

Lieyun Ding

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.

87
papers

2,796
citations

31
h-index

50
g-index

98
ext. papers

3,868
ext. citations

6.8
avg, IF

6.03
L-index

#	Paper	IF	Citations
87	A deep hybrid learning model to detect unsafe behavior: Integrating convolution neural networks and long short-term memory. <i>Automation in Construction</i> , 2018 , 86, 118-124	9.6	192
86	Detecting non-hardhat-use by a deep learning method from far-field surveillance videos. <i>Automation in Construction</i> , 2018 , 85, 1-9	9.6	181
85	Building Information Modeling (BIM) application framework: The process of expanding from 3D to computable nD. <i>Automation in Construction</i> , 2014 , 46, 82-93	9.6	170
84	Falls from heights: A computer vision-based approach for safety harness detection. <i>Automation in Construction</i> , 2018 , 91, 53-61	9.6	150
83	Automated detection of workers and heavy equipment on construction sites: A convolutional neural network approach. <i>Advanced Engineering Informatics</i> , 2018 , 37, 139-149	7.4	129
82	Digital reproduction of historical building ornamental components: From 3D scanning to 3D printing. <i>Automation in Construction</i> , 2017 , 76, 85-96	9.6	73
81	A deep learning-based method for detecting non-certified work on construction sites. <i>Advanced Engineering Informatics</i> , 2018 , 35, 56-68	7.4	73
80	Improved Fuzzy Bayesian Network-Based Risk Analysis With Interval-Valued Fuzzy Sets and D _S Evidence Theory. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 2063-2077	8.3	69
79	An improved Dempster-Shafer approach to construction safety risk perception. <i>Knowledge-Based Systems</i> , 2017 , 132, 30-46	7.3	66
78	Decision support analysis for safety control in complex project environments based on Bayesian Networks. <i>Expert Systems With Applications</i> , 2013 , 40, 4273-4282	7.8	64
77	Computer vision for behaviour-based safety in construction: A review and future directions. <i>Advanced Engineering Informatics</i> , 2020 , 43, 100980	7.4	62
76	BIM-BASED RISK IDENTIFICATION SYSTEM IN TUNNEL CONSTRUCTION. <i>Journal of Civil Engineering and Management</i> , 2016 , 22, 529-539	3	61
75	Computer vision aided inspection on falling prevention measures for steeplejacks in an aerial environment. <i>Automation in Construction</i> , 2018 , 93, 148-164	9.6	61
74	Construction quality information management with blockchains. <i>Automation in Construction</i> , 2020 , 120, 103373	9.6	56
73	Characterizing time series of near-miss accidents in metro construction via complex network theory. <i>Safety Science</i> , 2017 , 98, 145-158	5.8	54
72	Predicting Safety Risks in Deep Foundation Pits in Subway Infrastructure Projects: Support Vector Machine Approach. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017052	5	53
71	Safety management in tunnel construction: Case study of Wuhan metro construction in China. <i>Safety Science</i> , 2014 , 62, 8-15	5.8	52

70	A novel model for risk assessment of adjacent buildings in tunneling environments. <i>Building and Environment</i> , 2013 , 65, 185-194	6.5	49
69	Computer vision applications in construction safety assurance. <i>Automation in Construction</i> , 2020 , 110, 103013	9.6	44
68	Cyber-physical-system-based safety monitoring for blind hoisting with the internet of things: A case study. <i>Automation in Construction</i> , 2019 , 97, 138-150	9.6	42
67	Deep learning and network analysis: Classifying and visualizing accident narratives in construction. <i>Automation in Construction</i> , 2020 , 113, 103089	9.6	40
66	Applicability of 4D modeling for resource allocation in mega liquefied natural gas plant construction. <i>Automation in Construction</i> , 2015 , 50, 50-63	9.6	39
65	Dynamic prediction for attitude and position in shield tunneling: A deep learning method. <i>Automation in Construction</i> , 2019 , 105, 102840	9.6	38
64	Sustainable performance of just-in-time (JIT) management in time-dependent batch delivery scheduling of precast construction. <i>Journal of Cleaner Production</i> , 2018 , 193, 684-701	10.3	36
63	Mapping computer vision research in construction: Developments, knowledge gaps and implications for research. <i>Automation in Construction</i> , 2019 , 107, 102919	9.6	35
62	A review of metro construction in China: Organization, market, cost, safety and schedule. <i>Frontiers of Engineering Management</i> , 2017 , 4, 4	2.7	35
61	Hyperledger fabric-based consortium blockchain for construction quality information management. <i>Frontiers of Engineering Management</i> , 2020 , 7, 512-527	2.7	34
60	Integrating BIM with building performance analysis in project life-cycle. <i>Automation in Construction</i> , 2019 , 106, 102861	9.6	32
59	A Framework for BIM-Enabled Life-Cycle Information Management of Construction Project. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 126	1.4	32
58	Knowledge graph for identifying hazards on construction sites: Integrating computer vision with ontology. <i>Automation in Construction</i> , 2020 , 119, 103310	9.6	31
57	An IFC-inspection process model for infrastructure projects: Enabling real-time quality monitoring and control. <i>Automation in Construction</i> , 2017 , 84, 96-110	9.6	31
56	Development of a BIM-based Automated Construction System. <i>Procedia Engineering</i> , 2014 , 85, 123-131		31
55	Feedforward Analysis for Shield-Ground System. <i>Journal of Computing in Civil Engineering</i> , 2013 , 27, 231-242		29
54	Volume-forming 3D concrete printing using a variable-size square nozzle. <i>Automation in Construction</i> , 2019 , 104, 95-106	9.6	28
53	Non-linear description of ground settlement over twin tunnels in soil. <i>Tunnelling and Underground Space Technology</i> , 2014 , 42, 144-151	5.7	26

52	Formulating project-level building information modeling evaluation framework from the perspectives of organizations: A review. <i>Automation in Construction</i> , 2017 , 81, 44-55	9.6	25
51	Modeling tunnel construction risk dynamics: Addressing the production versus protection problem. <i>Safety Science</i> , 2016 , 87, 101-115	5.8	25
50	Optimal single-machine batch scheduling for the manufacture, transportation and JIT assembly of precast construction with changeover costs within due dates. <i>Automation in Construction</i> , 2017 , 81, 34-43	9.6	23
49	Wavelet Analysis for tunneling-induced ground settlement based on a stochastic model. <i>Tunnelling and Underground Space Technology</i> , 2011 , 26, 619-628	5.7	23
48	UAV-based 3D reconstruction for hoist site mapping and layout planning in petrochemical construction. <i>Automation in Construction</i> , 2020 , 113, 103137	9.6	22
47	Machine learning in construction: From shallow to deep learning. <i>Developments in the Built Environment</i> , 2021 , 6, 100045	5.1	22
46	Utilizing IFC for shield segment assembly in underground tunneling. <i>Automation in Construction</i> , 2018 , 93, 178-191	9.6	22
45	Knowledge dynamics-integrated map as a blueprint for system development: Applications to safety risk management in Wuhan metro project. <i>Automation in Construction</i> , 2018 , 93, 112-122	9.6	22
44	BIM-based task-level planning for robotic brick assembly through image-based 3D modeling. <i>Advanced Engineering Informatics</i> , 2020 , 43, 100993	7.4	21
43	Hybrid Support Vector Machine Optimization Model for Prediction of Energy Consumption of Cutter Head Drives in Shield Tunneling. <i>Journal of Computing in Civil Engineering</i> , 2019 , 33, 04019019	5	20
42	Visibility graph analysis on time series of shield tunneling parameters based on complex network theory. <i>Tunnelling and Underground Space Technology</i> , 2019 , 89, 10-24	5.7	18
41	Combining association rules mining with complex networks to monitor coupled risks. <i>Reliability Engineering and System Safety</i> , 2019 , 186, 194-208	6.3	18
40	Time-statistical laws of workers' unsafe behavior in the construction industry: A case study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 515, 419-429	3.3	18
39	Optimization strategies to eliminate interface conflicts in complex supply chains of construction projects. <i>Journal of Civil Engineering and Management</i> , 2017 , 23, 712-726	3	17
38	Cyber physical system for safety management in smart construction site. <i>Engineering, Construction and Architectural Management</i> , 2020 , 28, 788-808	3.1	17
37	Automation and Robotics in Construction and Civil Engineering. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 79, 347-350	2.9	16
36	Application of Cloud Storage on BIM Life-Cycle Management. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 129	1.4	16
35	Knowledge representation using non-parametric Bayesian networks for tunneling risk analysis. <i>Reliability Engineering and System Safety</i> , 2019 , 191, 106529	6.3	15

34	Topological mapping and assessment of multiple settlement time series in deep excavation: A complex network perspective. <i>Advanced Engineering Informatics</i> , 2018 , 36, 1-19	7.4	15
33	Unsupervised spectral clustering for shield tunneling machine monitoring data with complex network theory. <i>Automation in Construction</i> , 2019 , 107, 102924	9.6	14
32	Highway Planning and Design in the Qinghai-Tibet Plateau of China: A Cost-Safety Balance Perspective. <i>Engineering</i> , 2019 , 5, 337-349	9.7	12
31	Global sensitivity analysis of influential parameters for excavation stability of metro tunnel. <i>Automation in Construction</i> , 2020 , 113, 103080	9.6	12
30	Wavelet prediction method for ground deformation induced by tunneling. <i>Tunnelling and Underground Space Technology</i> , 2014 , 41, 137-151	5.7	12
29	Effects of long-term household air pollution exposure from solid fuel use on depression: Evidence from national longitudinal surveys from 2011 to 2018. <i>Environmental Pollution</i> , 2021 , 283, 117350	9.3	12
28	Planning of Deep Foundation Construction Technical Specifications Using Improved Case-Based Reasoning with Weighted k-Nearest Neighbors. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017029	5.029	11
27	Houston, we have a problem! Understanding the tensions between quality and safety in construction. <i>Production Planning and Control</i> , 2019 , 30, 1354-1365	4.3	11
26	Tiny noise, big mistakes: adversarial perturbations induce errors in brain-computer interface spellers. <i>National Science Review</i> , 2021 , 8, nwaa233	10.8	11
25	Hybrid Recommendation Approach for Behavior Modification in the Chinese Construction Industry. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019035	4.2	10
24	Inspecting manufacturing precision of 3D printed concrete parts based on geometric dimensioning and tolerancing. <i>Automation in Construction</i> , 2020 , 117, 103233	9.6	10
23	On spectral representation method and Karhunen-Loève expansion in modelling construction material properties. <i>Archives of Civil and Mechanical Engineering</i> , 2018 , 18, 768-783	3.4	10
22	Proactive struck-by risk detection with movement patterns and randomness. <i>Automation in Construction</i> , 2018 , 91, 246-255	9.6	9
21	In-situ construction method for lunar habitation: Chinese Super Mason. <i>Automation in Construction</i> , 2019 , 104, 66-79	9.6	8
20	Time-dependent resilience analysis of a road network in an extreme environment. <i>Transportation Research, Part D: Transport and Environment</i> , 2020 , 85, 102395	6.4	8
19	Near real-time circular tunnel shield segment assembly quality inspection using point cloud data: A case study. <i>Tunnelling and Underground Space Technology</i> , 2019 , 91, 102998	5.7	7
18	Human dynamics in near-miss accidents resulting from unsafe behavior of construction workers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 530, 121495	3.3	7
17	A Dynamic Decision Approach for Risk Analysis in Complex Projects. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 79, 591-601	2.9	7

16	Three-dimensional (3D) reconstruction of structures and landscapes: A new point-and-line fusion method. <i>Advanced Engineering Informatics</i> , 2019 , 42, 100961	7.4	7
15	Quantifying the evolution of settlement risk for surrounding environments in underground construction via complex network analysis. <i>Tunnelling and Underground Space Technology</i> , 2020 , 103, 103490	5.7	6
14	Preparation of autoclave concrete from basaltic lunar regolith simulant: Effect of mixture and manufacture process. <i>Construction and Building Materials</i> , 2019 , 207, 373-386	6.7	5
13	Risk-informed knowledge-based design for road infrastructure in an extreme environment. <i>Knowledge-Based Systems</i> , 2021 , 216, 106741	7.3	4
12	Automated bughole detection and quality performance assessment of concrete using image processing and deep convolutional neural networks. <i>Construction and Building Materials</i> , 2021 , 281, 122576	6.7	4
11	Maintenance Strategy of Multi-equipment Network Systems Based on Topology Vulnerability Analysis. <i>Procedia Engineering</i> , 2016 , 164, 127-134		4
10	The Influence of the Built Environment on People's Mental Health: An Empirical Classification of Causal Factors. <i>Sustainable Cities and Society</i> , 2021 , 74, 103185	10.1	4
9	Design and automated assembly of Planetary LEGO Brick for lunar in-situ construction. <i>Automation in Construction</i> , 2020 , 118, 103282	9.6	3
8	Risk analysis and management for highway operations safety using a covariate-balanced determinant detector. <i>Accident Analysis and Prevention</i> , 2019 , 133, 105290	6.1	2
7	Risk Identification Expert System for Metro Construction Based on BIM 2013 ,		2
6	Simulation of the effects of different skill learning pathways in heterogeneous construction crews. <i>Journal of Industrial and Management Optimization</i> , 2015 , 11, 381-397	2	2
5	Digital twin: Stability analysis for tower crane hoisting safety with a scale model. <i>Automation in Construction</i> , 2022 , 138, 104257	9.6	2
4	Empirical Study on Impact of Information Technology on Construction Firm Performance 2008 ,		1
3	The Dynamic Coupling Model of the Coordinative Development Between Regional Resource-Environment and Society-Economy 2008 ,		1
2	Sintering of HUST-1 lunar regolith simulant. <i>Construction and Building Materials</i> , 2022 , 324, 126655	6.7	0
1	Dynamic Simulation of the Probable Propagation of a Disaster in an Engineering System Using a Scenario-Based Hybrid Network Model. <i>IEEE Transactions on Engineering Management</i> , 2022 , 1-14	2.6	