

Bi-sheng Yang

List of Publications by Year in descending order

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116
papers

4,719
citations

87723

38
h-index

110170

64
g-index

119
all docs

119
docs citations

119
times ranked

3259
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated 3D Road Boundary Extraction and Vectorization Using MLS Point Clouds. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5287-5297.	4.7	19
2	A hierarchical approach for refining point cloud quality of a low cost UAV LiDAR system in the urban environment. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 183, 403-421.	4.9	11
3	3D-CSTM: A 3D continuous spatio-temporal mapping method. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 186, 232-245.	4.9	14
4	Feature fusion-based registration of satellite images to airborne LiDAR bathymetry in island area. International Journal of Applied Earth Observation and Geoinformation, 2022, 109, 102778.	0.9	1
5	Street-view imagery guided street furniture inventory from mobile laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 189, 63-77.	4.9	6
6	Geometric feature enhanced line segment extraction from large-scale point clouds with hierarchical topological optimization. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102858.	0.9	5
7	CG-SSD: Corner guided single stage 3D object detection from LiDAR point cloud. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 191, 33-48.	4.9	17
8	Acoustic Seabed Classification Based on Multibeam Echosounder Backscatter Data Using the PSO-BP-AdaBoost Algorithm: A Case Study From Jiaozhou Bay, China. IEEE Journal of Oceanic Engineering, 2021, 46, 509-519.	2.1	25
9	Exploring the Impact of 2-D/3-D Building Morphology on the Land Surface Temperature: A Case Study of Three Megacities in China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4933-4945.	2.3	13
10	A Probabilistic Method for Fractured Cultural Relics Automatic Reassembly. Journal on Computing and Cultural Heritage, 2021, 14, 1-25.	1.2	5
11	Mapping the spatio-temporal visibility of global navigation satellites in the urban road areas based on panoramic imagery. International Journal of Digital Earth, 2021, 14, 807-820.	1.6	6
12	A maximum bathymetric depth model to simulate satellite photon-counting lidar performance. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 174, 182-197.	4.9	28
13	A Strip Adjustment Method of UAV-Borne LiDAR Point Cloud Based on DEM Features for Mountainous Area. Sensors, 2021, 21, 2782.	2.1	9
14	A point-based deep learning network for semantic segmentation of MLS point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 175, 199-214.	4.9	44
15	Integrated environmental and human observations for smart cities. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 1375-1379.	1.0	2
16	Highway alignments extraction and 3D modeling from airborne laser scanning point clouds. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102429.	1.4	8
17	A two-stage approach for road marking extraction and modeling using MLS point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 180, 255-268.	4.9	22
18	A Coarse-to-Fine Strip Mosaicing Model for Airborne Bathymetric LiDAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8129-8142.	2.7	10

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19	Confidence-guided roadside individual tree extraction for ecological benefit estimation. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 102, 102368.	1.4	2
20	JoKNet: A joint keypoint detection and description network for large-scale outdoor TLS point clouds registration. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 104, 102534.	1.4	8
21	Autonomous Vehicle Localization with Prior Visual Point Cloud Map Constraints in GNSS-Challenged Environments. <i>Remote Sensing</i> , 2021, 13, 506.	1.8	20
22	Dense 3D surface reconstruction of large-scale streetscape from vehicle-borne imagery and LiDAR. <i>International Journal of Digital Earth</i> , 2021, 14, 619-639.	1.6	5
23	Density-Adaptive and Geometry-Aware Registration of TLS Point Clouds Based on Coherent Point Drift. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 1628-1632.	1.4	6
24	Land surface temperature relation with normalized satellite indices for the estimation of spatio-temporal trends in temperature among various land use land cover classes of an arid Potohar region using Landsat data. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	83
25	Satellite-derived bathymetry using the ICESat-2 lidar and Sentinel-2 imagery datasets. <i>Remote Sensing of Environment</i> , 2020, 250, 112047.	4.6	149
26	Fast registration of forest terrestrial laser scans using key points detected from crowns and stems. <i>International Journal of Digital Earth</i> , 2020, 13, 1585-1603.	1.6	10
27	A novel skyline context descriptor for rapid localization of terrestrial laser scans to airborne laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 165, 120-132.	4.9	13
28	Seabed sediment classification using multibeam backscatter data based on the selecting optimal random forest model. <i>Applied Acoustics</i> , 2020, 167, 107387.	1.7	34
29	Editorial for Special Issue: "Remote Sensing based Building Extraction". <i>Remote Sensing</i> , 2020, 12, 549.	1.8	4
30	Registration of large-scale terrestrial laser scanner point clouds: A review and benchmark. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2020, 163, 327-342.	4.9	220
31	Automated fusion of forest airborne and terrestrial point clouds through canopy density analysis. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 156, 94-107.	4.9	37
32	HPM-TDP: An efficient hierarchical PatchMatch depth estimation approach using tree dynamic programming. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 155, 37-57.	4.9	7
33	NRLI-UAV: Non-rigid registration of sequential raw laser scans and images for low-cost UAV LiDAR point cloud quality improvement. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2019, 158, 123-145.	4.9	37
34	Automatic 3-D Reconstruction of Indoor Environment With Mobile Laser Scanning Point Clouds. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 3117-3130.	2.3	49
35	Estimation of Forest Structural Attributes Using Spectral Indices and Point Clouds from UAS-Based Multispectral and RGB Imageries. <i>Remote Sensing</i> , 2019, 11, 800.	1.8	32
36	An Accurate TLS and UAV Image Point Clouds Registration Method for Deformation Detection of Chaotic Hillside Areas. <i>Remote Sensing</i> , 2019, 11, 647.	1.8	29

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37	3D Forest Mapping Using A Low-Cost UAV Laser Scanning System: Investigation and Comparison. Remote Sensing, 2019, 11, 717.	1.8	39
38	A Bidirectional Analysis Method for Extracting Glacier Crevasses from Airborne LiDAR Point Clouds. Remote Sensing, 2019, 11, 2373.	1.8	5
39	Automatic Extraction of High-Voltage Power Transmission Objects from UAV Lidar Point Clouds. Remote Sensing, 2019, 11, 2600.	1.8	48
40	An efficient method of monitoring slow-moving landslides with long-range terrestrial laser scanning: a case study of the Dashu landslide in the Three Gorges Reservoir Region, China. Landslides, 2019, 16, 839-855.	2.7	29
41	Improved Priority Flood method for depression filling by redundant calculation optimization in local micro-relief areas. Transactions in GIS, 2019, 23, 259-274.	1.0	8
42	A terrain openness index for the extraction of karst Fenglin and Fengcong landform units from DEMs. Journal of Mountain Science, 2018, 15, 752-764.	0.8	15
43	An efficient global energy optimization approach for robust 3D plane segmentation of point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 137, 112-133.	4.9	104
44	Automatic registration of panoramic image sequence and mobile laser scanning data using semantic features. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 136, 41-57.	4.9	36
45	Multilevel Solar Potential Analysis of Building Based on Ubiquitous Point Clouds. , 2018, , .		2
46	Compositional Structure Recognition of 3D Building Models Through Volumetric Analysis. IEEE Access, 2018, 6, 33953-33968.	2.6	8
47	Iterative Global Similarity Points: A Robust Coarse-to-Fine Integration Solution for Pairwise 3D Point Cloud Registration. , 2018, , .		19
48	Towards Reconstructing 3D Buildings from ALS Data Based on Gestalt Laws. Remote Sensing, 2018, 10, 1127.	1.8	19
49	International benchmarking of terrestrial laser scanning approaches for forest inventories. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 144, 137-179.	4.9	254
50	Calibrate Multiple Consumer RGB-D Cameras for Low-Cost and Efficient 3D Indoor Mapping. Remote Sensing, 2018, 10, 328.	1.8	42
51	Automatic Clearance Anomaly Detection for Transmission Line Corridors Utilizing UAV-Borne LIDAR Data. Remote Sensing, 2018, 10, 613.	1.8	62
52	Novel Adaptive Laser Scanning Method for Point Clouds of Free-Form Objects. Sensors, 2018, 18, 2239.	2.1	11
53	Hierarchical registration of unordered TLS point clouds based on binary shape context descriptor. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 144, 61-79.	4.9	87
54	A new method for 3D individual tree extraction using multispectral airborne LiDAR point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 144, 400-411.	4.9	109

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55	A top-down strategy for buildings extraction from complex urban scenes using airborne LiDAR point clouds. <i>Infrared Physics and Technology</i> , 2018, 92, 203-218.	1.3	30
56	Computing multiple aggregation levels and contextual features for road facilities recognition using mobile laser scanning data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 126, 180-194.	4.9	80
57	A novel binary shape context for 3D local surface description. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 130, 431-452.	4.9	91
58	3D local feature BKD to extract road information from mobile laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 130, 329-343.	4.9	50
59	Automated Reconstruction of Building LoDs from Airborne LiDAR Point Clouds Using an Improved Morphological Scale Space. <i>Remote Sensing</i> , 2017, 9, 14.	1.8	45
60	A Triangular Prism Spatial Interpolation Method for Mapping Geological Property Fields. <i>ISPRS International Journal of Geo-Information</i> , 2017, 6, 241.	1.4	7
61	Automatic Forest Mapping at Individual Tree Levels from Terrestrial Laser Scanning Point Clouds with a Hierarchical Minimum Cut Method. <i>Remote Sensing</i> , 2016, 8, 372.	1.8	68
62	Two-step adaptive extraction method for ground points and breaklines from lidar point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 119, 373-389.	4.9	79
63	Dynamic occlusion detection and inpainting of in situ captured terrestrial laser scanning point clouds sequence. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 119, 90-107.	4.9	28
64	Mobile mapping with ubiquitous point clouds. <i>Geo-Spatial Information Science</i> , 2016, 19, 169-170.	2.4	5
65	Automatic registration of large-scale urban scene point clouds based on semantic feature points. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 113, 43-58.	4.9	122
66	A polygon-based approach for matching OpenStreetMap road networks with regional transit authority data. <i>International Journal of Geographical Information Science</i> , 2016, 30, 748-764.	2.2	62
67	Pattern-mining approach for conflating crowdsourcing road networks with POIs. <i>International Journal of Geographical Information Science</i> , 2015, 29, 786-805.	2.2	15
68	Automatic registration of multi-view terrestrial laser scanning point clouds in complex urban environments. , 2015, , .		0
69	Automatic registration of UAV-borne sequent images and LiDAR data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 101, 262-274.	4.9	103
70	An automated method to register airborne and terrestrial laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 109, 62-76.	4.9	61
71	Extraction 3D road boundaries from mobile laser scanning point clouds. , 2015, , .		7
72	Hierarchical extraction of urban objects from mobile laser scanning data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 99, 45-57.	4.9	181

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73	Automated Extraction of 3-D Railway Tracks from Mobile Laser Scanning Point Clouds. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4750-4761.	2.3	58
74	A Pattern-Based Approach for Matching Nodes in Heterogeneous Urban Road Networks. Transactions in GIS, 2014, 18, 718-739.	1.0	20
75	Geometric-based approach for integrating VGI POIs and road networks. International Journal of Geographical Information Science, 2014, 28, 126-147.	2.2	26
76	Using mobile laser scanning data for automated extraction of road markings. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 87, 93-107.	4.9	205
77	Extracting buildings from airborne laser scanning point clouds using a marked point process. GIScience and Remote Sensing, 2014, 51, 555-574.	2.4	14
78	Polygon-based approach for extracting multilane roads from OpenStreetMap urban road networks. International Journal of Geographical Information Science, 2014, 28, 2200-2219.	2.2	28
79	Automated registration of dense terrestrial laser-scanning point clouds using curves. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 95, 109-121.	4.9	93
80	Spatial data Internet progressive transmission control based on the geometric shapes similarity. International Journal of Control, Automation and Systems, 2014, 12, 1110-1117.	1.6	1
81	A shape-based segmentation method for mobile laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 81, 19-30.	4.9	173
82	Semiautomated Building Facade Footprint Extraction From Mobile LiDAR Point Clouds. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 766-770.	1.4	66
83	Geometric structure simplification of 3D building models. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 84, 100-113.	4.9	27
84	Automated Extraction of Building Outlines From Airborne Laser Scanning Point Clouds. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1399-1403.	1.4	57
85	Semi-automated extraction and delineation of 3D roads of street scene from mobile laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 79, 80-93.	4.9	194
86	A probabilistic relaxation approach for matching road networks. International Journal of Geographical Information Science, 2013, 27, 319-338.	2.2	64
87	Integrating Multi-Source POIs and Road Networks Based on Geometric Data. , 2013, , .		1
88	Feature-Preserved Geometry Simplification of Triangular Meshes from LiDAR Sensor. Sensor Letters, 2013, 11, 787-795.	0.4	2
89	Automated Extraction of Road Markings from Mobile Lidar Point Clouds. Photogrammetric Engineering and Remote Sensing, 2012, 78, 331-338.	0.3	128
90	Automated extraction of street-scene objects from mobile lidar point clouds. International Journal of Remote Sensing, 2012, 33, 5839-5861.	1.3	69

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91	Automated abstraction of building models for 3D navigation on mobile devices. , 2011, , .		3
92	Multi-resolution representation of 3D complex building models with features preservation. , 2011, , .		6
93	Generating hierarchical strokes from urban street networks based on spatial pattern recognition. International Journal of Geographical Information Science, 2011, 25, 2025-2050.	2.2	46
94	An adaptive method for identifying the spatial patterns in road networks. Computers, Environment and Urban Systems, 2010, 34, 40-48.	3.3	41
95	Hierarchical model of road network for route planning in vehicle navigation systems. IEEE Intelligent Transportation Systems Magazine, 2009, 1, 20-24.	2.6	20
96	Editorial: Some thoughts on progressive transmission of spatial datasets in the web environment. Computers and Geosciences, 2009, 35, 2175-2176.	2.0	10
97	Efficient compression of vector data map based on a clustering model. Geo-Spatial Information Science, 2009, 12, 13-17.	2.4	11
98	An MRDB approach for propagating updates across navigable maps at different resolutions. , 2009, , .		0
99	A framework of spatio-temporal data adaptive visualizations for mobile environment. , 2009, , .		0
100	Hierarchical route planning based on taxi GPS-trajectories. , 2009, , .		5
101	K Nearest Neighbors search considering traffic restriction for Location Based Service. , 2009, , .		3
102	A Multi-parameter Approach to Automated Building Grouping and Generalization. Geoinformatica, 2008, 12, 73-89.	2.0	54
103	Variable-resolution Compression of Vector Data. Geoinformatica, 2008, 12, 357-376.	2.0	13
104	Multi-resolution representation of digital terrain models with terrain features preservation. Science in China Series D: Earth Sciences, 2008, 51, 145-154.	0.9	11
105	A view-dependent method for the multi-resolution representation of terrains with roads embedded. International Journal of Remote Sensing, 2007, 28, 319-334.	1.3	1
106	Efficient transmission of vector data over the Internet. International Journal of Geographical Information Science, 2007, 21, 215-237.	2.2	49
107	The design and implementation of SPIRIT: a spatially aware search engine for information retrieval on the Internet. International Journal of Geographical Information Science, 2007, 21, 717-745.	2.2	127
108	A robust and rapid algorithm for generating and transmitting multi-resolution three-dimensional models. Science Bulletin, 2006, 51, 987-993.	1.7	3

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109	A Dynamic Method for Generating Multi-Resolution TIN Models. Photogrammetric Engineering and Remote Sensing, 2005, 71, 917-926.	0.3	10
110	Constructing multi-resolution triangulated irregular network model for visualization. Computers and Geosciences, 2005, 31, 77-86.	2.0	19
111	A multi-resolution model of vector map data for rapid transmission over the Internet. Computers and Geosciences, 2005, 31, 569-578.	2.0	49
112	An integrated TIN and Grid method for constructing multi-resolution digital terrain models. International Journal of Geographical Information Science, 2005, 19, 1019-1038.	2.2	40
113	An object-oriented data model for complex objects in three-dimensional geographical information systems. International Journal of Geographical Information Science, 2003, 17, 411-430.	2.2	39
114	USING MOBILE LASER SCANNING DATA FOR FEATURES EXTRACTION OF HIGH ACCURACY DRIVING MAPS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 433-439.	0.2	6
115	USING MOBILE LASER SCANNING DATA FOR FEATURES EXTRACTION OF HIGH ACCURACY DRIVING MAPS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 433-439.	0.2	4
116	LOW COST AND EFFICIENT 3D INDOOR MAPPING USING MULTIPLE CONSUMER RGB-D CAMERAS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B1, 169-174.	0.2	2