Zhenfeng Shao

List of Publications by Year
in descending order

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132 papers	5,648 citations	70961 41 h-index	82410 72 g-index
133 all docs	133 docs citations	133 times ranked	4548 citing authors

#	Article	IF	Citations
1	PatternNet: A benchmark dataset for performance evaluation of remote sensing image retrieval. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 197-209.	4.9	304
2	Remote Sensing Image Fusion With Deep Convolutional Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1656-1669.	2.3	250
3	A review of multimodal image matching: Methods and applications. Information Fusion, 2021, 73, 22-71.	11.7	209
4	SeaShips: A Large-Scale Precisely Annotated Dataset for Ship Detection. IEEE Transactions on Multimedia, 2018, 20, 2593-2604.	5.2	198
5	Deep learning-based fusion of Landsat-8 and Sentinel-2 images for a harmonized surface reflectance product. Remote Sensing of Environment, 2019, 235, 111425.	4.6	164
6	Learning Low Dimensional Convolutional Neural Networks for High-Resolution Remote Sensing Image Retrieval. Remote Sensing, 2017, 9, 489.	1.8	162
7	MFF-GAN: An unsupervised generative adversarial network with adaptive and gradient joint constraints for multi-focus image fusion. Information Fusion, 2021, 66, 40-53.	11.7	151
8	Cloud Detection in Remote Sensing Images Based on Multiscale Features-Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4062-4076.	2.7	150
9	â€˜Big dataâ€™ for pedestrian volume: Exploring the use of Google Street View images for pedestrian counts. Applied Geography, 2015, 63, 337-345.	1.7	149
10	BRRNet: A Fully Convolutional Neural Network for Automatic Building Extraction From High-Resolution Remote Sensing Images. Remote Sensing, 2020, 12, 1050.	1.8	146
11	A Comprehensive Evaluation of Urban Sustainable Development in China Based on the TOPSIS-Entropy Method. Sustainability, 2016, 8, 746.	1.6	139
12	Remote sensing monitoring of multi-scale watersheds impermeability for urban hydrological evaluation. Remote Sensing of Environment, 2019, 232, 111338.	4.6	136
13	Saliency-Aware Convolution Neural Network for Ship Detection in Surveillance Video. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 781-794.	5.6	133
14	Multilabel Remote Sensing Image Retrieval Based on Fully Convolutional Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 318-328.	2.3	132
15	Urban sprawl and its impact on sustainable urban development: a combination of remote sensing and social media data. Geo-Spatial Information Science, 2021, 24, 241-255.	2.4	130
16	Deep Learning Based Retrieval of Forest Aboveground Biomass from Combined LiDAR and Landsat 8 Data. Remote Sensing, 2019, 11, 1459.	1.8	105
17	Integrated remote sensing and GIS approach using Fuzzy-AHP to delineate and identify groundwater potential zones in semi-arid Shanxi Province, China. Environmental Modelling and Software, 2020, 134, 104868.	1.9	105
18	Performance Evaluation of Single-Label and Multi-Label Remote Sensing Image Retrieval Using a Dense Labeling Dataset. Remote Sensing, 2018, 10, 964.	1.8	104

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19	An evaluation of monthly impervious surface dynamics by fusing Landsat and MODIS time series in the Pearl River Delta, China, from 2000 to 2015. Remote Sensing of Environment, 2017, 201, 99-114.	4.6	100
20	Arsenic in a groundwater environment in Bangladesh: Occurrence and mobilization. Journal of Environmental Management, 2020, 262, 110318.	3.8	96
21	Smart Monitoring Cameras Driven Intelligent Processing to Big Surveillance Video Data. IEEE Transactions on Big Data, 2018, 4, 105-116.	4.4	95
22	Multi-Temporal Ultra Dense Memory Network for Video Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2503-2516.	5.6	94
23	GANMcC: A Generative Adversarial Network With Multiclassification Constraints for Infrared and Visible Image Fusion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	2.4	91
24	Remote Sensing Image Super-Resolution Using Sparse Representation and Coupled Sparse Autoencoder. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2663-2674.	2.3	89
25	The Integrated Use of DMSP-OLS Nighttime Light and MODIS Data for Monitoring Large-Scale Impervious Surface Dynamics: A Case Study in the Yangtze River Delta. Remote Sensing, 2014, 6, 9359-9378.	1.8	86
26	Mapping Urban Impervious Surface by Fusing Optical and SAR Data at the Decision Level. Remote Sensing, 2016, 8, 945.	1.8	82
27	Stacked Sparse Autoencoder Modeling Using the Synergy of Airborne LiDAR and Satellite Optical and SAR Data to Map Forest Above-Ground Biomass. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 5569-5582.	2.3	79
28	Estimating Forest Aboveground Biomass by Combining Optical and SAR Data: A Case Study in Genhe, Inner Mongolia, China. Sensors, 2016, 16, 834.	2.1	75
29	Real-Time and Accurate UAV Pedestrian Detection for Social Distancing Monitoring in COVID-19 Pandemic. IEEE Transactions on Multimedia, 2022, 24, 2069-2083.	5.2	75
30	High-resolution remote-sensing imagery retrieval using sparse features by auto-encoder. Remote Sensing Letters, 2015, 6, 775-783.	0.6	71
31	Geomatics for Smart Cities - Concept, Key Techniques,and Applications. Geo-Spatial Information Science, 2013, 16, 13-24.	2.4	67
32	MNDISI: a multi-source composition index for impervious surface area estimation at the individual city scale. Remote Sensing Letters, 2013, 4, 803-812.	0.6	66
33	From digital Earth to smart Earth. Science Bulletin, 2014, 59, 722-733.	1.7	56
34	MRENet: Simultaneous Extraction of Road Surface and Road Centerline in Complex Urban Scenes from Very High-Resolution Images. Remote Sensing, 2021, 13, 239.	1.8	53
35	The Dynamic Analysis between Urban Nighttime Economy and Urbanization Using the DMSP/OLS Nighttime Light Data in China from 1992 to 2012. Remote Sensing, 2017, 9, 416.	1.8	52
36	Assessing of Urban Vegetation Biomass in Combination with LiDAR and High-resolution Remote Sensing Images. International Journal of Remote Sensing, 2021, 42, 964-985.	1.3	52

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37	Object Detection in UAV Images via Global Density Fused Convolutional Network. Remote Sensing, 2020, 12, 3140.	1.8	49
38	Improved color texture descriptors for remote sensing image retrieval. Journal of Applied Remote Sensing, 2014, 8, 083584.	0.6	47
39	High arsenic contamination and presence of other trace metals in drinking water of Kushtia district, Bangladesh. Journal of Environmental Management, 2019, 242, 199-209.	3.8	45
40	SDPNet: A Deep Network for Pan-Sharpening With Enhanced Information Representation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4120-4134.	2.7	45
41	Exploring the Relationship between Urbanization and Ecological Environment Using Remote Sensing Images and Statistical Data: A Case Study in the Yangtze River Delta, China. Sustainability, 2020, 12, 5620.	1.6	43
42	Thin cloud removal from single satellite images. Optics Express, 2014, 22, 618.	1.7	42
43	Fuzzy AutoEncode Based Cloud Detection for Remote Sensing Imagery. Remote Sensing, 2017, 9, 311.	1.8	42
44	An Accurate Matching Method for Projecting Vector Data into Surveillance Video to Monitor and Protect Cultivated Land. ISPRS International Journal of Geo-Information, 2020, 9, 448.	1.4	42
45	A Novel Hierarchical Semisupervised SVM for Classification of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1609-1613.	1.4	41
46	Assessment of the importance of increasing temperature and decreasing soil moisture on global ecosystem productivity using solarâ€induced chlorophyll fluorescence. Global Change Biology, 2022, 28, 2066-2080.	4.2	41
47	DSA-Net: A novel deeply supervised attention-guided network for building change detection in high-resolution remote sensing images. International Journal of Applied Earth Observation and Geoinformation, 2021, 105, 102591.	1.4	39
48	Spatio-temporal-spectral observation model for urban remote sensing. Geo-Spatial Information Science, 2021, 24, 372-386.	2.4	37
49	Challenges and opportunities for the development of MEGACITIES. International Journal of Digital Earth, 2019, 12, 1382-1395.	1.6	36
50	IHS-GTF: A Fusion Method for Optical and Synthetic Aperture Radar Data. Remote Sensing, 2020, 12, 2796.	1.8	36
51	Evolution of soil salinization under the background of landscape patterns in the irrigated northern slopes of Tianshan Mountains, Xinjiang, China. Catena, 2021, 206, 105561.	2.2	36
52	The new era for geo-information. Science in China Series F: Information Sciences, 2009, 52, 1233-1242.	1.1	34
53	Finer-scale spatiotemporal coupling coordination model between socioeconomic activity and eco-environment: A case study of Beijing, China. Ecological Indicators, 2021, 131, 108165.	2.6	34
54	Multi-scale adversarial network for vehicle detection in UAV imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 180, 283-295.	4.9	30

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55	Unequal weakening of urbanization and soil salinization on vegetation production capacity. Geoderma, 2022, 411, 115712.	2.3	30
56	A Multi-View Dense Point Cloud Generation Algorithm Based on Low-Altitude Remote Sensing Images. Remote Sensing, 2016, 8, 381.	1.8	28
57	BASI: a new index to extract built-up areas from high-resolution remote sensing images by visual attention model. Remote Sensing Letters, 2014, 5, 305-314.	0.6	27
58	Identification of Potential Sites for a Multi-Purpose Dam Using a Dam Suitability Stream Model. Water (Switzerland), 2020, 12, 3249.	1.2	26
59	Development of a multi-scale object-based shadow detection method for high spatial resolution image. Remote Sensing Letters, 2015, 6, 59-68.	0.6	25
60	Robust feature matching via neighborhood manifold representation consensus. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 183, 196-209.	4.9	25
61	Spatialâ€“temporal pooling for action recognition in videos. Neurocomputing, 2021, 451, 265-278.	3.5	20
62	Illumination and Contrast Balancing for Remote Sensing Images. Remote Sensing, 2014, 6, 1102-1123.	1.8	19
63	Meta-FSEO: A Meta-Learning Fast Adaptation with Self-Supervised Embedding Optimization for Few-Shot Remote Sensing Scene Classification. Remote Sensing, 2021, 13, 2776.	1.8	19
64	Spatiotemporal Pattern Analysis of Chinaâ€™s Cities Based on High-Resolution Imagery from 2000 to 2015. ISPRS International Journal of Geo-Information, 2019, 8, 241.	1.4	18
65	Advances of geo-spatial intelligence at LIESMARS. Geo-Spatial Information Science, 2020, 23, 40-51.	2.4	18
66	A Comparative Analysis of Index-Based Methods for Impervious Surface Mapping Using Multiseasonal Sentinel-2 Satellite Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3682-3694.	2.3	18
67	Color constancy enhancement under poor illumination. Optics Letters, 2011, 36, 4821.	1.7	17
68	User Identification across Asynchronous Mobility Trajectories. Sensors, 2019, 19, 2102.	2.1	17
69	An effective hyperspectral image retrieval method using integrated spectral and textural features. Sensor Review, 2015, 35, 274-281.	1.0	15
70	Mapping Impervious Surface Areas Using Time-Series Nighttime Light and MODIS Imagery. Remote Sensing, 2021, 13, 1900.	1.8	15
71	Enhanced image prior for unsupervised remoting sensing super-resolution. Neural Networks, 2021, 143, 400-412.	3.3	15
72	Deep learning-based local climate zone classification using Sentinel-1 SAR and Sentinel-2 multispectral imagery. Geo-Spatial Information Science, 2022, 25, 383-398.	2.4	15

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73	Deep feature representations for high-resolution remote sensing scene classification. , 2016, , .		14
74	A Dual-Path Fusion Network for Pan-Sharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	14
75	Monitoring, analyzing and predicting urban surface subsidence: A case study of Wuhan City, China. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102422.	1.4	14
76	Scale and rotation robust line-based matching for high resolution images. Optik, 2013, 124, 5318-5322.	1.4	13
77	A novel remote sensing image retrieval method based on visual salient point features. Sensor Review, 2014, 34, 349-359.	1.0	13
78	Spatio-temporal-spectral-angular observation model that integrates observations from UAV and mobile mapping vehicle for better urban mapping. Geo-Spatial Information Science, 2021, 24, 615-629.	2.4	13
79	Adaptive dense pyramid network for object detection in UAV imagery. Neurocomputing, 2022, 489, 377-389.	3.5	13
80	Design and implementation of service-oriented spatial information sharing framework in digital city. Geo-Spatial Information Science, 2009, 12, 104-109.	2.4	12
81	Image City sharing platform and its typical applications. Science China Information Sciences, 2011, 54, 1738-1746.	2.7	11
82	Improved object-based convolutional neural network (IOCNN) to classify very high-resolution remote sensing images. International Journal of Remote Sensing, 2021, 42, 8318-8344.	1.3	11
83	Landslide hazard, susceptibility and risk assessment (HSRA) based on remote sensing and GIS data models: a case study of Muzaffarabad Pakistan. Stochastic Environmental Research and Risk Assessment, 2022, 36, 4041-4056.	1.9	11
84	Feature matching for illumination variation images. Journal of Electronic Imaging, 2015, 24, 033011.	0.5	10
85	Applying spectral mixture analysis for large-scale sub-pixel impervious cover estimation based on neighbourhood-specific endmember signature generation. Remote Sensing Letters, 2015, 6, 1-10.	0.6	10
86	A Fuzzy Logic-Based Approach for Modelling Uncertainty in Open Geospatial Data on Landfill Suitability Analysis. ISPRS International Journal of Geo-Information, 2020, 9, 737.	1.4	9
87	From digital map to spatial information multi-grid. , 0, , .		8
88	Using noâ€parameter statistic features for texture image retrieval. Sensor Review, 2011, 31, 144-153.	1.0	8
89	Heteroskedasticity tuned mixed-norm sparse regularization for face hallucination. Multimedia Tools and Applications, 2016, 75, 17273-17301.	2.6	8
90	Integrating Zhuhai-1 Hyperspectral Imagery With Sentinel-2 Multispectral Imagery to Improve High-Resolution Impervious Surface Area Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 2410-2424.	2.3	8

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91	Monitoring and Predicting Desert Locust Plague Severity in Asiaâ€“Africa Using Multisource Remote Sensing Time-Series Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8638-8652.	2.3	7
92	A multi-scale and multi-orientation image retrieval method based on rotation-invariant texture features. Science China Information Sciences, 2011, 54, 732-744.	2.7	6
93	Synergistic retrieval model of forest biomass using the integration of optical and microwave remote sensing. Journal of Applied Remote Sensing, 2015, 9, 096069.	0.6	6
94	SSCAN: A Spatialâ€“Spectral Cross Attention Network for Hyperspectral Image Denoising. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
95	An internal-external optimized convolutional neural network for arbitrary orientated object detection from optical remote sensing images. Geo-Spatial Information Science, 2021, 24, 654-665.	2.4	6
96	Continuous Multi-Angle Remote Sensing and Its Application in Urban Land Cover Classification. Remote Sensing, 2021, 13, 413.	1.8	6
97	Mapping impervious surfaces with a hierarchical spectral mixture analysis incorporating endmember spatial distribution. Geo-Spatial Information Science, 2022, 25, 550-567.	2.4	6
98	SAR-DRDNet: A SAR image despeckling network with detail recovery. Neurocomputing, 2022, 493, 253-267.	3.5	6
99	Quantifying Dynamic Coupling Coordination Degree of Humanâ€“Environmental Interactions during Urbanâ€“Rural Land Transitions of China. Land, 2022, 11, 935.	1.2	6
100	Pan-Sharpening Via High-Pass Modification Convolutional Neural Network. , 2021, , .		5
101	A prototype system of content-based retrieval of remote sensing images. , 0, , .		4
102	Ontology-Based Image Retrieval with SIFT Features. , 2010, , .		4
103	Semantic graph construction for 3D geospatial data of multi-versions. Optik, 2014, 125, 1730-1734.	1.4	4
104	Calibration of digital camera integration accuracy for low-cost oblique aerial photogrammetry. Geo-Spatial Information Science, 2015, 18, 90-96.	2.4	4
105	A multi-scale method for urban tree canopy clustering recognition using high-resolution image. Optik, 2015, 126, 1269-1276.	1.4	4
106	BTS: a binary tree sampling strategy for object identification based on deep learning. International Journal of Geographical Information Science, 0, , 1-27.	2.2	3
107	Internal and external spatialâ€“temporal constraints for person reidentification. Journal of Visual Communication and Image Representation, 2021, 80, 103302.	1.7	3
108	Pan-Sharpening via Deep Locally Linear Embedding Residual Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	3

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109	Application of M-band wavelet theory to texture analysis in content-based aerial image retrieval. , 0, , .		2
110	Construction of the Community Health Management and Service System Based on Spatial Information Grid. , 2007, , .		2
111	Estimation of forest aboveground biomass using the integration of spectral and textural features from GF-1 satellite image. , 2016, , .		2
112	Reconciling the inconsistency of annual temperature cycles modelled from Landsat and MODIS LSTs through a percentile approach. International Journal of Remote Sensing, 2021, 42, 7907-7930.	1.3	2
113	Improving Urban Land Cover Mapping with the Fusion of Optical and SAR Data Based on Feature Selection Strategy. Photogrammetric Engineering and Remote Sensing, 2022, 88, 17-28.	0.3	2
114	Spatiotemporal Temperature Fusion Based on a Deep Convolutional Network. Photogrammetric Engineering and Remote Sensing, 2022, 88, 93-101.	0.3	2
115	Combining ATC and 3D-CNN for reconstructing spatially and temporally continuous land surface temperature. International Journal of Applied Earth Observation and Geoinformation, 2022, 108, 102733.	1.4	2
116	Quantifying the sensitivity of SAR and optical images three-level fusions in land cover classification to registration errors. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102868.	0.9	2
117	Texture image retrieval based on Log-Polar transform and association rules mining. , 2011, , .		1
118	A Shadow Detection Method from Urban High Resolution Remote Sensing Image Based on Color Features of Shadow. , 2012, , .		1
119	Research on Medical Image Retrieval Based on Arbitrary Shape. , 2012, , .		1
120	BiCSNet: A Bidirectional Cross-Scale Backbone for Recognition and Localization. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4940-4952.	5.6	1
121	Assessing the Impact of Land Use Changes on Net Primary Productivity in Wuhan, China. Photogrammetric Engineering and Remote Sensing, 2022, 88, 189-197.	0.3	1
122	Comparing the Sensitivity of Pixel-Based and Sub-Watershed-Based Analytic Hierarchy Process to Weighting Criteria for Flood Hazard Estimation. Photogrammetric Engineering and Remote Sensing, 2022, 88, 343-352.	0.3	1
123	An Extended Watershed-Based AHP Model for Flood Hazard Estimation: Constraining Runoff Converging Indicators via MFD-Derived Sub-Watershed by Maximum Zonal Statistical Method. Remote Sensing, 2022, 14, 2465.	1.8	1
124	A topological 3D reconstruction of complicated buildings and crossroads. , 0, , .		0
125	An adapting object detection of infrared image based on optimal hybrid threshold surface. , 2008, , .		0
126	National Population Information System Based on Web Services. , 2008, , .		0

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127	3D Remote sensing images online refining. , 2009, , .		0
128	A study on semantic integration of remote sensing image data based on multi-agent cooperation. , 2010, , .		0
129	Intelligent management and service for Wisdom Scenic based on Internet of Things. , 2011, , .		0
130	Color constancy enhancement under poor illumination: errata. Optics Letters, 2013, 38, 2516.	1.7	0
131	Geographically Weighted Regression Modeling Using Optical and Lidar Data to Map Aboveground Biomass of Urban Trees. , 2021, , .		0
132	å½±åƒåŸŽå¸‚å…±äº«å¹³å°åŠå…¶åº”ç”¨. Scientia Sinica Informationis, 2011, 41, 649-658.	0.2	0