

Gong Cheng

List of Publications by Year in descending order

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80
papers

12,918
citations

76326

40
h-index

123424

61
g-index

80
all docs

80
docs citations

80
times ranked

6844
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning to Assess Image Quality Like an Observer. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8324-8336.	11.3	6
2	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
3	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
4	Guiding Clean Features for Object Detection in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	10
5	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
6	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
7	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
8	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
9	DFENet for Domain Adaptation-Based Remote Sensing Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	8
10	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
11	Dual-Aligned Oriented Detector. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	54
12	AIFS-DATASET for Few-Shot Aerial Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	12
13	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
14	ISNet: Towards Improving Separability for Remote Sensing Image Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	43
15	R ² IPoints: Pursuing Rotation-Insensitive Point Representation for Aerial Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	11
16	Query-efficient decision-based attack via sampling distribution reshaping. Pattern Recognition, 2022, 129, 108728.	8.1	11
17	Anchor-Free Oriented Proposal Generator for Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	91
18	Self-Guided Proposal Generation for Weakly Supervised Object Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	12

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19	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
20	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
21	DLA-MatchNet for Few-Shot Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7844-7853.	6.3	99
22	Two-Stream Encoder GAN With Progressive Training for Co-Saliency Detection. IEEE Signal Processing Letters, 2021, 28, 180-184.	3.6	28
23	Adaptive Neighborhood Metric Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	10
24	Task-wise attention guided part complementary learning for few-shot image classification. Science China Information Sciences, 2021, 64, 1.	4.3	47
25	Feature Enhancement Network for Object Detection in Optical Remote Sensing Images. Journal of Remote Sensing, 2021, 2021, .	6.7	42
26	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
27	Multi-Scale Bidirectional Feature Fusion for One-Stage Oriented Object Detection in Aerial Images. , 2021, , .		4
28	Object Detection in Optical Remote Sensing Images Based on Positive Sample Reweighting and Feature Decoupling. , 2021, , .		2
29	Oriented R-CNN for Object Detection. , 2021, , .		320
30	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
31	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
32	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
33	High-Quality Proposals for Weakly Supervised Object Detection. IEEE Transactions on Image Processing, 2020, 29, 5794-5804.	9.8	96
34	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
35	Learning Rotation-Invariant and Fisher Discriminative Convolutional Neural Networks for Object Detection. IEEE Transactions on Image Processing, 2019, 28, 265-278.	9.8	322
36	Multi-modal deep learning for landform recognition. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 63-75.	11.1	56

#	ARTICLE	IF	CITATIONS
37	Learning Compact and Discriminative Stacked Autoencoder for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4823-4833.	6.3	202
38	Learning Region Response Ranking Features for Remote Sensing Image Scene Classification. , 2019, , .		0
39	Scene Classification of High Resolution Remote Sensing Images Via Self-Paced Deep Learning. , 2019, , .		7
40	Rotation-Invariant Latent Semantic Representation Learning for Object Detection in VHR Optical Remote Sensing Images. , 2019, , .		3
41	Advanced Deep-Learning Techniques for Salient and Category-Specific Object Detection: A Survey. IEEE Signal Processing Magazine, 2018, 35, 84-100.	5.6	527
42	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
43	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
44	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
45	Identifying affective levels on music video via completing the missing modality. Multimedia Tools and Applications, 2018, 77, 3287-3302.	3.9	2
46	Duplex Metric Learning for Image Set Classification. IEEE Transactions on Image Processing, 2018, 27, 281-292.	9.8	116
47	Exploring Hierarchical Convolutional Features for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6712-6722.	6.3	243
48	Semi-direct tracking and mapping with RGB-D camera for MAV. Multimedia Tools and Applications, 2017, 76, 4445-4469.	3.9	13
49	Remote Sensing Image Scene Classification: Benchmark and State of the Art. Proceedings of the IEEE, 2017, 105, 1865-1883.	21.3	1,570
50	Blind image quality assessment via content-invariant statistical feature. Optik, 2017, 138, 21-32.	2.9	4
51	Remote Sensing Image Scene Classification Using Bag of Convolutional Features. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1735-1739.	3.1	283
52	RIFD-CNN: Rotation-Invariant and Fisher Discriminative Convolutional Neural Networks for Object Detection. , 2016, , .		108
53	A survey on object detection in optical remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 117, 11-28.	11.1	984
54	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

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55	Improved salient objects detection based on salient points. , 2016, , .		3
56	Salient regions detection based on color features. , 2016, , .		0
57	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
58	Semantic annotation of satellite images via joint multi-feature learning with diversity constraint. , 2016, , .		1
59	Scene classification of high resolution remote sensing images using convolutional neural networks. , 2016, , .		63
60	Object detection in VHR optical remote sensing images via learning rotation-invariant HOG feature. , 2016, , .		22
61	Approximative Bayes optimality linear discriminant analysis for Chinese handwriting character recognition. Neurocomputing, 2016, 207, 346-353.	5.9	23
62	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
63	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
64	Learning coarse-to-fine sparselets for efficient object detection and scene classification. , 2015, , .		43
65	Sparsity-Constrained fMRI Decoding of Visual Saliency in Naturalistic Video Streams. IEEE Transactions on Autonomous Mental Development, 2015, 7, 65-75.	1.6	15
66	Semantic Segmentation based on Stacked Discriminative Autoencoders and Context-Constrained Weakly Supervised Learning. , 2015, , .		9
67	Weakly Supervised Learning for Target Detection in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 701-705.	3.1	87
68	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
69	Autoencoder-based shared mid-level visual dictionary learning for scene classification using very high resolution remote sensing images. IET Computer Vision, 2015, 9, 639-647.	2.0	55
70	Negative Bootstrapping for Weakly Supervised Target Detection in Remote Sensing Images. , 2015, , .		8
71	Sparse coding based airport detection from medium resolution Landsat-7 satellite remote sensing images. , 2014, , .		0
72	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

#	ARTICLE	IF	CITATIONS
73	Scalable multi-class geospatial object detection in high-spatial-resolution remote sensing images. , 2014, , .		12
74	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
75	Image visual attention computation and application via the learning of object attributes. Machine Vision and Applications, 2014, 25, 1671-1683.	2.7	14
76	Exploring consistent functional brain networks during free viewing of videos via sparse representation. , 2014, , .		1
77	Visual attention computation in video of driving environment. , 2014, , .		0
78	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
79	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
80	Optimal contrast based saliency detection. Pattern Recognition Letters, 2013, 34, 1270-1278.	4.2	18