Bin Xiao

List of Publications by Year
in descending order

56 papers	1,975 citations	279487 23 h-index	253896 43 g-index
56 all docs	56 docs citations	56 times ranked	1288 citing authors

#	Article	IF	Citations
1	An overview of multi-modal medical image fusion. Neurocomputing, 2016, 215, 3-20.	3.5	255
2	Pixel convolutional neural network for multi-focus image fusion. Information Sciences, 2018, 433-434, 125-141.	4.0	196
3	Anatomical-Functional Image Fusion by Information of Interest in Local Laplacian Filtering Domain. IEEE Transactions on Image Processing, 2017, 26, 5855-5866.	6.0	124
4	Image analysis by Bessel–Fourier moments. Pattern Recognition, 2010, 43, 2620-2629.	5.1	117
5	Image analysis by fractional-order orthogonal moments. Information Sciences, 2017, 382-383, 135-149.	4.0	89
6	Fractional discrete Tchebyshev moments and their applications in image encryption and watermarking. Information Sciences, 2020, 516, 545-559.	4.0	85
7	Image splicing forgery detection combining coarse to refined convolutional neural network and adaptive clustering. Information Sciences, 2020, 511, 172-191.	4.0	83
8	2D-LBP: An Enhanced Local Binary Feature for Texture Image Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2796-2808.	5.6	77
9	Computer aided Alzheimer's disease diagnosis by an unsupervised deep learning technology. Neurocomputing, 2020, 392, 296-304.	3.5	71
10	Scaling and rotation invariant analysis approach to object recognition based on Radon and Fourier–Mellin transforms. Pattern Recognition, 2007, 40, 3503-3508.	5.1	70
11	Global-Feature Encoding U-Net (GEU-Net) for Multi-Focus Image Fusion. IEEE Transactions on Image Processing, 2021, 30, 163-175.	6.0	62
12	Lossless image compression based on integer Discrete Tchebichef Transform. Neurocomputing, 2016, 214, 587-593.	3.5	55
13	Radial shifted Legendre moments for image analysis and invariant image recognition. Image and Vision Computing, 2014, 32, 994-1006.	2.7	54
14	Multi-Focus Image Fusion by Hessian Matrix Based Decomposition. IEEE Transactions on Multimedia, 2020, 22, 285-297.	5.2	49
15	Follow the Sound of Children's Heart: A Deep-Learning-Based Computer-Aided Pediatric CHDs Diagnosis System. IEEE Internet of Things Journal, 2020, 7, 1994-2004.	5.5	45
16	Combined blur, translation, scale and rotation invariant image recognition by Radon and pseudo-Fourier–Mellin transforms. Pattern Recognition, 2012, 45, 314-321.	5.1	41
17	Multimodal medical image fusion via laplacian pyramid and convolutional neural network reconstruction with local gradient energy strategy. Computers in Biology and Medicine, 2020, 126, 104048.	3.9	36
18	Multi-User Offloading Game Strategy in OFDMA Mobile Cloud Computing System. IEEE Transactions on Vehicular Technology, 2019, 68, 12190-12201.	3.9	32

#	Article	IF	Citations
19	PAM-DenseNet: A Deep Convolutional Neural Network for Computer-Aided COVID-19 Diagnosis. IEEE Transactions on Cybernetics, 2022, 52, 12163-12174.	6.2	32
20	Medical image fusion by combining parallel features on multi-scale local extrema scheme. Knowledge-Based Systems, 2016, 113, 4-12.	4.0	30
21	Explicit Krawtchouk moment invariants for invariant image recognition. Journal of Electronic Imaging, 2016, 25, 023002.	0.5	29
22	Radial Tchebichef moment invariants for image recognition. Journal of Visual Communication and Image Representation, 2012, 23, 381-386.	1.7	27
23	Pyramidal Multiple Instance Detection Network With Mask Guided Self-Correction for Weakly Supervised Object Detection. IEEE Transactions on Image Processing, 2021, 30, 3029-3040.	6.0	25
24	Moments and moment invariants in the Radon space. Pattern Recognition, 2015, 48, 2772-2784.	5.1	24
25	Quaternion weighted spherical Bessel-Fourier moment and its invariant for color image reconstruction and object recognition. Information Sciences, 2019, 505, 388-405.	4.0	20
26	Medical image segmentation based on active fusion-transduction of multi-stream features. Knowledge-Based Systems, 2021, 220, 106950.	4.0	17
27	Multi-modal Color Medical Image Fusion Using Quaternion Discrete Fourier Transform. Sensing and Imaging, 2016, 17, 1.	1.0	16
28	Controlling Neural Learning Network with Multiple Scales for Image Splicing Forgery Detection. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-22.	3.0	15
29	Generic radial orthogonal moment invariants for invariant image recognition. Journal of Visual Communication and Image Representation, 2013, 24, 1002-1008.	1.7	14
30	A focus measure in discrete cosine transform domain for multi-focus image fast fusion. Neurocomputing, 2021, 465, 93-102.	3.5	14
31	Errata and comments on â€œOrthogonal moments based on exponent functions: Exponent-Fourier momentsâ€. Pattern Recognition, 2015, 48, 1571-1573.	5.1	13
32	Multimodal medical image fusion based on multichannel coupled neural P systems and max-cloud models in spectral total variation domain. Neurocomputing, 2022, 480, 61-75.	3.5	12
33	IEMask R-CNN: Information-Enhanced Mask R-CNN. IEEE Transactions on Big Data, 2023, 9, 688-700.	4.4	12
34	Multimodal medical image fusion by cloud model theory. Signal, Image and Video Processing, 2018, 12, 437-444.	1.7	11
35	Image splicing localization using residual image and residual-based fully convolutional network. Journal of Visual Communication and Image Representation, 2020, 73, 102967.	1.7	11
36	Functional and Anatomical Image Fusion Based on Gradient Enhanced Decomposition Model. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	2.4	9

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37	Pancreatic Segmentation via Ringed Residual U-Net. IEEE Access, 2019, 7, 172871-172878.	2.6	8
38	Privacy-Preserving Krawtchouk Moment feature extraction over encrypted image data. Information Sciences, 2020, 536, 244-262.	4.0	8
39	2D-LCoLBP: A Learning Two-Dimensional Co-Occurrence Local Binary Pattern for Image Recognition. IEEE Transactions on Image Processing, 2021, 30, 7228-7240.	6.0	8
40	Multi-Task Convolution Operators With Object Detection for Visual Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 8204-8216.	5.6	8
41	Shape circularity measure method based on radial moments. Journal of Electronic Imaging, 2013, 22, 033022.	0.5	7
42	Image analysis using modified exponent-Fourier moments. Eurasip Journal on Image and Video Processing, 2019, 2019, .	1.7	7
43	An Optimized Quantization Technique for Image Compression Using Discrete Tchebichef Transform. Pattern Recognition and Image Analysis, 2018, 28, 371-378.	0.6	6
44	Histogram Learning in Image Contrast Enhancement. , 2019, , .		6
45	Recent advancement in haze removal approaches. Multimedia Systems, 2022, 28, 687-710.	3.0	6
46	Rotation, scaling and translation invariant texture recognition by Bessel-Fourier moments. Pattern Recognition and Image Analysis, 2016, 26, 302-308.	0.6	5
47	MU-TEIR: Traceable Encrypted Image Retrieval in the Multi-User Setting. IEEE Transactions on Services Computing, 2023, 16, 1282-1295.	3.2	5
48	Privacy-Preserving Color Image Feature Extraction by Quaternion Discrete Orthogonal Moments. IEEE Transactions on Information Forensics and Security, 2022, 17, 1655-1668.	4.5	5
49	Multi-Focus Image Fusion Using Block-Wise Color-Principal Component Analysis. , 2018, , .		4
50	A Novel Framework With Weighted Decision Map Based on Convolutional Neural Network for Cardiac MR Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2228-2239.	3.9	4
51	DTMNet: A Discrete Tchebichef Moments-based Deep Neural Network for Multi-focus Image Fusion. , 2021, , .		4
52	Quaternion fractional-order color orthogonal moment-based image representation and recognition. Eurasip Journal on Image and Video Processing, 2021, 2021, .	1.7	3
53	Multi-Focus Color Image Fusion Based on Quaternion Multi-Scale Singular Value Decomposition. Frontiers in Neurorobotics, 2021, 15, 695960.	1.6	3
54	Collaborative Decision-Reinforced Self-Supervision for Attributed Graph Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10851-10863.	7.2	3

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55	Registration-Is-Evaluation: Robust Point Set Matching With Multigranular Prior Assessment. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	2
56	HessHist: A Hessianâ€matrix weighted histogram for image contrast enhancement. IET Image Processing, 2022, 16, 1831-1845.	1.4	1