Xiaochun Luo

List of Publications by Year
in descending order

47 papers	2,626 citations	201385 27 h-index	223531 46 g-index
47 all docs	47 docs citations	47 times ranked	1684 citing authors

#	Article	IF	Citations
1	Influence of mesoscopic pore characteristics on the splitting-tensile strength of cellular concrete through deep-learning based image segmentation. Construction and Building Materials, 2022, 315, 125335.	3.2	11
2	A survey on teaching workplace skills to construction robots. Expert Systems With Applications, 2022, 205, 117658.	4.4	11
3	Can mixed reality enhance safety communication on construction sites? An industry perspective. Safety Science, 2021, 133, 105009.	2.6	32
4	Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. IEEE Internet of Things Journal, 2021, 8, 1740-1748.	5.5	8
5	Investigating the Critical Factors of Professionals' BIM Adoption Behavior Based on the Theory of Planned Behavior. International Journal of Environmental Research and Public Health, 2021, 18, 3022.	1.2	11
6	Density-based spatial clustering and discriminative modeling for automatic recognition and localization of cast-in hoist rings. Automation in Construction, 2021, 125, 103658.	4.8	1
7	Manifesting construction activity scenes via image captioning. Automation in Construction, 2020, 119, 103334.	4.8	40
8	A Building Project-Based Industrialized Construction Maturity Model Involving Organizational Enablers: A Multi-Case Study in China. Sustainability, 2020, 12, 4029.	1.6	11
9	Physical exertion modeling for construction tasks using combined cardiorespiratory and thermoregulatory measures. Automation in Construction, 2020, 112, 103079.	4.8	46
10	Combining deep features and activity context to improve recognition of activities of workers in groups. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 965-978.	6.3	34
11	A sematic and prior-knowledge-aided monocular localization method for construction-related entities. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 979-996.	6.3	29
12	Exponential synchronisation of linearly coupled reaction-diffusion neural networks with discrete and infinite distributed delays. International Journal of Systems Science, 2020, 51, 1174-1187.	3.7	4
13	PREDICTING BEHAVIOURAL RESISTANCE TO BIM IMPLEMENTATION IN CONSTRUCTION PROJECTS: AN EMPIRICAL STUDY INTEGRATING TECHNOLOGY ACCEPTANCE MODEL AND EQUITY THEORY. Journal of Civil Engineering and Management, 2020, 26, 651-665.	1.9	21
14	Modeling Dynamics of Project-Based Collaborative Networks for BIM Implementation in the Construction Industry: Empirical Study in Hong Kong. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	17
15	Measuring rock surface strength based on spectrograms with deep convolutional networks. Computers and Geosciences, 2019, 133, 104312.	2.0	16
16	Pre-service fatigue screening for construction workers through wearable EEG-based signal spectral analysis. Automation in Construction, 2019, 106, 102851.	4.8	57
17	An automatic and non-invasive physical fatigue assessment method for construction workers. Automation in Construction, 2019, 103, 1-12.	4.8	109
18	Integration of BIM and GIS in sustainable built environment: A review and bibliometric analysis. Automation in Construction, 2019, 103, 41-52.	4.8	199

#	Article	IF	Citations
19	Vision-based detection and visualization of dynamic workspaces. Automation in Construction, 2019, 104, 1-13.	4.8	61
20	Joint-Level Vision-Based Ergonomic Assessment Tool for Construction Workers. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	51
21	Developing a green building evaluation standard for interior decoration: A case study of China. Building and Environment, 2019, 152, 50-58.	3.0	49
22	Capturing and Understanding Workers' Activities in Far-Field Surveillance Videos with Deep Action Recognition and Bayesian Nonparametric Learning. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 333-351.	6.3	78
23	Relationship Network Structure and Organizational Competitiveness: Evidence from BIM Implementation Practices in the Construction Industry. Journal of Management in Engineering - ASCE, 2018, 34, .	2.6	49
24	Using Switching State-Space Model to Identify Work States Based on Movement Data. , 2018, , 1547-1558.		0
25	Recognizing Diverse Construction Activities in Site Images via Relevance Networks of Construction-Related Objects Detected by Convolutional Neural Networks. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	116
26	A deep learning-based method for detecting non-certified work on construction sites. Advanced Engineering Informatics, 2018, 35, 56-68.	4.0	109
27	Proactive struck-by risk detection with movement patterns and randomness. Automation in Construction, 2018, 91, 246-255.	4.8	18
28	Detecting non-hardhat-use by a deep learning method from far-field surveillance videos. Automation in Construction, 2018, 85, 1-9.	4.8	328
29	Automatic Pixel-Level Crack Detection and Measurement Using Fully Convolutional Network. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 1090-1109.	6.3	470
30	Computer vision aided inspection on falling prevention measures for steeplejacks in an aerial environment. Automation in Construction, 2018, 93, 148-164.	4.8	104
31	Towards efficient and objective work sampling: Recognizing workers' activities in site surveillance videos with two-stream convolutional networks. Automation in Construction, 2018, 94, 360-370.	4.8	90
32	Hierarchical Bayesian Model of Worker Response to Proximity Warnings of Construction Safety Hazards: Toward Constant Review of Safety Risk Control Measures. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	17
33	Dynamics of Project-Based Collaborative Networks for BIM Implementation: Analysis Based on Stochastic Actor-Oriented Models. Journal of Management in Engineering - ASCE, 2017, 33, .	2.6	45
34	Optimal single-machine batch scheduling for the manufacture, transportation and JIT assembly of precast construction with changeover costs within due dates. Automation in Construction, 2017, 81, 34-43.	4.8	44
35	Investigation of the causality patterns of non-helmet use behavior of construction workers. Automation in Construction, 2017, 80, 95-103.	4.8	51
36	Location-based measurement and visualization for interdependence network on construction sites. Advanced Engineering Informatics, 2017, 34, 36-45.	4.0	9

#	Article	IF	Citations
37	Motion-based analysis for construction workers using biomechanical methods. Frontiers of Engineering Management, 2017, 4, 84.	3.3	9
38	A field experiment of workers' responses to proximity warnings of static safety hazards on construction sites. Safety Science, 2016, 84, 216-224.	2.6	34
39	Quantifying Hazard Exposure Using Real-Time Location Data of Construction Workforce and Equipment. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	29
40	Chirp-spread-spectrum-based real time location system for construction safety management: A case study. Automation in Construction, 2015, 55, 58-65.	4.8	44
41	Virtual Prototyping for Construction Site Co2 Emissions and Hazard Detection. International Journal of Advanced Robotic Systems, 2014, 11, 130.	1.3	4
42	Toward low-carbon construction processes: the visualisation of predicted emission via virtual prototyping technology. Automation in Construction, 2013, 33, 72-78.	4.8	88
43	Comparative Study of Traditional and Group Decision Support–Supported Value Management Workshops. Journal of Management in Engineering - ASCE, 2013, 29, 345-354.	2.6	8
44	A group decision support system for implementing value management methodology in construction briefing. International Journal of Project Management, 2011, 29, 1003-1017.	2.7	31
45	A case-based reasoning system for using functional performance specification in the briefing of building projects. Automation in Construction, 2010, 19, 725-733.	4.8	20
46	Group decision support systems in value management. Construction Management and Economics, 2010, 28, 827-838.	1.8	9
47	A computer-aided FPS-oriented approach for construction briefing. Tsinghua Science and Technology, 2008, 13, 292-297.	4.1	4