

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	International benchmarking of terrestrial laser scanning approaches for forest inventories. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 144, 137-179.	4.9	254
2	Registration of large-scale terrestrial laser scanner point clouds: A review and benchmark. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 163, 327-342.	4.9	220
3	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
4	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
5	Hierarchical extraction of urban objects from mobile laser scanning data. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 99, 45-57.	4.9	181
6	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
7	Satellite-derived bathymetry using the ICESat-2 lidar and Sentinel-2 imagery datasets. Remote Sensing of Environment, 2020, 250, 112047.	4.6	149
8	Automated Extraction of Road Markings from Mobile Lidar Point Clouds. Photogrammetric Engineering and Remote Sensing, 2012, 78, 331-338.	0.3	128
9	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
10	Automatic registration of large-scale urban scene point clouds based on semantic feature points. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 113, 43-58.	4.9	122
11	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
12	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
13	Automatic registration of UAV-borne sequent images and LiDAR data. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 101, 262-274.	4.9	103
14	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
15	A novel binary shape context for 3D local surface description. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 130, 431-452.	4.9	91
16	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
17	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. Environmental Earth Sciences, 2020, 79, 1.	1.3	83
18	Computing multiple aggregation levels and contextual features for road facilities recognition using mobile laser scanning data. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 126, 180-194.	4.9	80

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19	Two-step adaptive extraction method for ground points and breaklines from lidar point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 119, 373-389.	4.9	79
20	Automated extraction of street-scene objects from mobile lidar point clouds. International Journal of Remote Sensing, 2012, 33, 5839-5861.	1.3	69
21	Automatic Forest Mapping at Individual Tree Levels from Terrestrial Laser Scanning Point Clouds with a Hierarchical Minimum Cut Method. Remote Sensing, 2016, 8, 372.	1.8	68
22	Semiautomated Building Facade Footprint Extraction From Mobile LiDAR Point Clouds. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 766-770.	1.4	66
23	A probabilistic relaxation approach for matching road networks. International Journal of Geographical Information Science, 2013, 27, 319-338.	2.2	64
24	A polygon-based approach for matching OpenStreetMap road networks with regional transit authority data. International Journal of Geographical Information Science, 2016, 30, 748-764.	2.2	62
25	Automatic Clearance Anomaly Detection for Transmission Line Corridors Utilizing UAV-Borne LIDAR Data. Remote Sensing, 2018, 10, 613.	1.8	62
26	An automated method to register airborne and terrestrial laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 109, 62-76.	4.9	61
27	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
28	Automated Extraction of Building Outlines From Airborne Laser Scanning Point Clouds. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1399-1403.	1.4	57
29	A Multi-parameter Approach to Automated Building Grouping and Generalization. Geoinformatica, 2008, 12, 73-89.	2.0	54
30	3D local feature BKD to extract road information from mobile laser scanning point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 130, 329-343.	4.9	50
31	A multi-resolution model of vector map data for rapid transmission over the Internet. Computers and Geosciences, 2005, 31, 569-578.	2.0	49
32	Efficient transmission of vector data over the Internet. International Journal of Geographical Information Science, 2007, 21, 215-237.	2.2	49
33	Automatic 3-D Reconstruction of Indoor Environment With Mobile Laser Scanning Point Clouds. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3117-3130.	2.3	49
34	Automatic Extraction of High-Voltage Power Transmission Objects from UAV Lidar Point Clouds. Remote Sensing, 2019, 11, 2600.	1.8	48
35	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
36	Automated Reconstruction of Building LoDs from Airborne LiDAR Point Clouds Using an Improved Morphological Scale Space. Remote Sensing, 2017, 9, 14.	1.8	45

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37	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
38	Calibrate Multiple Consumer RGB-D Cameras for Low-Cost and Efficient 3D Indoor Mapping. Remote Sensing, 2018, 10, 328.	1.8	42
39	An adaptive method for identifying the spatial patterns in road networks. Computers, Environment and Urban Systems, 2010, 34, 40-48.	3.3	41
40	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
41	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
42	3D Forest Mapping Using A Low-Cost UAV Laser Scanning System: Investigation and Comparison. Remote Sensing, 2019, 11, 717.	1.8	39
43	Automated fusion of forest airborne and terrestrial point clouds through canopy density analysis. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 156, 94-107.	4.9	37
44	NRLI-UAV: Non-rigid registration of sequential raw laser scans and images for low-cost UAV LiDAR point cloud quality improvement. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 123-145.	4.9	37
45	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
46	Seabed sediment classification using multibeam backscatter data based on the selecting optimal random forest model. Applied Acoustics, 2020, 167, 107387.	1.7	34
47	Estimation of Forest Structural Attributes Using Spectral Indices and Point Clouds from UAS-Based Multispectral and RGB Imageries. Remote Sensing, 2019, 11, 800.	1.8	32
48	A top-down strategy for buildings extraction from complex urban scenes using airborne LiDAR point clouds. Infrared Physics and Technology, 2018, 92, 203-218.	1.3	30
49	An Accurate TLS and UAV Image Point Clouds Registration Method for Deformation Detection of Chaotic Hillside Areas. Remote Sensing, 2019, 11, 647.	1.8	29
50	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
51	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
52	Dynamic occlusion detection and inpainting of in situ captured terrestrial laser scanning point clouds sequence. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 119, 90-107.	4.9	28
53	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
54	Geometric structure simplification of 3D building models. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 84, 100-113.	4.9	27

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55	Geometric-based approach for integrating VGI POIs and road networks. <i>International Journal of Geographical Information Science</i> , 2014, 28, 126-147.	2.2	26
56	Acoustic Seabed Classification Based on Multibeam Echosounder Backscatter Data Using the PSO-BP-AdaBoost Algorithm: A Case Study From Jiaozhou Bay, China. <i>IEEE Journal of Oceanic Engineering</i> , 2021, 46, 509-519.	2.1	25
57	A two-stage approach for road marking extraction and modeling using MLS point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 180, 255-268.	4.9	22
58	Hierarchical model of road network for route planning in vehicle navigation systems. <i>IEEE Intelligent Transportation Systems Magazine</i> , 2009, 1, 20-24.	2.6	20
59	A Pattern-Based Approach for Matching Nodes in Heterogeneous Urban Road Networks. <i>Transactions in GIS</i> , 2014, 18, 718-739.	1.0	20
60	Autonomous Vehicle Localization with Prior Visual Point Cloud Map Constraints in GNSS-Challenged Environments. <i>Remote Sensing</i> , 2021, 13, 506.	1.8	20
61	Constructing multi-resolution triangulated irregular network model for visualization. <i>Computers and Geosciences</i> , 2005, 31, 77-86.	2.0	19
62	Iterative Global Similarity Points: A Robust Coarse-to-Fine Integration Solution for Pairwise 3D Point Cloud Registration. , 2018, , .		19
63	Towards Reconstructing 3D Buildings from ALS Data Based on Gestalt Laws. <i>Remote Sensing</i> , 2018, 10, 1127.	1.8	19
64	Automated 3D Road Boundary Extraction and Vectorization Using MLS Point Clouds. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 5287-5297.	4.7	19
65	CG-SSD: Corner guided single stage 3D object detection from LiDAR point cloud. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 191, 33-48.	4.9	17
66	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
67	A terrain openness index for the extraction of karst Fenglin and Fengcong landform units from DEMs. <i>Journal of Mountain Science</i> , 2018, 15, 752-764.	0.8	15
68	Extracting buildings from airborne laser scanning point clouds using a marked point process. <i>GIScience and Remote Sensing</i> , 2014, 51, 555-574.	2.4	14
69	3D-CSTM: A 3D continuous spatio-temporal mapping method. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 186, 232-245.	4.9	14
70	Variable-resolution Compression of Vector Data. <i>Geoinformatica</i> , 2008, 12, 357-376.	2.0	13
71	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
72	Exploring the Impact of 2-D/3-D Building Morphology on the Land Surface Temperature:A Case Study of Three Megacities in China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 4933-4945.	2.3	13

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73	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
74	Efficient compression of vector data map based on a clustering model. Geo-Spatial Information Science, 2009, 12, 13-17.	2.4	11
75	Novel Adaptive Laser Scanning Method for Point Clouds of Free-Form Objects. Sensors, 2018, 18, 2239.	2.1	11
76	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
77	A Dynamic Method for Generating Multi-Resolution TIN Models. Photogrammetric Engineering and Remote Sensing, 2005, 71, 917-926.	0.3	10
78	Editorial: Some thoughts on progressive transmission of spatial datasets in the web environment. Computers and Geosciences, 2009, 35, 2175-2176.	2.0	10
79	Fast registration of forest terrestrial laser scans using key points detected from crowns and stems. International Journal of Digital Earth, 2020, 13, 1585-1603.	1.6	10
80	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
81	A Strip Adjustment Method of UAV-Borne LiDAR Point Cloud Based on DEM Features for Mountainous Area. Sensors, 2021, 21, 2782.	2.1	9
82	Compositional Structure Recognition of 3D Building Models Through Volumetric Analysis. IEEE Access, 2018, 6, 33953-33968.	2.6	8
83	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
84	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
85	JoKNet: A joint keypoint detection and description network for large-scale outdoor TLS point clouds registration. International Journal of Applied Earth Observation and Geoinformation, 2021, 104, 102534.	1.4	8
86	Extraction 3D road boundaries from mobile laser scanning point clouds. , 2015, , .		7
87	A Triangular Prism Spatial Interpolation Method for Mapping Geological Property Fields. ISPRS International Journal of Geo-Information, 2017, 6, 241.	1.4	7
88	HPM-TDP: An efficient hierarchical PatchMatch depth estimation approach using tree dynamic programming. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 155, 37-57.	4.9	7
89	Multi-resolution representation of 3D complex building models with features preservation. , 2011, , .		6
90	Density-Adaptive and Geometry-Aware Registration of TLS Point Clouds Based on Coherent Point Drift. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1628-1632.	1.4	6

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91	Mapping the spatio-temporal visibility of global navigation satellites in the urban road areas based on panoramic imagery. <i>International Journal of Digital Earth</i> , 2021, 14, 807-820.	1.6	6
92	USING MOBILE LASER SCANNING DATA FOR FEATURES EXTRACTION OF HIGH ACCURACY DRIVING MAPS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLI-B3, 433-439.	0.2	6
93	Street-view imagery guided street furniture inventory from mobile laser scanning point clouds. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022, 189, 63-77.	4.9	6
94	Hierarchical route planning based on taxi GPS-trajectories. , 2009, , .		5
95	Mobile mapping with ubiquitous point clouds. <i>Geo-Spatial Information Science</i> , 2016, 19, 169-170.	2.4	5
96	A Bidirectional Analysis Method for Extracting Glacier Crevasses from Airborne LiDAR Point Clouds. <i>Remote Sensing</i> , 2019, 11, 2373.	1.8	5
97	A Probabilistic Method for Fractured Cultural Relics Automatic Reassembly. <i>Journal on Computing and Cultural Heritage</i> , 2021, 14, 1-25.	1.2	5
98	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
99	Geometric feature enhanced line segment extraction from large-scale point clouds with hierarchical topological optimization. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022, 112, 102858.	0.9	5
100	Editorial for Special Issue: "Remote Sensing based Building Extraction". <i>Remote Sensing</i> , 2020, 12, 549.	1.8	4
101	USING MOBILE LASER SCANNING DATA FOR FEATURES EXTRACTION OF HIGH ACCURACY DRIVING MAPS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLI-B3, 433-439.	0.2	4
102	A robust and rapid algorithm for generating and transmitting multi-resolution three-dimensional models. <i>Science Bulletin</i> , 2006, 51, 987-993.	1.7	3
103	K Nearest Neighbors search considering traffic restriction for Location Based Service. , 2009, , .		3
104	Automated abstraction of building models for 3D navigation on mobile devices. , 2011, , .		3
105	Multilevel Solar Potential Analysis of Building Based on Ubiquitous Point Clouds. , 2018, , .		2
106	Integrated environmental and human observations for smart cities. <i>Environment and Planning B: Urban Analytics and City Science</i> , 2021, 48, 1375-1379.	1.0	2
107	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
108	Feature-Preserved Geometry Simplification of Triangular Meshes from LiDAR Sensor. <i>Sensor Letters</i> , 2013, 11, 787-795.	0.4	2

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109	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
110	A viewâ€dependent method for the multiâ€resolution representation of terrains with roads embedded. International Journal of Remote Sensing, 2007, 28, 319-334.	1.3	1
111	Integrating Multi-Source POIs and Road Networks Based on Geometric Data. , 2013, , .		1
112	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
113	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
114	An MRDB approach for propagating updates across navigable maps at different resolutions. , 2009, , .		0
115	A framework of spatio-temporal data adaptive visualizations for mobile environment. , 2009, , .		0
116	Automatic registration of multi-view terrestrial laser scanning point clouds in complex urban environments. , 2015, , .		0