

Baochang Zhang

List of Publications by Year in descending order

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88
papers

2,827
citations

361045
20
h-index

214527
47
g-index

88
all docs

88
docs citations

88
times ranked

2923
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Derivative Pattern Versus Local Binary Pattern: Face Recognition With High-Order Local Pattern Descriptor. IEEE Transactions on Image Processing, 2010, 19, 533-544.	6.0	885
2	Gabor Convolutional Networks. IEEE Transactions on Image Processing, 2018, 27, 4357-4366.	6.0	230
3	Learning Compact and Discriminative Stacked Autoencoder for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4823-4833.	2.7	202
4	Accelerating Convolutional Networks via Global & Dynamic Filter Pruning. , 2018, , .		136
5	Land-use scene classification using multi-scale completed local binary patterns. Signal, Image and Video Processing, 2016, 10, 745-752.	1.7	132
6	Channel Pruning via Automatic Structure Search. , 2020, , .		111
7	Geometric Reinforcement Learning for Path Planning of UAVs. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 391-409.	2.0	91
8	Bounding Multiple Gaussians Uncertainty with Application to Object Tracking. International Journal of Computer Vision, 2016, 118, 364-379.	10.9	65
9	Fine-Grained Spatial Alignment Model for Person Re-Identification With Focal Triplet Loss. IEEE Transactions on Image Processing, 2020, 29, 7578-7589.	6.0	60
10	Memory Attention Networks for Skeleton-based Action Recognition. , 2018, , .		55
11	Development of an EMG-Controlled Knee Exoskeleton to Assist Home Rehabilitation in a Game Context. Frontiers in Neurobotics, 2019, 13, 67.	1.6	51
12	Mirror-image polymerase chain reaction. Cell Discovery, 2017, 3, 17037.	3.1	45
13	Sparse representation classification with manifold constraints transfer. , 2015, , .		39
14	Action recognition from depth sequences using weighted fusion of 2D and 3D auto-correlation of gradients features. Multimedia Tools and Applications, 2017, 76, 4651-4669.	2.6	39
15	One-pot multi-segment condensation strategies for chemical protein synthesis. Organic and Biomolecular Chemistry, 2019, 17, 727-744.	1.5	35
16	Adaptive Local Movement Modeling for Robust Object Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1515-1526.	5.6	34
17	Cascaded L1-norm Minimization Learning (CLML) classifier for human detection. , 2010, , .		33
18	Ligation of Soluble but Unreactive Peptide Segments in the Chemical Synthesis of <i>Haemophilus Influenzae</i> DNA Ligase. Angewandte Chemie - International Edition, 2019, 58, 12231-12237.	7.2	31

#	ARTICLE	IF	CITATIONS
19	Mirror-Image Gene Transcription and Reverse Transcription. <i>CheM</i> , 2019, 5, 848-857.	5.8	29
20	Gabor Convolutional Networks. , 2018, , .		27
21	Kernel Similarity Modeling of Texture Pattern Flow for Motion Detection in Complex Background. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2011, 21, 29-38.	5.6	26
22	Chemical Synthesis of Proteins Containing 300 Amino Acids. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 733-747.	1.3	26
23	Image Reconstruction via Manifold Constrained Convolutional Sparse Coding for Image Sets. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017, 11, 1072-1081.	7.3	25
24	Chemical Synthesis of a Full-Length G-Protein-Coupled Receptor β_2 -Adrenergic Receptor with Defined Modification Patterns at the C-Terminus. <i>Journal of the American Chemical Society</i> , 2021, 143, 17566-17576.	6.6	23
25	Modulated Convolutional Networks. , 2018, , .		21
26	Face recognition based on gradient gabor feature and Efficient Kernel Fisher analysis. <i>Neural Computing and Applications</i> , 2010, 19, 617-623.	3.2	20
27	Long-Short-Term Features for Dynamic Scene Classification. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019, 29, 1038-1047.	5.6	20
28	An Integrated Deep Learning Framework for Occluded Pedestrian Tracking. <i>IEEE Access</i> , 2019, 7, 26060-26072.	2.6	18
29	Superpixel-Based Feature for Aerial Image Scene Recognition. <i>Sensors</i> , 2018, 18, 156.	2.1	17
30	Modulated Autocorrelation Convolution Networks for Automatic Modulation Classification Based on Small Sample Set. <i>IEEE Access</i> , 2020, 8, 27097-27105.	2.6	15
31	Layer-wise Searching for 1-bit Detectors. , 2021, , .		15
32	Fast pedestrian detection with multi-scale orientation features and two-stage classifiers. , 2010, , .		14
33	Pruning multi-view stereo net for efficient 3D reconstruction. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 168, 17-27.	4.9	14
34	A Review of Recent Advances of Binary Neural Networks for Edge Computing. <i>IEEE Journal on Miniaturization for Air and Space Systems</i> , 2021, 2, 25-35.	1.9	14
35	Human detection in images via L1-norm Minimization Learning. , 2010, , .		11
36	Study on the BeiHang Keystroke Dynamics Database. , 2011, , .		11

#	ARTICLE	IF	CITATIONS
37	Online Multi-Object Tracking Using Hierarchical Constraints for Complex Scenarios. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 151-161.	4.7	11
38	Rectified Binary Convolutional Networks for Enhancing the Performance of 1-bit DCNNs. , 2019, , .		11
39	Cogradient Descent for Bilinear Optimization. , 2020, , .		10
40	Enhanced Bird Detection from Low-Resolution Aerial Image Using Deep Neural Networks. Neural Processing Letters, 2019, 49, 1021-1039.	2.0	9
41	Real-Time Human-UAV Interaction: New Dataset and Two Novel Gesture-Based Interacting Systems. IEEE Access, 2020, 8, 195030-195045.	2.6	9
42	Learning modulation filter networks for weak signal detection in noise. Pattern Recognition, 2021, 109, 107590.	5.1	9
43	Studies on Mirror-Image Proteins. Chinese Journal of Organic Chemistry, 2018, 38, 2412.	0.6	9
44	Multi-resolution background subtraction for dynamic scenes. , 2009, , .		8
45	Hyperspectral image classification using Gradient Local Auto-Correlations. , 2015, , .		8
46	Robust kernelized correlation filter with scale adaption for real-time single object tracking. Journal of Real-Time Image Processing, 2018, 15, 583-596.	2.2	8
47	Chemical synthesis and racemic crystallization of rat C5a-desArg. Chinese Chemical Letters, 2020, 31, 693-696.	4.8	8
48	Efficient structured pruning based on deep feature stabilization. Neural Computing and Applications, 2021, 33, 7409-7420.	3.2	7
49	Action recognition using completed local binary patterns and multiple-class boosting classifier. , 2015, , .		6
50	Person re-identification using sparse representation with manifold constraints. , 2016, , .		6
51	Multi-scale Supervised Attentive Encoder-Decoder Network for Crowd Counting. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-20.	3.0	6
52	BiRe-ID: Binary Neural Network for Efficient Person Re-ID. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-22.	3.0	6
53	Deepwalk-aware graph convolutional networks. Science China Information Sciences, 2022, 65, 1.	2.7	6
54	Gaussian Transfer Convolutional Neural Networks. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 360-368.	3.4	5

#	ARTICLE	IF	CITATIONS
55	Convolutional Attention in Ensemble With Knowledge Transferred for Remote Sensing Image Classification. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 643-647.	1.4	5
56	Crowd Counting for Static Images: A Survey of Methodology. , 2020, , .		5
57	Tiny Vehicle Detection for Mid-to-High Altitude UAV Images Based on Visual Attention and Spatial-Temporal Information. Sensors, 2022, 22, 2354.	2.1	5
58	A Fast Hybrid Method for Interactive Liver Segmentation. , 2010, , .		4
59	Local convolutional features and metric learning for SAR image registration. Cluster Computing, 2019, 22, 3103-3114.	3.5	4
60	Circulant Binary Convolutional Networks for Object Recognition. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 884-893.	7.3	4
61	Hypergraph Induced Convolutional Manifold Networks. , 2019, , .		4
62	A multi-scale unsupervised learning for deformable image registration. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 157-166.	1.7	4
63	A Routing Algorithm for WiFi-Based Wireless Sensor Network and the Application in Automatic Meter Reading. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	3
64	Generalized Zero-Shot Vehicle Detection in Remote Sensing Imagery via Coarse-to-Fine Framework. , 2019, , .		3
65	Weakly Supervised Object Detection Based on Active Learning. Neural Processing Letters, 2022, 54, 5169-5183.	2.0	3
66	Sparse regression analysis for object recognition. , 2011, , .		2
67	3D G-learning in UAVs. , 2017, , .		2
68	A Path Planning for One UAV Based on Geometric Algorithm. , 2018, , .		2
69	Object detection and tracking benchmark in industry based on improved correlation filter. Multimedia Tools and Applications, 2018, 77, 29919-29932.	2.6	2
70	Cross Spectral-Spatial Convolutional Network for Hyperspectral Image Classification. , 2019, , .		2
71	ASiam: adaptive Siamese regression tracking with adversarial template generation and motion-based failure recovery. IET Image Processing, 2019, 13, 2694-2705.	1.4	2
72	An Adaptive Gradient Method with Differentiation Element in Deep Neural Networks. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
73	Motion Detection Based on Directional Rectangular Pattern and Adaptive Threshold Propagation in the Complex Background. , 2009, , .		1
74	Guest Editorial: Feature Learning from RGB-D Data for Multimedia Applications. Multimedia Tools and Applications, 2017, 76, 4243-4248.	2.6	1
75	Pedestrian detection based on multifractal analysis. , 2017, , .		1
76	Efficient Block Pruning Based on Kernel and Feature Stabilization. , 2019, , .		1
77	Efficient Facial Landmark Localization Based on Binarized Neural Networks. Electronics (Switzerland), 2020, 9, 1236.	1.8	1
78	Deep Convolutional Neural Network with Wavelet Decomposition for Automatic Modulation Classification. , 2020, , .		1
79	Autocorrelation Convolution Networks Based on Deep Learning for Automatic Modulation Classification. , 2020, , .		1
80	Complex background modeling and motion detection based on Texture Pattern Flow. , 2008, , .		0
81	Local Kernel Mapping for Object Recognition. , 2009, , .		0
82	Derivative code and its pattern for object recognition. , 2012, , .		0
83	Stereo Matching Using Gabor Convolutional Neural Network. , 2018, , .		0
84	Taylor Convolutional Networks for Image Classification. , 2019, , .		0
85	Guided Convolutional Network. , 2019, , .		0
86	Orthogonal Features Fusion Network for Anomaly Detection. , 2020, , .		0
87	Filter pruning via expectation-maximization. Neural Computing and Applications, 0, , 1.	3.2	0
88	DOANet: Point Cloud Registration with Deep Overlap Attention. , 2021, , .		0