

Zhenfeng Shao

List of Publications by Year in descending order

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132
papers

5,648
citations

70961

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133
docs citations

133
times ranked

4548
citing authors

#	ARTICLE	IF	CITATIONS
1	SSCAN: A Spatialâ€“Spectral Cross Attention Network for Hyperspectral Image Denoising. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
2	A Dual-Path Fusion Network for Pan-Sharpener. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	14
3	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
4	Robust feature matching via neighborhood manifold representation consensus. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 183, 196-209.	4.9	25
5	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
6	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
7	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
8	Spatiotemporal Temperature Fusion Based on a Deep Convolutional Network. Photogrammetric Engineering and Remote Sensing, 2022, 88, 93-101.	0.3	2
9	Unequal weakening of urbanization and soil salinization on vegetation production capacity. Geoderma, 2022, 411, 115712.	2.3	30
10	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
11	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
12	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
13	Mapping impervious surfaces with a hierarchical spectral mixture analysis incorporating endmember spatial distribution. Geo-Spatial Information Science, 2022, 25, 550-567.	2.4	6
14	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
15	Adaptive dense pyramid network for object detection in UAV imagery. Neurocomputing, 2022, 489, 377-389.	3.5	13
16	Pan-Sharpener via Deep Locally Linear Embedding Residual Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	3
17	SAR-DRDNet: A SAR image despeckling network with detail recovery. Neurocomputing, 2022, 493, 253-267.	3.5	6
18	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

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19	Landslide hazard, susceptibility and risk assessment (HSRA) based on remote sensing and GIS data models: a case study of Muzaffarabad Pakistan. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 4041-4056.	1.9	11
20	An Extended Watershed-Based AHP Model for Flood Hazard Estimation: Constraining Runoff Converging Indicators via MFD-Derived Sub-Watershed by Maximum Zonal Statistical Method. <i>Remote Sensing</i> , 2022, 14, 2465.	1.8	1
21	Quantifying Dynamic Coupling Coordination Degree of Human-Environmental Interactions during Urban-Rural Land Transitions of China. <i>Land</i> , 2022, 11, 935.	1.2	6
22	Quantifying the sensitivity of SAR and optical images three-level fusions in land cover classification to registration errors. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 112, 102868.	0.9	2
23	Urban sprawl and its impact on sustainable urban development: a combination of remote sensing and social media data. <i>Geo-Spatial Information Science</i> , 2021, 24, 241-255.	2.4	130
24	MFF-GAN: An unsupervised generative adversarial network with adaptive and gradient joint constraints for multi-focus image fusion. <i>Information Fusion</i> , 2021, 66, 40-53.	11.7	151
25	Assessing of Urban Vegetation Biomass in Combination with LiDAR and High-resolution Remote Sensing Images. <i>International Journal of Remote Sensing</i> , 2021, 42, 964-985.	1.3	52
26	GANMcC: A Generative Adversarial Network With Multiclassification Constraints for Infrared and Visible Image Fusion. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-14.	2.4	91
27	A Comparative Analysis of Index-Based Methods for Impervious Surface Mapping Using Multiseasonal Sentinel-2 Satellite Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 3682-3694.	2.3	18
28	MRENet: Simultaneous Extraction of Road Surface and Road Centerline in Complex Urban Scenes from Very High-Resolution Images. <i>Remote Sensing</i> , 2021, 13, 239.	1.8	53
29	Spatio-temporal-spectral observation model for urban remote sensing. <i>Geo-Spatial Information Science</i> , 2021, 24, 372-386.	2.4	37
30	Mapping Impervious Surface Areas Using Time-Series Nighttime Light and MODIS Imagery. <i>Remote Sensing</i> , 2021, 13, 1900.	1.8	15
31	SDPNet: A Deep Network for Pan-Sharpener With Enhanced Information Representation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 4120-4134.	2.7	45
32	Meta-FSEO: A Meta-Learning Fast Adaptation with Self-Supervised Embedding Optimization for Few-Shot Remote Sensing Scene Classification. <i>Remote Sensing</i> , 2021, 13, 2776.	1.8	19
33	Spatial-temporal pooling for action recognition in videos. <i>Neurocomputing</i> , 2021, 451, 265-278.	3.5	20
34	Pan-Sharpener Via High-Pass Modification Convolutional Neural Network. , 2021, , .		5
35	Reconciling the inconsistency of annual temperature cycles modelled from Landsat and MODIS LSTs through a percentile approach. <i>International Journal of Remote Sensing</i> , 2021, 42, 7907-7930.	1.3	2
36	A review of multimodal image matching: Methods and applications. <i>Information Fusion</i> , 2021, 73, 22-71.	11.7	209

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37	Spatio-temporal-spectral-angular observation model that integrates observations from UAV and mobile mapping vehicle for better urban mapping. <i>Geo-Spatial Information Science</i> , 2021, 24, 615-629.	2.4	13
38	An internal-external optimized convolutional neural network for arbitrary orientated object detection from optical remote sensing images. <i>Geo-Spatial Information Science</i> , 2021, 24, 654-665.	2.4	6
39	Internal and external spatial-temporal constraints for person reidentification. <i>Journal of Visual Communication and Image Representation</i> , 2021, 80, 103302.	1.7	3
40	Monitoring, analyzing and predicting urban surface subsidence: A case study of Wuhan City, China. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 102, 102422.	1.4	14
41	Multi-scale adversarial network for vehicle detection in UAV imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 180, 283-295.	4.9	30
42	Evolution of soil salinization under the background of landscape patterns in the irrigated northern slopes of Tianshan Mountains, Xinjiang, China. <i>Catena</i> , 2021, 206, 105561.	2.2	36
43	Finer-scale spatiotemporal coupling coordination model between socioeconomic activity and eco-environment: A case study of Beijing, China. <i>Ecological Indicators</i> , 2021, 131, 108165.	2.6	34
44	Enhanced image prior for unsupervised remoting sensing super-resolution. <i>Neural Networks</i> , 2021, 143, 400-412.	3.3	15
45	Continuous Multi-Angle Remote Sensing and Its Application in Urban Land Cover Classification. <i>Remote Sensing</i> , 2021, 13, 413.	1.8	6
46	Monitoring and Predicting Desert Locust Plague Severity in Asia-Africa Using Multisource Remote Sensing Time-Series Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 8638-8652.	2.3	7
47	Geographically Weighted Regression Modeling Using Optical and Lidar Data to Map Aboveground Biomass of Urban Trees. , 2021, , .		0
48	Improved object-based convolutional neural network (IOCNN) to classify very high-resolution remote sensing images. <i>International Journal of Remote Sensing</i> , 2021, 42, 8318-8344.	1.3	11
49	DSA-Net: A novel deeply supervised attention-guided network for building change detection in high-resolution remote sensing images. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 105, 102591.	1.4	39
50	Saliency-Aware Convolution Neural Network for Ship Detection in Surveillance Video. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 781-794.	5.6	133
51	Multi-Temporal Ultra Dense Memory Network for Video Super-Resolution. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2020, 30, 2503-2516.	5.6	94
52	Integrated remote sensing and GIS approach using Fuzzy-AHP to delineate and identify groundwater potential zones in semi-arid Shanxi Province, China. <i>Environmental Modelling and Software</i> , 2020, 134, 104868.	1.9	105
53	Exploring the Relationship between Urbanization and Ecological Environment Using Remote Sensing Images and Statistical Data: A Case Study in the Yangtze River Delta, China. <i>Sustainability</i> , 2020, 12, 5620.	1.6	43
54	Identification of Potential Sites for a Multi-Purpose Dam Using a Dam Suitability Stream Model. <i>Water (Switzerland)</i> , 2020, 12, 3249.	1.2	26

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55	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
56	Object Detection in UAV Images via Global Density Fused Convolutional Network. Remote Sensing, 2020, 12, 3140.	1.8	49
57	IHS-GTF: A Fusion Method for Optical and Synthetic Aperture Radar Data. Remote Sensing, 2020, 12, 2796.	1.8	36
58	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
59	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
60	BRRNet: A Fully Convolutional Neural Network for Automatic Building Extraction From High-Resolution Remote Sensing Images. Remote Sensing, 2020, 12, 1050.	1.8	146
61	Arsenic in a groundwater environment in Bangladesh: Occurrence and mobilization. Journal of Environmental Management, 2020, 262, 110318.	3.8	96
62	Advances of geo-spatial intelligence at LIESMARS. Geo-Spatial Information Science, 2020, 23, 40-51.	2.4	18
63	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
64	Remote sensing monitoring of multi-scale watersheds impermeability for urban hydrological evaluation. Remote Sensing of Environment, 2019, 232, 111338.	4.6	136
65	Deep Learning Based Retrieval of Forest Aboveground Biomass from Combined LiDAR and Landsat 8 Data. Remote Sensing, 2019, 11, 1459.	1.8	105
66	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
67	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
68	Spatiotemporal Pattern Analysis of China's Cities Based on High-Resolution Imagery from 2000 to 2015. ISPRS International Journal of Geo-Information, 2019, 8, 241.	1.4	18
69	User Identification across Asynchronous Mobility Trajectories. Sensors, 2019, 19, 2102.	2.1	17
70	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
71	Challenges and opportunities for the development of MEGACITIES. International Journal of Digital Earth, 2019, 12, 1382-1395.	1.6	36
72	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

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73	Smart Monitoring Cameras Driven Intelligent Processing to Big Surveillance Video Data. IEEE Transactions on Big Data, 2018, 4, 105-116.	4.4	95
74	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
75	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
76	SeaShips: A Large-Scale Precisely Annotated Dataset for Ship Detection. IEEE Transactions on Multimedia, 2018, 20, 2593-2604.	5.2	198
77	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
78	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
79	Fuzzy AutoEncode Based Cloud Detection for Remote Sensing Imagery. Remote Sensing, 2017, 9, 311.	1.8	42
80	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
81	Learning Low Dimensional Convolutional Neural Networks for High-Resolution Remote Sensing Image Retrieval. Remote Sensing, 2017, 9, 489.	1.8	162
82	Mapping Urban Impervious Surface by Fusing Optical and SAR Data at the Decision Level. Remote Sensing, 2016, 8, 945.	1.8	82
83	A Multi-View Dense Point Cloud Generation Algorithm Based on Low-Altitude Remote Sensing Images. Remote Sensing, 2016, 8, 381.	1.8	28
84	A Comprehensive Evaluation of Urban Sustainable Development in China Based on the TOPSIS-Entropy Method. Sustainability, 2016, 8, 746.	1.6	139
85	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
86	Estimation of forest aboveground biomass using the integration of spectral and textural features from GF-1 satellite image. , 2016, , .		2
87	Deep feature representations for high-resolution remote sensing scene classification. , 2016, , .		14
88	Heteroskedasticity tuned mixed-norm sparse regularization for face hallucination. Multimedia Tools and Applications, 2016, 75, 17273-17301.	2.6	8
89	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
90	An effective hyperspectral image retrieval method using integrated spectral and textural features. Sensor Review, 2015, 35, 274-281.	1.0	15

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91	Feature matching for illumination variation images. <i>Journal of Electronic Imaging</i> , 2015, 24, 033011.	0.5	10
92	Calibration of digital camera integration accuracy for low-cost oblique aerial photogrammetry. <i>Geo-Spatial Information Science</i> , 2015, 18, 90-96.	2.4	4
93	Applying spectral mixture analysis for large-scale sub-pixel impervious cover estimation based on neighbourhood-specific endmember signature generation. <i>Remote Sensing Letters</i> , 2015, 6, 1-10.	0.6	10
94	Development of a multi-scale object-based shadow detection method for high spatial resolution image. <i>Remote Sensing Letters</i> , 2015, 6, 59-68.	0.6	25
95	A multi-scale method for urban tree canopy clustering recognition using high-resolution image. <i>Optik</i> , 2015, 126, 1269-1276.	1.4	4
96	High-resolution remote-sensing imagery retrieval using sparse features by auto-encoder. <i>Remote Sensing Letters</i> , 2015, 6, 775-783.	0.6	71
97	“Big data”™ for pedestrian volume: Exploring the use of Google Street View images for pedestrian counts. <i>Applied Geography</i> , 2015, 63, 337-345.	1.7	149
98	Illumination and Contrast Balancing for Remote Sensing Images. <i>Remote Sensing</i> , 2014, 6, 1102-1123.	1.8	19
99	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. <i>Remote Sensing</i> , 2014, 6, 9359-9378.	1.8	86
100	A novel remote sensing image retrieval method based on visual salient point features. <i>Sensor Review</i> , 2014, 34, 349-359.	1.0	13
101	Thin cloud removal from single satellite images. <i>Optics Express</i> , 2014, 22, 618.	1.7	42
102	Improved color texture descriptors for remote sensing image retrieval. <i>Journal of Applied Remote Sensing</i> , 2014, 8, 083584.	0.6	47
103	Semantic graph construction for 3D geospatial data of multi-versions. <i>Optik</i> , 2014, 125, 1730-1734.	1.4	4
104	From digital Earth to smart Earth. <i>Science Bulletin</i> , 2014, 59, 722-733.	1.7	56
105	A Novel Hierarchical Semisupervised SVM for Classification of Hyperspectral Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1609-1613.	1.4	41
106	BASI: a new index to extract built-up areas from high-resolution remote sensing images by visual attention model. <i>Remote Sensing Letters</i> , 2014, 5, 305-314.	0.6	27
107	Geomatics for Smart Cities - Concept, Key Techniques, and Applications. <i>Geo-Spatial Information Science</i> , 2013, 16, 13-24.	2.4	67
108	Scale and rotation robust line-based matching for high resolution images. <i>Optik</i> , 2013, 124, 5318-5322.	1.4	13

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109	Color constancy enhancement under poor illumination: errata. Optics Letters, 2013, 38, 2516.	1.7	0
110	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
111	A Shadow Detection Method from Urban High Resolution Remote Sensing Image Based on Color Features of Shadow. , 2012, , .		1
112	Research on Medical Image Retrieval Based on Arbitrary Shape. , 2012, , .		1
113	Intelligent management and service for Wisdom Scenic based on Internet of Things. , 2011, , .		0
114	Texture image retrieval based on Log-Polar transform and association rules mining. , 2011, , .		1
115	Color constancy enhancement under poor illumination. Optics Letters, 2011, 36, 4821.	1.7	17
116	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
117	Image City sharing platform and its typical applications. Science China Information Sciences, 2011, 54, 1738-1746.	2.7	11
118	Using noâ€parameter statistic features for texture image retrieval. Sensor Review, 2011, 31, 144-153.	1.0	8
119	â1/2±âfâŸŽâ,â...±â°«â13â°âŠâ...¶â...âžâ°”ç””: Scientia Sinica Informationis, 2011, 41, 649-658.	0.2	0
120	Ontology-Based Image Retrieval with SIFT Features. , 2010, , .		4
121	A study on semantic integration of remote sensing image data based on multi-agent cooperation. , 2010, , .		0
122	3D Remote sensing images online refining. , 2009, , .		0
123	Design and implementation of service-oriented spatial information sharing framework in digital city. Geo-Spatial Information Science, 2009, 12, 104-109.	2.4	12
124	The new era for geo-information. Science in China Series F: Information Sciences, 2009, 52, 1233-1242.	1.1	34
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	Construction of the Community Health Management and Service System Based on Spatial Information Grid. , 2007, , .		2
128	A topological 3D reconstruction of complicated buildings and crossroads. , 0, , .		0
129	A prototype system of content-based retrieval of remote sensing images. , 0, , .		4
130	From digital map to spatial information multi-grid. , 0, , .		8
131	Application of M-band wavelet theory to texture analysis in content-based aerial image retrieval. , 0, , .		2
132	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