Depth and Inter Mode Prediction for Quality Scalable High Efficiency Video Coding. IEEE Transactions on Multimedia, 2020, 22, 833-845.	5.2	14
72	Status-aware projection metric learning for kinship verification. , 2017, , .		13

#	Article	IF	Citations
73	Joint Texture/Depth Power Allocation for 3-D Video SoftCast. IEEE Transactions on Multimedia, 2019, 21, 2973-2984.	5.2	13
74	A New Multiplication-Free Block Matching Criterion. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 1441-1446.	5.6	12
75	Multiple description coded video streaming in peer-to-peer networks. Signal Processing: Image Communication, 2012, 27, 412-429.	1.8	12
76	The Power Of Triply Complementary Priors For Image Compressive Sensing. , 2020, , .		12
77	Nonconvex Structural Sparsity Residual Constraint for Image Restoration. IEEE Transactions on Cybernetics, 2022, 52, 12440-12453.	6.2	12
78	Complex Wavelet-Domain Image Watermarking Algorithm Using $$L\_1$$ L 1 -Norm Function-Based Quantization. Circuits, Systems, and Signal Processing, 2018, 37, 1268-1286.	1.2	11
79	Optimized Multiple Description Image Coding Using Lattice Vector Quantization. , 0, , .		10
80	A fully trainable network with RNN-based pooling. Neurocomputing, 2019, 338, 72-82.	3.5	10
81	An enhanced hexagonal search algorithm for block motion estimation. , 0, , .		9
82	Multiple Description Video Coding using Hierarchical B Pictures. , 2007, , .		9
83	A New Perspective on Hole Generation and Filling in DIBR Based View Synthesis. , 2013, , .		9
84	Reducing Wedgelet lookup table size with down-sampling for depth map coding in 3D-HEVC. , 2015, , .		9
85	Attribute-controlled face photo synthesis from simple line drawing. , 2017, , .		9
86	Fast Depth and Mode Decision in Intra Prediction for Quality SHVC. IEEE Transactions on Image Processing, 2020, 29, 6136-6150.	6.0	9
87	Hierarchical temporal dependent rate-distortion optimization for low-delay coding. , 2016, , .		8
88	Smooth Compact Tensor Ring Regression. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4439-4452.	4.0	8
89	Two-Description Image Coding With Steganography. IEEE Signal Processing Letters, 2008, 15, 887-890.	2.1	7
90	Enhancing Two-Stage Multiple Description Scalar Quantization. IEEE Signal Processing Letters, 2009, 16, 253-256.	2.1	7

#	Article	IF	Citations
91	Exploiting entropy masking in perceptual graphic rendering. Signal Processing: Image Communication, 2015, 33, 1-13.	1.8	7
92	Texture-Aware Depth Prediction in 3D Video Coding. IEEE Transactions on Broadcasting, 2016, 62, 482-486.	2.5	7
93	A Novel Method of Minimizing View Synthesis Distortion Based on Its Non-Monotonicity in 3D Video. IEEE Transactions on Image Processing, 2017, 26, 5122-5137.	6.0	7
94	Fast Inter Mode Predictions for SHVC. , 2019, , .		7
95	Robust corner detection using altitude to chord ratio accumulation. Multimedia Tools and Applications, 2019, 78, 177-195.	2.6	7
96	Reconciliation Of Group Sparsity And Low-Rank Models For Image Restoration. , 2020, , .		7
97	A Hybrid Structural Sparse Error Model for Image Deblocking. , 2020, , .		7
98	Low-rank tensor ring learning for multi-linear regression. Pattern Recognition, 2021, 113, 107753.	5.1	7
99	Prototype-Based Multisource Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5308-5320.	7.2	7
100	Multiple reference views for hole reduction in DIBR view synthesis. , 2014, , .		6
101	Learning various length dependence by dual recurrent neural networks. Neurocomputing, 2021, 466, 1-15.	3.5	6
102	An Integrated System forÂUnbiased Parkinsonâ€™s Disease Detection fromÂHandwritten Drawings. Smart Innovation, Systems and Technologies, 2022, , 3-13.	0.5	6
103	Trainable Subspaces for Low Rank Tensor Completion: Model and Analysis. IEEE Transactions on Signal Processing, 2022, 70, 2502-2517.	3.2	6
104	An optimized diamond search algorithm for block motion estimation. , 0, , .		5
105	A new successive elimination algorithm for fast block matching in motion estimation. , 0, , .		5
106	Joint Multiple Description Coding and Network Coding for Wireless Image Multicast. , 2009, , .		5
107	Efficient Block Matching Motion Estimation Using Multilevel Intra- and Inter-Subblock Features Subblock-Based SATD. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 1039-1043.	5.6	5
108	Suppressing texture-depth misalignment for boundary noise removal in view synthesis. , 2010, , .		5

#	Article	IF	Citations
109	Convolutional Virtual Electric Field for Image Segmentation Using Active Contours. PLoS ONE, 2014, 9, e110032.	1.1	5
110	Geometric mesh corner detection using triangle principle. Electronics Letters, 2017, 53, 1354-1356.	0.5	5
111	Efficient Estimation of View Synthesis Distortion for Depth Coding Optimization. IEEE Transactions on Multimedia, 2019, 21, 863-874.	5.2	5
112	Learning Clustering for Motion Segmentation. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 908-919.	5.6	5
113	A congestion control strategy for multipoint videoconferencing. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 1025-1029.	5.6	4
114	Multiple Description Shifted Lattice Vector Quantization for Progressive Wavelet Image Coding. , 2006, , .		4
115	Video Transmission Channel Distortion Estimation Model for H.264/AVC Based on Channel Simulation. , 2009, , .		4
116	Knowledge Propagation in Collaborative Tagging for Image Retrieval. Journal of Signal Processing Systems, 2010, 59, 163-175.	1.4	4
117	Simplified reference pixel selection for constant partition value coding in 3D-HEVC. , 2015, , .		4
118	Depth filter design by jointly utilizing spatial-temporal depth and texture information. , 2015, , .		4
119	Structure Prior Effects in Bayesian Approaches of Quantitative Susceptibility Mapping. BioMed Research International, 2016, 2016, 1-10.	0.9	4
120	3D interest point detection based on geometric measures and sparse refinement. , 2016, , .		4
121	Layer-based temporal dependent rate-distortion optimization in Random-Access hierarchical video coding. , 2016, , .		4
122	Adaptive pedestrian detection using convolutional neural network with dynamically adjusted classifier. Journal of Electronic Imaging, 2017, 26, 013012.	0.5	4
123	A frame-level rate control scheme for low delay video coding in HEVC. , 2017, , .		4
124	Temporal corelation based hierarchical quantization parameter determination for HEVC video coding. , 2017, , .		4
125	Video analytical coding: When video coding meets video analysis. Signal Processing: Image Communication, 2018, 67, 48-57.	1.8	4
126	Light field image compression based on quality aware pseudoâ€temporal sequence. Electronics Letters, 2018, 54, 500-501.	0.5	4

#	Article	IF	Citations
127	Tensor decompositions: computations, applications, and challenges. , 2022, , 1-30.		4
128	Simultaneous Nonlocal Low-Rank And Deep Priors For Poisson Denoising. , 2022, , .		4
129	TWO-STAGE MULTIPLE DESCRIPTION IMAGE CODING USING TCQ. International Journal of Wavelets, Multiresolution and Information Processing, 2009, 07, 665-673.	0.9	3
130	Depth-texture cooperative clustering and alignment for high efficiency depth intra-coding. , 2013, , .		3
131	Detection model of luster effect in binocular rivalry. , 2014, , .		3
132	Improved segment-wise DC coding for HEVC intra prediction of depth maps. , 2014, , .		3
133	Multipath Routing of Multiple Description Coded Images in Wireless Networks. Journal of Computer Science and Technology, 2014, 29, 576-588.	0.9	3
134	Optimization of depth modeling modes in 3D-HEVC depth intra coding. Journal of Real-Time Image Processing, 2017, 13, 85-100.	2.2	3
135	Memory-based pedestrian detection through sequence learning. , 2017, , .		3
136	Robust Tensor Principal Component Analysis in All Modes. , 2018, , .		3
137	MA-GANet: A Multi-Attention Generative Adversarial Network for Defocus Blur Detection. IEEE Transactions on Image Processing, 2022, 31, 3494-3508.	6.0	3
138	Selective rendering with graphical saliency model. , 2011, , .		2
139	Video organization: Near-Duplicate Video clustering. , 2012, , .		2
140	Towards thinner convolutional neural networks through gradually global pruning. , 2017, , .		2
141	Image ordinal classification with deep multiâ€view learning. Electronics Letters, 2018, 54, 1280-1282.	0.5	2
142	Smart Dysphagia Detection System with Adaptive Boosting Analysis of Throat Signals. , 2021, , .		2
143	MultiANet: a Multi-Attention Network for Defocus Blur Detection. , 2020, , .		2
144	Temporal dependency based Lagrange multiplier adaptation for HEVC. , 2020, , .		2

#	Article	IF	Citations
145	Unsupervised Real-World Image Super-Resolution via Dual Synthetic-to-Realistic and Realistic-to-Synthetic Translations. IEEE Signal Processing Letters, 2022, 29, 1282-1286.	2.1	2
146	Dysphagia diagnosis system with integrated speech analysis from throat vibration. Expert Systems With Applications, 2022, 204, 117496.	4.4	2
147	Smooth constrained block matching criterion for motion estimation. , 0, , .		1
148	Reducing drift for FGS coding based on multiframe motion compensation [video coding]. , 0, , .		1
149	Multi-description multipath video streaming in wireless ad hoc networks. Signal Processing: Image Communication, 2012, 27, 836-848.	1.8	1
150	Camouflage modeling for moving object detection. , 2015, , .		1
151	Analytical distortion aware video coding for computer based video analysis. , 2017, , .		1
152	Multiple Low-Ranks plus Sparsity based Tensor Reconstruction for Dynamic MRI. , 2018, , .		1
153	Multi-mode Tensor Singular Value Decomposition for Low-Rank Image Recovery. Lecture Notes in Computer Science, 2021, , 238-249.	1.0	1
154	Deep Learning Based Gait Analysis for Contactless Dementia Detection System from Video Camera. , 2021, , .		1
155	Robust Principal Tensor Component Analysis. , 2022, , 133-162.		1
156	Depth map superâ€resolution via shapeâ€adaptive nonâ€local regression and directionâ€based local smoothness. Electronics Letters, 2021, 57, 475-477.	0.5	1
157	Low-Rank Regularized Joint Sparsity for Image Denoising. , 2021, , .		1
158	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
159	Revisiting image ordinal estimation: how to deal with ordinal relationship in deep learning?. Journal of Electronic Imaging, 2019, 28, 1.	0.5	1
160	Joint Power and Bandwidth Allocation for 3D Video SoftCast. , 2022, , .		1
161	Vector quantization with minimax L_{∞} distortion for image coding. , 0, , .		0
162	Overlapped Block Motion Compensation Using Modified Sigmoid Window. , 2007, , .		0

#	Article	IF	Citations
163	Motion codevector based search for fast motion estimation. , 2010, , .		0
164	A soft relevance method for content-based scene categorization in the BoW framework. , 2011, , .		0
165	Joint visual attention and rendering complexity based sample rate estimation in selective rendering. , 2011, , .		0
166	Down-/up-sampling based depth coding by utilizing interview correlation. , 2015, , .		0
167	Learning based 3D keypoint detection with local and global attributes in multi-scale space. , 2017, , .		0
168	Residual MultiSmoothlets. , 2019, , .		0
169	Temporal dependency based CTU-level bit allocation for rate control. , 2019, , .		0
170	Integrating Action-aware Features for Saliency Prediction via Weakly Supervised Learning. , 2019, , .		0
171	Multiple Context Aggregation Network for Saliency Prediction. , 2019, , .		0
172	Deep Networks for Tensor Approximation. , 2022, , 265-284.		0
173	Low-Rank Tensor Recovery. , 2022, , 93-114.		0