Gong Cheng

List of Publications by Year
in descending order

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80	12,918	76326	123424
papers	citations	40	61
		h-index	g-index

80	80	80	6844
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Remote Sensing Image Scene Classification: Benchmark and State of the Art. Proceedings of the IEEE, 2017, 105, 1865-1883.	21.3	1,570
2	Learning Rotation-Invariant Convolutional Neural Networks for Object Detection in VHR Optical Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7405-7415.	6.3	1,300
3	A survey on object detection in optical remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 117, 11-28.	11.1	984
4	When Deep Learning Meets Metric Learning: Remote Sensing Image Scene Classification via Learning Discriminative CNNs. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2811-2821.	6.3	966
5	Object detection in optical remote sensing images: A survey and a new benchmark. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 159, 296-307.	11.1	844
6	Object Detection in Optical Remote Sensing Images Based on Weakly Supervised Learning and High-Level Feature Learning. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3325-3337.	6.3	620
7	Multi-class geospatial object detection and geographic image classification based on collection of part detectors. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 98, 119-132.	11.1	582
8	Advanced Deep-Learning Techniques for Salient and Category-Specific Object Detection: A Survey. IEEE Signal Processing Magazine, 2018, 35, 84-100.	5.6	527
9	Remote Sensing Image Scene Classification Meets Deep Learning: Challenges, Methods, Benchmarks, and Opportunities. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3735-3756.	4.9	497
10	Learning Rotation-Invariant and Fisher Discriminative Convolutional Neural Networks for Object Detection. IEEE Transactions on Image Processing, 2019, 28, 265-278.	9.8	322
11	Rotation-Insensitive and Context-Augmented Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2337-2348.	6.3	321
12	Oriented R-CNN for Object Detection. , 2021, , .		320
13	Semantic Annotation of High-Resolution Satellite Images via Weakly Supervised Learning. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3660-3671.	6.3	285
14	Remote Sensing Image Scene Classification Using Bag of Convolutional Features. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1735-1739.	3.1	283
15	Effective and Efficient Midlevel Visual Elements-Oriented Land-Use Classification Using VHR Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4238-4249.	6.3	265
16	Exploring Hierarchical Convolutional Features for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6712-6722.	6.3	243
17	Automatic landslide detection from remote-sensing imagery using a scene classification method based on BoVW and pLSA. International Journal of Remote Sensing, 2013, 34, 45-59.	2.9	210
18	Learning Compact and Discriminative Stacked Autoencoder for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4823-4833.	6.3	202

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19	Efficient, simultaneous detection of multi-class geospatial targets based on visual saliency modeling and discriminative learning of sparse coding. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 89, 37-48.	11.1	176
20	A Unified Metric Learning-Based Framework for Co-Saliency Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2473-2483.	8.3	162
21	Cross-Scale Feature Fusion for Object Detection in Optical Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 431-435.	3.1	137
22	Object detection in remote sensing imagery using a discriminatively trained mixture model. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 85, 32-43.	11.1	135
23	Duplex Metric Learning for Image Set Classification. IEEE Transactions on Image Processing, 2018, 27, 281-292.	9.8	116
24	Automatic Weakly Supervised Object Detection From High Spatial Resolution Remote Sensing Images via Dynamic Curriculum Learning. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 675-685.	6.3	113
25	RIFD-CNN: Rotation-Invariant and Fisher Discriminative Convolutional Neural Networks for Object Detection. , 2016, , .		108
26	DLA-MatchNet for Few-Shot Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7844-7853.	6.3	99
27	High-Quality Proposals for Weakly Supervised Object Detection. IEEE Transactions on Image Processing, 2020, 29, 5794-5804.	9.8	96
28	Object Detection in Remote Sensing Images Based on Improved Bounding Box Regression and Multi-Level Features Fusion. Remote Sensing, 2020, 12, 143.	4.0	96
29	Anchor-Free Oriented Proposal Generator for Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	91
30	Weakly Supervised Learning for Target Detection in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 701-705.	3.1	87
31	Progressive Contextual Instance Refinement for Weakly Supervised Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8002-8012.	6.3	82
32	Weakly supervised target detection in remote sensing images based on transferred deep features and negative bootstrapping. Multidimensional Systems and Signal Processing, 2016, 27, 925-944.	2.6	73
33	Scene classification of high resolution remote sensing images using convolutional neural networks. , 2016, , .		63
34	TCANet: Triple Context-Aware Network for Weakly Supervised Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6946-6955.	6.3	62
35	P-CNN: Part-Based Convolutional Neural Networks for Fine-Grained Visual Categorization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 579-590.	13.9	61
36	SPNet: Siamese-Prototype Network for Few-Shot Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	58

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37	Multi-modal deep learning for landform recognition. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 63-75.	11.1	56
38	Autoâ€encoderâ€based shared midâ€level visual dictionary learning for scene classification using very high resolution remote sensing images. IET Computer Vision, 2015, 9, 639-647.	2.0	55
39	Dual-Aligned Oriented Detector. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	54
40	Task-wise attention guided part complementary learning for few-shot image classification. Science China Information Sciences, 2021, 64, 1.	4.3	47
41	Perturbation-Seeking Generative Adversarial Networks: A Defense Framework for Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	45
42	Learning coarse-to-fine sparselets for efficient object detection and scene classification. , 2015, , .		43
43	ISNet: Towards Improving Separability for Remote Sensing Image Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	43
44	Feature Enhancement Network for Object Detection in Optical Remote Sensing Images. Journal of Remote Sensing, 2021, 2021, .	6.7	42
45	Prototype-CNN for Few-Shot Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	39
46	Two-Stream Encoder GAN With Progressive Training for Co-Saliency Detection. IEEE Signal Processing Letters, 2021, 28, 180-184.	3.6	28
47	Scale-Aware Detailed Matching for Few-Shot Aerial Image Semantic Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	27
48	Approximative Bayes optimality linear discriminant analysis for Chinese handwriting character recognition. Neurocomputing, 2016, 207, 346-353.	5.9	23
49	Object detection in VHR optical remote sensing images via learning rotation-invariant HOG feature. , 2016, , .		22
50	Optimal contrast based saliency detection. Pattern Recognition Letters, 2013, 34, 1270-1278.	4.2	18
51	Sparsity-Constrained fMRI Decoding of Visual Saliency in Naturalistic Video Streams. IEEE Transactions on Autonomous Mental Development, 2015, 7, 65-75.	1.6	15
52	Incorporating the Completeness and Difficulty of Proposals Into Weakly Supervised Object Detection in Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1902-1911.	4.9	15
53	Image visual attention computation and application via the learning of object attributes. Machine Vision and Applications, 2014, 25, 1671-1683.	2.7	14
54	SAENet: Self-Supervised Adversarial and Equivariant Network for Weakly Supervised Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	14

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55	Semi-direct tracking and mapping with RGB-D camera for MAV. Multimedia Tools and Applications, 2017, 76, 4445-4469.	3.9	13
56	Solo-to-Collaborative Dual-Attention Network for One-Shot Object Detection in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	13
57	Scalable multi-class geospatial object detection in high-spatial-resolution remote sensing images. , 2014, , .		12
58	AIFS-DATASET for Few-Shot Aerial Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	12
59	Self-Guided Proposal Generation for Weakly Supervised Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	12
60	RÂ²IPoints: Pursuing Rotation-Insensitive Point Representation for Aerial Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	11
61	Query-efficient decision-based attack via sampling distribution reshaping. Pattern Recognition, 2022, 129, 108728.	8.1	11
62	Guiding Clean Features for Object Detection in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	10
63	Adaptive Neighborhood Metric Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	10
64	Semantic Segmentation based on Stacked Discriminative Autoencoders and Context-Constrained Weakly Supervised Learning. , 2015, , .		9
65	Negative Bootstrapping for Weakly Supervised Target Detection in Remote Sensing Images. , 2015, , .		8
66	DFENet for Domain Adaptation-Based Remote Sensing Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	8
67	Scene Classification of High Resolution Remote Sensing Images Via Self-Paced Deep Learning. , 2019, , .		7
68	Learning to Assess Image Quality Like an Observer. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8324-8336.	11.3	6
69	Blind image quality assessment via content-invariant statistical feature. Optik, 2017, 138, 21-32.	2.9	4
70	Multi-Scale Bidirectional Feature Fusion for One-Stage Oriented Object Detection in Aerial Images. , 2021, , .		4
71	Improved salient objects detection based on salient points. , 2016, , .		3
72	Rotation-Invariant Latent Semantic Representation Learning for Object Detection in VHR Optical Remote Sensing Images. , 2019, , .		3

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73	Identifying affective levels on music video via completing the missing modality. Multimedia Tools and Applications, 2018, 77, 3287-3302.	3.9	2
74	Object Detection in Optical Remote Sensing Images Based on Positive Sample Reweighting and Feature Decoupling. , 2021, , .		2
75	Exploring consistent functional brain networks during free viewing of videos via sparse representation. , 2014, , .		1
76	Semantic annotation of satellite images via joint multi-feature learning with diversity constraint. , 2016, , .		1
77	Sparse coding based airport detection from medium resolution Landsat-7 satellite remote sensing images. , 2014, , .		0
78	Visual attention computation in video of driving environment. , 2014, , .		0
79	Salient regions detection based on color features. , 2016, , .		0
80	Learning Region Response Ranking Features for Remote Sensing Image Scene Classification. , 2019, , .		0