Baochang Zhang

List of Publications by Year
in descending order

61 papers	3,468 citations	361413 20 h-index	276875 41 g-index
61 all docs	61 docs citations	61 times ranked	2674 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.	9.8	885
2	HRank: Filter Pruning Using High-Rank Feature Map. , 2020, , .		390
3	Towards Optimal Structured CNN Pruning via Generative Adversarial Learning. , 2019, , .		298
4	Gabor Convolutional Networks. IEEE Transactions on Image Processing, 2018, 27, 4357-4366.	9.8	230
5	Action Recognition Using 3D Histograms of Texture and A Multi-Class Boosting Classifier. IEEE Transactions on Image Processing, 2017, 26, 4648-4660.	9.8	137
6	Accelerating Convolutional Networks via Global & Dynamic Filter Pruning. , 2018, , .		136
7	Land-use scene classification using multi-scale completed local binary patterns. Signal, Image and Video Processing, 2016, 10, 745-752.	2.7	132
8	Exploiting Kernel Sparsity and Entropy for Interpretable CNN Compression. , 2019, , .		79
9	Output Constraint Transfer for Kernelized Correlation Filter in Tracking. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 693-703.	9.3	70
10	Cooperative and Geometric Learning Algorithm (CGLA) for path planning of UAVs with limited information. Automatica, 2014, 50, 809-820.	5.0	68
11	Multinomial Distribution Learning for Effective Neural Architecture Search. , 2019, , .		66
12	Bounding Multiple Gaussians Uncertainty with Application to Object Tracking. International Journal of Computer Vision, 2016, 118, 364-379.	15.6	65
13	Deep Fisher discriminant learning for mobile hand gesture recognition. Pattern Recognition, 2018, 77, 276-288.	8.1	62
14	Projection Convolutional Neural Networks for 1-bit CNNs via Discrete Back Propagation. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 8344-8351.	4.9	50
15	One-two-one networks for compression artifacts reduction in remote sensing. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 184-196.	11.1	48
16	Optimization of Task Scheduling and Dynamic Service Strategy for Multi-UAV-Enabled Mobile-Edge Computing System. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 970-984.	7.9	48
17	Circulant Binary Convolutional Networks: Enhancing the Performance of 1-Bit DCNNs With Circulant Back Propagation. , 2019, , .		43
18	Latent Constrained Correlation Filter. IEEE Transactions on Image Processing, 2018, 27, 1038-1048.	9.8	41

#	Article	IF	Citations
19	Fast algorithm for color texture image inpainting using the non-local CTV model. Journal of Global Optimization, 2015, 62, 853-876.	1.8	40
20	Sparse representation classification with manifold constraints transfer. , 2015, , .		39
21	Deep Ensemble Machine for Video Classification. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 553-565.	11.3	39
22	Self-Supervised monocular depth and ego-Motion estimation in endoscopy: Appearance flow to the rescue. Medical Image Analysis, 2022, 77, 102338.	11.6	35
23	Adaptive Local Movement Modeling for Robust Object Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1515-1526.	8.3	34
24	Bayesian Optimized 1-Bit CNNs. , 2019, , .		34
25	Cascaded L1-norm Minimization Learning (CLML) classifier for human detection. , 2010, , .		33
26	Multi-UAV Mobile Edge Computing and Path Planning Platform Based on Reinforcement Learning. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 489-498.	4.9	32
27	Deep Manifold Structure Transfer for Action Recognition. IEEE Transactions on Image Processing, 2019, 28, 4646-4658.	9.8	30
28	MIGO-NAS: Towards Fast and Generalizable Neural Architecture Search. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2936-2952.	13.9	26
29	Self-Learning Scene-Specific Pedestrian Detectors Using a Progressive Latent Model. , 2017, , .		21
30	Modulated Convolutional Networks. , 2018, , .		21
31	Long-Short-Term Features for Dynamic Scene Classification. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1038-1047.	8.3	20
32	Pedestrian detection in images via cascaded L1-norm minimization learning method. Pattern Recognition, 2012, 45, 2573-2583.	8.1	18
33	Aggregation Signature for Small Object Tracking. IEEE Transactions on Image Processing, 2020, 29, 1738-1747.	9.8	16
34	Adaptive Local Movement Modelling for Object Tracking. , 2015, , .		15
35	Layer-wise Searching for 1-bit Detectors. , 2021, , .		15
36	RB-Net: Training Highly Accurate and Efficient Binary Neural Networks With Reshaped Point-Wise Convolution and Balanced Activation. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 6414-6424.	8.3	15

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37	A Review of Recent Advances of Binary Neural Networks for Edge Computing. IEEE Journal on Miniaturization for Air and Space Systems, 2021, 2, 25-35.	2.7	14
38	Realtime Human-UAV Interaction Using Deep Learning. Lecture Notes in Computer Science, 2017, , 511-519.	1.3	11
39	Feature Calibration Network for Occluded Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4151-4163.	8.0	11
40	Rectified Binary Convolutional Networks for Enhancing the Performance of 1-bit DCNNs. , 2019, , .		11
41	Binarized Neural Architecture Search. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 10526-10533.	4.9	10
42	Enhanced Bird Detection from Low-Resolution Aerial Image Using Deep Neural Networks. Neural Processing Letters, 2019, 49, 1021-1039.	3.2	9
43	Towards Compact 1-bit CNNs via Bayesian Learning. International Journal of Computer Vision, 2022, 130, 201-225.	15.6	9
44	Binarized Neural Architecture Search for Efficient Object Recognition. International Journal of Computer Vision, 2021, 129, 501-516.	15.6	8
45	Gesture Recognition Benchmark Based on Mobile Phone. Lecture Notes in Computer Science, 2016, , 432-440.	1.3	8
46	Toward Joint Thing-and-Stuff Mining for Weakly Supervised Panoptic Segmentation. , 2021, , .		8
47	CP-NAS: Child-Parent Neural Architecture Search for 1-bit CNNs. , 2020, , .		7
48	CircleNet: Reciprocating Feature Adaptation for Robust Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4593-4604.	8.0	6
49	Gaussian Transfer Convolutional Neural Networks. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 360-368.	4.9	5
50	Optimization of bits allocation and path planning with trajectory constraint in UAV-enabled mobile edge computing system. Chinese Journal of Aeronautics, 2020, 33, 2716-2727.	5.3	5
51	Adaptive Multi-class Correlation Filters. Lecture Notes in Computer Science, 2016, , 680-688.	1.3	3
52	Manifold constraint transfer for visual structure-driven optimization. Pattern Recognition, 2018, 77, 87-98.	8.1	2
53	Object detection and tracking benchmark in industry based on improved correlation filter. Multimedia Tools and Applications, 2018, 77, 29919-29932.	3.9	2
54	Aerial Small Object Tracking with Transformers. , 2021, , .		2

#	Article	IF	Citations
55	Remaining Useful Life Estimation of Aircraft Engines Using Differentiable Architecture Search. Mathematics, 2022, 10, 352.	2.2	2
56	Pedestrian detection based on multifractal analysis. , 2017, , .		1
57	The Fusion of Neural Architecture Search and Destruction and Construction Learning. Lecture Notes in Computer Science, 2021, , 480-489.	1.3	1
58	Gesture Recognition Based on Deep Belief Networks. Lecture Notes in Computer Science, 2017, , 439-446.	1.3	1
59	Robust and real-time object recognition based on multiple fractal dimension. Multimedia Tools and Applications, 2021, 80, 36585.	3.9	1
60	Cam-Net: Compressed Attentive Multi-Granularity Network For Dynamic Scene Classification. , 2020, , .		0
61	Filter pruning via expectation-maximization. Neural Computing and Applications, 0, , 1.	5.6	0