

Hubo Cai

List of Publications by Year in Descending Order

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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.

49
papers

630
citations

16
h-index

23
g-index

51
ext. papers

863
ext. citations

5.2
avg, IF

4.97
L-index

#	Paper	IF	Citations
49	A Framework for EEG-Based Ubiquitous Hazard Identification and Proactive Safety Management 2022 ,		1
48	Impact of COVID-19 on the US Construction Industry as Revealed in the Purdue Index for Construction. <i>Journal of Management in Engineering - ASCE</i> , 2022 , 38,	5.2	2
47	Multi-class classification of construction hazards via cognitive states assessment using wearable EEG. <i>Advanced Engineering Informatics</i> , 2022 , 53, 101646	7.3	0
46	Verification and Validation Framework for Purdue Index for Construction. <i>Journal of Management in Engineering - ASCE</i> , 2021 , 37, 04020090	5.2	3
45	Domain Ontology for Utility Infrastructure: Coupling the Semantics of CityGML Utility Network ADE and Domain Glossaries. <i>Journal of Computing in Civil Engineering</i> , 2021 , 35, 04021011	4.9	1
44	Ontology and rule-based natural language processing approach for interpreting textual regulations on underground utility infrastructure. <i>Advanced Engineering Informatics</i> , 2021 , 48, 101288	7.3	4
43	Identification of Metrics for the Purdue Index for Construction Using Latent Dirichlet Allocation. <i>Journal of Management in Engineering - ASCE</i> , 2021 , 37, 04021067	5.2	1
42	Classification of construction hazard-related perceptions using: Wearable electroencephalogram and virtual reality. <i>Automation in Construction</i> , 2021 , 132, 103975	9.4	5
41	Semantic approach to compliance checking of underground utilities. <i>Automation in Construction</i> , 2020 , 109, 103006	9.4	27
40	Real option-based optimization for financial incentive allocation in infrastructure projects under public-private partnerships. <i>Frontiers of Engineering Management</i> , 2020 , 7, 413-425	2.5	4
39	Risk assessment and management via multi-source information fusion for undersea tunnel construction. <i>Automation in Construction</i> , 2020 , 111, 103050	9.4	29
38	Automating Utility Permitting within Highway Right-of-Way via a Generic UML/OCL Model and Natural Language Processing. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020135	4.1	4
37	Robust Hybrid Approach of Vision-Based Tracking and Radio-Based Identification and Localization for 3D Tracking of Multiple Construction Workers. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04020021	4.9	9
36	Spatial reasoning mechanism to enable automated adaptive trajectory planning in ground penetrating radar survey. <i>Automation in Construction</i> , 2020 , 114, 103157	9.4	2
35	Infrastructure privatization analysis: A public-private duopoly game. <i>Transport Policy</i> , 2019 , 83, 80-87	5.6	2
34	Modeling 3D Spatial Constraints to Support Utility Compliance Checking 2019 ,		3
33	Government contracting with monopoly in infrastructure provision: Regulation or deregulation?. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2019 , 122, 506-523	8.8	11

32	Ontology-Based Knowledge Management System for Digital Highway Construction Inspection. <i>Transportation Research Record</i> , 2019 , 2673, 52-65	1.6	9
31	Empirical Analysis of Capital Structure Determinants in Infrastructure Projects under Public-Private Partnerships. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019032	4.1	10
30	Two-step long short-term memory method for identifying construction activities through positional and attentional cues. <i>Automation in Construction</i> , 2019 , 106, 102886	9.4	22
29	Spatial Autocorrelation in Soil Compaction and Its Impact on Earthwork Acceptance Testing. <i>Transportation Research Record</i> , 2019 , 2673, 332-342	1.6	5
28	GPR Signature Detection and Decomposition for Mapping Buried Utilities with Complex Spatial Configuration. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 04018026	4.9	22
27	Bringing Information to the Field: Automated Photo Registration and 4D BIM. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 04017084	4.9	16
26	An Ontology Approach to Utility Knowledge Representation 2018 ,		1
25	Camera marker networks for articulated machine pose estimation. <i>Automation in Construction</i> , 2018 , 96, 148-160	9.4	16
24	Erratum for Vision-Based Excavator Detection and Tracking Using Hybrid Kinematic Shapes and Key Nodes by Chenxi Yuan, Shuai Li, and Hubo Cai. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 08217001	4.9	
23	A field theory based model for identifying the effect of organizational structure on the formation of organizational culture in construction projects. <i>KSCE Journal of Civil Engineering</i> , 2017 , 21, 45-53	1.9	6
22	WBS-based dynamic multi-dimensional BIM database for total construction as-built documentation. <i>Automation in Construction</i> , 2017 , 77, 15-23	9.4	56
21	Infrastructure financing with project bond and credit default swap under public-private partnerships. <i>International Journal of Project Management</i> , 2017 , 35, 406-419	7.4	31
20	Correlating Intelligent Compaction Data to In Situ Soil Compaction Quality Measurements. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 04017038	4.1	17
19	Automatic Pavement-Crack Detection and Segmentation Based on Steerable Matched Filtering and an Active Contour Model. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017045	4.9	42
18	Government incentive impacts on private investment behaviors under demand uncertainty. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017 , 101, 115-129	8.8	32
17	Integrating Natural Language Processing and Spatial Reasoning for Utility Compliance Checking. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04016074	4.1	34
16	Enabling Construction 4D Topological Analysis for Effective Construction Planning. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04014123	4.9	1
15	Integrated Processing of Image and GPR Data for Automated Pothole Detection. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04016015	4.9	35

14	Uncertainty-aware geospatial system for mapping and visualizing underground utilities. <i>Automation in Construction</i> , 2015 , 53, 105-119	9.4	43
13	Life-Cycle CostBased Decision Framework for Failed Portland Cement Concrete Pavement Materials in Indiana. <i>Transportation Research Record</i> , 2015 , 2524, 33-41	1.6	
12	Life Cycle Approach to Construction Workspace Modeling and Planning. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014 , 140, 04014019	4.1	15
11	Integrating GIS and Microscopic Traffic Simulation to Analyze Impacts of Transportation Infrastructure Construction. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 478-487	4.9	3
10	GIS-based dynamic construction site material layout evaluation for building renovation projects. <i>Automation in Construction</i> , 2012 , 27, 40-49	9.4	36
9	Towards Sensor-Based Health Monitoring Systems for Bridge Decks: A Full-Depth Precast Deck Panels Case Study. <i>Advances in Civil Engineering</i> , 2010 , 2010, 1-14	1.2	4
8	Quantifying Time and User Cost Savings for Rapid Bridge Construction Technique. <i>Transportation Research Record</i> , 2010 , 2151, 11-20	1.6	5
7	Approach to Determine Extent and Depth of Highway Flooding. <i>Journal of Infrastructure Systems</i> , 2007 , 13, 157-167	2.8	16
6	Geographic Information Systems/National Elevation Data Route Mileage Verification. <i>Journal of Surveying Engineering, - ASCE</i> , 2006 , 132, 40-49	1.3	7
5	Accuracy Assessment of Interstate Highway Length Using Digital Elevation Model. <i>Journal of Surveying Engineering, - ASCE</i> , 2004 , 130, 142-150	1.3	7
4	Assessment of the Computing Component of Civil Engineering Education. <i>Journal of Computing in Civil Engineering</i> , 2004 , 18, 187-195	4.9	12
3	Transportation Distance Measurement Data Quality. <i>Journal of Computing in Civil Engineering</i> , 2003 , 17, 75-87	4.9	12
2	Automatic Generation of Customized Checklists for Digital Construction Inspection. <i>Transportation Research Record</i> ,036119812199582	1.6	1
1	Extraction of Construction Quality Requirements from Textual Specifications via Natural Language Processing. <i>Transportation Research Record</i> ,036119812110013	1.6	1