

Pingbo Tang, ???

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,387
citations

16
h-index

36
g-index

70
ext. papers

1,668
ext. citations

6
avg, IF

4.82
L-index

#	Paper	IF	Citations
55	Automatic reconstruction of as-built building information models from laser-scanned point clouds: A review of related techniques. <i>Automation in Construction</i> , 2010 , 19, 829-843	9.6	585
54	Deviation analysis method for the assessment of the quality of the as-is Building Information Models generated from point cloud data. <i>Automation in Construction</i> , 2013 , 35, 507-516	9.6	105
53	Characterization of Laser Scanners and Algorithms for Detecting Flatness Defects on Concrete Surfaces. <i>Journal of Computing in Civil Engineering</i> , 2011 , 25, 31-42	5	90
52	Quantification of edge loss of laser scanned data at spatial discontinuities. <i>Automation in Construction</i> , 2009 , 18, 1070-1083	9.6	85
51	Rapid data quality oriented laser scan planning for dynamic construction environments. <i>Advanced Engineering Informatics</i> , 2016 , 30, 218-232	7.4	40
50	Comparative analysis of machine learning and point-based algorithms for detecting 3D changes in buildings over time using bi-temporal lidar data. <i>Automation in Construction</i> , 2019 , 105, 102841	9.6	36
49	Sensing and Field Data Capture for Construction and Facility Operations. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 870-881	4.2	36
48	Automatic building information model reconstruction in high-density urban areas: Augmenting multi-source data with architectural knowledge. <i>Automation in Construction</i> , 2018 , 93, 22-34	9.6	35
47	Formalization of workflows for extracting bridge surveying goals from laser-scanned data. <i>Automation in Construction</i> , 2012 , 22, 306-319	9.6	34
46	Automatic execution of workflows on laser-scanned data for extracting bridge surveying goals. <i>Advanced Engineering Informatics</i> , 2012 , 26, 889-903	7.4	31
45	Using laser scanners for modeling and analysis in architecture, engineering, and construction 2010 ,		22
44	Target-Focused Local Workspace Modeling for Construction Automation Applications. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 661-670	5	21
43	Planning for terrestrial laser scanning in construction: A review. <i>Automation in Construction</i> , 2021 , 125, 103551	9.6	19
42	A Comparative Analysis of Depth-Discontinuity and Mixed-Pixel Detection Algorithms. <i>International Conference on 3-D Digital Imaging and Modeling, Proceedings</i> , 2007 ,		17
41	Use of Value Engineering to Develop Creative Design Solutions for Marine Construction Projects. <i>Practice Periodical on Structural Design and Construction</i> , 2014 , 19, 129-136	1.2	16
40	Assessment of the quality of as-is building information models generated from point clouds using deviation analysis 2011 ,		16
39	Bridge Scour Identification and Field Application Based on Ambient Vibration Measurements of Superstructures. <i>Journal of Marine Science and Engineering</i> , 2019 , 7, 121	2.4	15

38	Human-centered automation for resilient nuclear power plant outage control. <i>Automation in Construction</i> , 2017 , 82, 179-192	9.6	14
37	Crowdsourced reliable labeling of safety-rule violations on images of complex construction scenes for advanced vision-based workplace safety. <i>Advanced Engineering Informatics</i> , 2019 , 42, 101001	7.4	12
36	Sensor Modeling of Laser Scanners for Automated Scan Planning on Construction Jobsites 2012 ,		11
35	Reliable Bridge Scour Simulation Using Eulerian Two-Phase Flow Theory. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04016009	5	10
34	Augmenting a deep-learning algorithm with canal inspection knowledge for reliable water leak detection from multispectral satellite images. <i>Advanced Engineering Informatics</i> , 2020 , 46, 101161	7.4	10
33	Toward Automated Spatial Change Analysis of MEP Components Using 3D Point Clouds and As-Designed BIM Models 2014 ,		9
32	Computationally efficient change analysis of piece-wise cylindrical building elements for proactive project control. <i>Automation in Construction</i> , 2017 , 81, 300-312	9.6	7
31	A Spatial-Context-Based Approach for Automated Spatial Change Analysis of Piece-Wise Linear Building Elements. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016 , 31, 65-80	8.4	7
30	Grand Challenges in Data and Information Visualization for the Architecture, Engineering, Construction, and Facility Management Industries 2013 ,		7
29	Characterization of three algorithms for detecting surface flatness defects from dense point clouds 2009 ,		7
28	Identification of Bridge Scour Depth by Tracing Dynamic Behaviors of Superstructures. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 1316-1327	1.9	6
27	A multi-level 3D data registration approach for supporting reliable spatial change classification of single-pier bridges. <i>Advanced Engineering Informatics</i> , 2018 , 38, 187-202	7.4	6
26	Adaptive 3D Imaging and Tolerance Analysis of Prefabricated Components for Accelerated Construction. <i>Procedia Engineering</i> , 2015 , 118, 1060-1067		6
25	MER Spirit rover localization: Comparison of ground image and orbital image based methods and science applications. <i>Journal of Geophysical Research</i> , 2011 , 116,		6
24	Semi-Automated As-Built Modeling of Light Rail System Guide Beams 2010 ,		6
23	Extracting Surveying Goals from Point Clouds to Support Construction and Infrastructure Inspection 2009 ,		6
22	Computational Simulation of Live-Bed Bridge Scour Considering Suspended Sediment Loads. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017040	5	5
21	Automated Monitoring of Pilot Tube Microtunneling Installations through Pattern Recognition in Time-Series Data of Hydraulic Pressure 2013 ,		5

20	Data Quality-oriented 3D Laser Scan Planning 2014 ,		5
19	Machine learning using synthetic images for detecting dust emissions on construction sites. <i>Smart and Sustainable Built Environment</i> , 2021 , ahead-of-print,	3	5
18	Geometry-Based Optimized Point Cloud Compression Methodology for Construction and Infrastructure Management 2017 ,		3
17	Simulation for characterizing a progressive registration algorithm aligning as-built 3D point clouds against as-designed models 2013 ,		3
16	Surveying, Geomatics, and 3D Reconstruction 2020 , 13-64		3
15	Predictive nuclear power plant outage control through computer vision and data-driven simulation. <i>Progress in Nuclear Energy</i> , 2020 , 127, 103448	2.3	3
14	Modeling and simulating the impact of forgetting and communication errors on delays in civil infrastructure shutdowns. <i>Frontiers of Engineering Management</i> , 2021 , 8, 109-121	2.7	3
13	Pose guided anchoring for detecting proper use of personal protective equipment. <i>Automation in Construction</i> , 2021 , 130, 103828	9.6	3
12	Frequency Analysis of Bridge Condition Explanatory Data Items for Customized Data Collection and Bridge Management 2012 ,		2
11	Bayesian-entropy Network for Information Fusion and Reliability Assessment of National Airspace Systems. <i>Proceedings of the Annual Conference of the Prognostics and Health Management Society Prognostics and Health Management Society Conference</i> , 2018 , 10,	1.3	2
10	Integrated Analysis of Aerial and Terrestrial Imagery Data for Efficient and Effective Water Loss Mapping of a Canal System 2017 ,		1
9	Automated Productivity Analysis of Pilot Tube Microtunneling Installations through Workflow Recognition in the Time-Series Data of Hydraulic Pressure 2014 ,		1
8	Automating and Optimizing Spatial Data Processing Workflows for Civil Infrastructure Inspection 2012 ,		1
7	Human reliability for safe and efficient civil infrastructure operation and maintenance [A review]. <i>Developments in the Built Environment</i> , 2020 , 4, 100028	5.1	1
6	Automatic Correlated Vibration Pattern Analysis for a Rapid Remote Scour Assessment of Civil Infrastructure 2016 ,		1
5	Characterizing Point Cloud Data Density for Spatial Change-Based Maintenance Planning of Civil Infrastructure Systems 2018 ,		1
4	Simulation-Based Optimization of Communication Protocols for Reducing Delays during Nuclear Power Plant Outages 2018 ,		1
3	A Multisensor Integration Approach toward Astronaut Navigation for Landed Lunar Missions. <i>Journal of Field Robotics</i> , 2014 , 31, 245-262	6.7	0

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| 2 | Water Chlorophyll Estimation in an Urban Canal System With High-Resolution Remote Sensing Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5 | 4.1 |
| 1 | Automatic Communication Error Detection Using Speech Recognition and Linguistic Analysis for Proactive Control of Loss of Separation. <i>Transportation Research Record</i> ,036119812098300 | 1.7 |