

# Yansheng Li

## List of Publications by Year in descending order

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112  
papers

4,440  
citations

109137

35  
h-index

110170

64  
g-index

112  
all docs

112  
docs citations

112  
times ranked

3413  
citing authors

#	ARTICLE	IF	CITATIONS
1	End-to-End Change Detection for High Resolution Satellite Images Using Improved UNet++. Remote Sensing, 2019, 11, 1382.	1.8	435
2	Unsupervised Spectral-Spatial Feature Learning With Stacked Sparse Autoencoder for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2438-2442.	1.4	315
3	Large-Scale Remote Sensing Image Retrieval by Deep Hashing Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 950-965.	2.7	209
4	SemiCDNet: A Semisupervised Convolutional Neural Network for Change Detection in High Resolution Remote-Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5891-5906.	2.7	148
5	Image retrieval from remote sensing big data: A survey. Information Fusion, 2021, 67, 94-115.	11.7	130
6	Unsupervised Multilayer Feature Learning for Satellite Image Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 157-161.	1.4	128
7	Learning Source-Invariant Deep Hashing Convolutional Neural Networks for Cross-Source Remote Sensing Image Retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6521-6536.	2.7	126
8	Accurate cloud detection in high-resolution remote sensing imagery by weakly supervised deep learning. Remote Sensing of Environment, 2020, 250, 112045.	4.6	125
9	Feature guided Gaussian mixture model with semi-supervised EM and local geometric constraint for retinal image registration. Information Sciences, 2017, 417, 128-142.	4.0	121
10	Building Instance Change Detection from Large-Scale Aerial Images using Convolutional Neural Networks and Simulated Samples. Remote Sensing, 2019, 11, 1343.	1.8	113
11	Deep networks under scene-level supervision for multi-class geospatial object detection from remote sensing images. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 182-196.	4.9	111
12	A Survey on Deep Learning-Driven Remote Sensing Image Scene Understanding: Scene Classification, Scene Retrieval and Scene-Guided Object Detection. Applied Sciences (Switzerland), 2019, 9, 2110.	1.3	104
13	Robust infrared small target detection using local steering kernel reconstruction. Pattern Recognition, 2018, 77, 113-125.	5.1	87
14	A Lightweight and Discriminative Model for Remote Sensing Scene Classification With Multidilation Pooling Module. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2636-2653.	2.3	86
15	Error-Tolerant Deep Learning for Remote Sensing Image Scene Classification. IEEE Transactions on Cybernetics, 2021, 51, 1756-1768.	6.2	86
16	Infrared Small Target Detection via Low-Rank Tensor Completion With Top-Hat Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1004-1016.	2.7	81
17	Spatial information inference net: Road extraction using road-specific contextual information. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 155-166.	4.9	78
18	Robust deep alignment network with remote sensing knowledge graph for zero-shot and generalized zero-shot remote sensing image scene classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 179, 145-158.	4.9	78

#	ARTICLE	IF	CITATIONS
19	On-Orbit Geometric Calibration of ZY-3 Three-Line Array Imagery With Multistrip Data Sets. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 224-234.	2.7	75
20	Object-Based Change Detection for VHR Images Based on Multiscale Uncertainty Analysis. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 13-17.	1.4	73
21	Photogrammetric processing of low-altitude images acquired by unpiloted aerial vehicles. Photogrammetric Record, 2011, 26, 190-211.	0.4	69
22	Adaptive top-hat filter based on quantum genetic algorithm for infrared small target detection. Multimedia Tools and Applications, 2018, 77, 10539-10551.	2.6	64
23	Content-Based High-Resolution Remote Sensing Image Retrieval via Unsupervised Feature Learning and Collaborative Affinity Metric Fusion. Remote Sensing, 2016, 8, 709.	1.8	62
24	Unsupervised Deep Feature Learning for Urban Village Detection from High-Resolution Remote Sensing Images. Photogrammetric Engineering and Remote Sensing, 2017, 83, 567-579.	0.3	58
25	A novel spatio-temporal saliency approach for robust dim moving target detection from airborne infrared image sequences. Information Sciences, 2016, 369, 548-563.	4.0	57
26	DKDFN: Domain Knowledge-Guided deep collaborative fusion network for multimodal unitemporal remote sensing land cover classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 186, 170-189.	4.9	50
27	Fast Filtering of LiDAR Point Cloud in Urban Areas Based on Scan Line Segmentation and GPU Acceleration. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 308-312.	1.4	49
28	Multi-Label Remote Sensing Image Scene Classification by Combining a Convolutional Neural Network and a Graph Neural Network. Remote Sensing, 2020, 12, 4003.	1.8	48
29	Learning Deep Cross-Modal Embedding Networks for Zero-Shot Remote Sensing Image Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10590-10603.	2.7	48
30	Combining Deep Semantic Segmentation Network and Graph Convolutional Neural Network for Semantic Segmentation of Remote Sensing Imagery. Remote Sensing, 2021, 13, 119.	1.8	45
31	A New Approach on Optimization of the Rational Function Model of High-Resolution Satellite Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2758-2764.	2.7	44
32	Cauchy Graph Embedding Optimization for Built-Up Areas Detection From High-Resolution Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 2078-2096.	2.3	39
33	Aircraft Detection in High-Resolution SAR Images Based on a Gradient Textural Saliency Map. Sensors, 2015, 15, 23071-23094.	2.1	37
34	Ecosystem health monitoring in the Shanghai-Hangzhou Bay Metropolitan Area: A hidden Markov modeling approach. Environment International, 2019, 133, 105170.	4.8	37
35	LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 976-987.	2.7	36
36	A unified deep learning framework for urban functional zone extraction based on multi-source heterogeneous data. Remote Sensing of Environment, 2022, 270, 112830.	4.6	36

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37	3D building roof reconstruction from airborne LiDAR point clouds: a framework based on a spatial database. <i>International Journal of Geographical Information Science</i> , 2017, 31, 1359-1380.	2.2	34
38	Automatic Extraction of Built-Up Areas From Panchromatic and Multispectral Remote Sensing Images Using Double-Stream Deep Convolutional Neural Networks. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 3988-4004.	2.3	34
39	Combining deep learning and ontology reasoning for remote sensing image semantic segmentation. <i>Knowledge-Based Systems</i> , 2022, 243, 108469.	4.0	34
40	Extracting buildings from and regularizing boundaries in airborne lidar data using connected operators. <i>International Journal of Remote Sensing</i> , 2016, 37, 889-912.	1.3	33
41	Multiple Feature Hashing Learning for Large-Scale Remote Sensing Image Retrieval. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 364.	1.4	33
42	Scene Context-Driven Vehicle Detection in High-Resolution Aerial Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 7339-7351.	2.7	31
43	A Coarse-to-Fine Framework for Cloud Removal in Remote Sensing Image Sequence. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 5963-5974.	2.7	31
44	Water body classification from high-resolution optical remote sensing imagery: Achievements and perspectives. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 187, 306-327.	4.9	31
45	Object-based change detection from satellite imagery by segmentation optimization and multi-features fusion. <i>International Journal of Remote Sensing</i> , 2017, 38, 3886-3905.	1.3	28
46	MSResNet: Multiscale Residual Network via Self-Supervised Learning for Water-Body Detection in Remote Sensing Imagery. <i>Remote Sensing</i> , 2021, 13, 3122.	1.8	28
47	Roof plane extraction from airborne lidar point clouds. <i>International Journal of Remote Sensing</i> , 2017, 38, 3684-3703.	1.3	26
48	A novel extended phase correlation algorithm based on Log-Gabor filtering for multimodal remote sensing image registration. <i>International Journal of Remote Sensing</i> , 2019, 40, 5429-5453.	1.3	26
49	TopoLAP: Topology Recovery for Building Reconstruction by Deducing the Relationships between Linear and Planar Primitives. <i>Remote Sensing</i> , 2019, 11, 1372.	1.8	25
50	An Image Matching Algorithm Integrating Global SRTM and Image Segmentation for Multi-Source Satellite Imagery. <i>Remote Sensing</i> , 2016, 8, 672.	1.8	23
51	Automatic and Unsupervised Water Body Extraction Based on Spectral-Spatial Features Using GF-1 Satellite Imagery. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 927-931.	1.4	23
52	RLPath: a knowledge graph link prediction method using reinforcement learning based attentive relation path searching and representation learning. <i>Applied Intelligence</i> , 2022, 52, 4715-4726.	3.3	23
53	Infrared moving point target detection based on an anisotropic spatial-temporal fourth-order diffusion filter. <i>Computers and Electrical Engineering</i> , 2018, 68, 550-556.	3.0	22
54	Asymmetric Hash Code Learning for Remote Sensing Image Retrieval. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-14.	2.7	22

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55	Attention boosted bilinear pooling for remote sensing image retrieval. <i>International Journal of Remote Sensing</i> , 2020, 41, 2704-2724.	1.3	21
56	The edge-preservation multi-classifier relearning framework for the classification of high-resolution remotely sensed imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2018, 138, 57-73.	4.9	19
57	Built-Up Area Detection From Satellite Images Using Multikernel Learning, Multifield Integrating, and Multihypothesis Voting. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 1190-1194.	1.4	18
58	Gated Convolutional Networks for Cloud Removal From Bi-Temporal Remote Sensing Images. <i>Remote Sensing</i> , 2020, 12, 3427.	1.8	17
59	Identifying the sources and spatial patterns of potentially toxic trace elements (PTEs) in Shanghai suburb soils using global and local regression models. <i>Environmental Pollution</i> , 2020, 264, 114171.	3.7	17
60	DEM-Aided Bundle Adjustment With Multisource Satellite Imagery: ZY-3 and GF-1 in Large Areas. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 880-884.	1.4	16
61	Object-Based Visual Saliency via Laplacian Regularized Kernel Regression. <i>IEEE Transactions on Multimedia</i> , 2017, 19, 1718-1729.	5.2	14
62	Salient Object Detection via Recursive Sparse Representation. <i>Remote Sensing</i> , 2018, 10, 652.	1.8	14
63	Fully automatic generation of geoinformation products with chinese zya€³ satellite imagery. <i>Photogrammetric Record</i> , 2014, 29, 383-401.	0.4	13
64	Exemplar-Based Recursive Instance Segmentation With Application to Plant Image Analysis. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 389-404.	6.0	13
65	Matching Confidence Constrained Bundle Adjustment for Multi-View High-Resolution Satellite Images. <i>Remote Sensing</i> , 2020, 12, 20.	1.8	13
66	Few-Shot Scene Classification of Optical Remote Sensing Images Leveraging Calibrated Pretext Tasks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	2.7	13
67	Greedy Annotation of Remote Sensing Image Scenes Based on Automatic Aggregation via Hierarchical Similarity Diffusion. <i>IEEE Access</i> , 2018, 6, 57376-57388.	2.6	12
68	Learning Deep Networks under Noisy Labels for Remote Sensing Image Scene Classification. , 2019, , .		12
69	Band-Independent Encoderâ€“Decoder Network for Pan-Sharpening of Remote Sensing Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 5208-5223.	2.7	12
70	Optimized 3D Street Scene Reconstruction from Driving Recorder Images. <i>Remote Sensing</i> , 2015, 7, 9091-9121.	1.8	11
71	Direct Digital Surface Model Generation by Semi-Global Vertical Line Locus Matching. <i>Remote Sensing</i> , 2017, 9, 214.	1.8	11
72	KLGCN: Knowledge graph-aware Light Graph Convolutional Network for recommender systems. <i>Expert Systems With Applications</i> , 2022, 195, 116513.	4.4	11

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73	Deformation visual inspection of industrial parts with image sequence. Machine Vision and Applications, 2004, 15, 115.	1.7	10
74	Camera Pose Determination and 3-D Measurement From Monocular Oblique Images With Horizontal Right Angle Constraints. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1976-1980.	1.4	10
75	Colour balancing of satellite imagery based on a colour reference library. International Journal of Remote Sensing, 2016, 37, 5763-5785.	1.3	10
76	A combined image matching method for Chinese optical satellite imagery. International Journal of Digital Earth, 2016, 9, 851-872.	1.6	10
77	An optimizer ensemble algorithm and its application to image registration. Integrated Computer-Aided Engineering, 2019, 26, 311-327.	2.5	10
78	Registration of Multimodal Remote Sensing Images Using Transfer Optimization. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 2060-2064.	1.4	10
79	Biologically inspired multilevel approach for multiple moving targets detection from airborne forward-looking infrared sequences. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 734.	0.8	9
80	Robust 3-D Plane Segmentation From Airborne Point Clouds Based on Quasi-A-Contrario Theory. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7133-7147.	2.3	9
81	A CNN-GCN Framework for Multi-Label Aerial Image Scene Classification. , 2020, , .		9
82	Automatic Reference Image Selection for Color Balancing in Remote Sensing Imagery Mosaic. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 729-733.	1.4	8
83	Subtask Attention Based Object Detection in Remote Sensing Images. Remote Sensing, 2021, 13, 1925.	1.8	8
84	Tea Garden Detection from High-Resolution Imagery Using a Scene-Based Framework. Photogrammetric Engineering and Remote Sensing, 2018, 84, 723-731.	0.3	7
85	A Hidden Markov Model based unscented Kalman Filtering framework for ecosystem health prediction: A case study in Shanghai-Hangzhou Bay Urban Agglomeration. Ecological Indicators, 2022, 138, 108854.	2.6	7
86	Approximate Correction of Length Distortion for Direct Georeferencing in Map Projection Frame. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1419-1423.	1.4	6
87	Automatic Keyline Recognition and 3D Reconstruction For Quasi-Planar Facades in Close-Range Images. Photogrammetric Record, 2016, 31, 29-50.	0.4	6
88	Object-based change detection method using refined Markov random field. Journal of Applied Remote Sensing, 2017, 11, 016024.	0.6	6
89	Accurate Detection of Built-Up Areas from High-Resolution Remote Sensing Imagery Using a Fully Convolutional Network. Photogrammetric Engineering and Remote Sensing, 2019, 85, 737-752.	0.3	6
90	Representation Learning of Remote Sensing Knowledge Graph for Zero-Shot Remote Sensing Image Scene Classification. , 2021, , .		6

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91	3D model reconstruction with common hand-held cameras. <i>Virtual Reality</i> , 2016, 20, 221-235.	4.1	5
92	A New Registration Algorithm for Multimodal Remote Sensing Images. , 2018, , .		4
93	Adaptive Image Mismatch Removal With Vector Field Interpolation Based on Improved Regularization and Gaussian Kernel Function. <i>IEEE Access</i> , 2018, 6, 55599-55613.	2.6	4
94	A high-speed feature matching method of high-resolution aerial images. <i>Journal of Real-Time Image Processing</i> , 2021, 18, 705-722.	2.2	4
95	Cauchy graph embedding based diffusion model for salient object detection. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 887.	0.8	4
96	An Automatic Radiometric Cross-Calibration Method for Wide-Angle Medium-Resolution Multispectral Satellite Sensor Using Landsat Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-11.	2.7	3
97	Precise calibration of a rotation photogrammetric system. <i>Geo-Spatial Information Science</i> , 2013, 16, 69-74.	2.4	2
98	Quantitative Analysis on Geometric Size of LiDAR Footprint. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 701-705.	1.4	2
99	High-Frequency Jitter Detection by Registration Error Curve of High-Resolution Multi-Spectral Satellite Image. , 2018, , .		2
100	Fine Registration for VHR Images Based on Superpixel Registration-Noise Estimation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, , 1-5.	1.4	2
101	CS-CapsFPN: A Context-Augmentation and Self-Attention Capsule Feature Pyramid Network for Road Network Extraction from Remote Sensing Imagery. <i>Canadian Journal of Remote Sensing</i> , 2021, 47, 499-517.	1.1	2
102	Bundle Block Adjustment of Airborne Three-Line Array Imagery Based on Rotation Angles. <i>Sensors</i> , 2014, 14, 8189-8202.	2.1	1
103	A Novel Fine Registration Technique for Very High Resolution Remote Sensing Images. , 2018, , .		1
104	Salient Object Detection Via Double Sparse Representations Under Visual Attention Guidance. , 2018, , .		1
105	A Mixture Likelihood Model of the Anisotropic Gaussian and Uniform Distributions for Accurate Oblique Image Point Matching. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 1437-1441.	1.4	1
106	Unsupervised Style Transfer via Dualgan for Cross-Domain Aerial Image Classification. , 2020, , .		1
107	DEM Extraction from Airborne Lidar Point Cloud in Thick-Forested Areas via Convolutional Neural Network. , 2020, , .		1
108	A Target Tracking and Positioning Framework for Video Satellites Based on SLAM. , 2020, , .		1

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109	The Parallel Processing of DPCGrid in the Fast Response for China 5.12 Wenchuan Earthquake Rescue. , 2009, , .		0
110	Multiple moving targets positioning via local trajectory consistency using stereo geostationary infrared image sequences. Infrared Physics and Technology, 2018, 88, 212-222.	1.3	0
111	A Rigorous on-orbit Geometric Calibration Method for High-Resolution Optical Sensor of Chinese Mapping Satellite. , 2019, , .		0
112	Deep Networks Under Block-Level Supervision for Pixel-Level Cloud Detection in Multi-Spectral Satellite Imagery. , 2020, , .		0