

Xiaochun Luo

List of Publications by Year in descending order

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Version: 2024-02-01

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	Automatic Pixel-Level Crack Detection and Measurement Using Fully Convolutional Network. Computer-Aided Civil and Infrastructure Engineering, 2018, 33, 1090-1109.	6.3	470
2	Detecting non-hardhat-use by a deep learning method from far-field surveillance videos. Automation in Construction, 2018, 85, 1-9.	4.8	328
3	Integration of BIM and GIS in sustainable built environment: A review and bibliometric analysis. Automation in Construction, 2019, 103, 41-52.	4.8	199
4	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
5	A deep learning-based method for detecting non-certified work on construction sites. Advanced Engineering Informatics, 2018, 35, 56-68.	4.0	109
6	An automatic and non-invasive physical fatigue assessment method for construction workers. Automation in Construction, 2019, 103, 1-12.	4.8	109
7	Computer vision aided inspection on falling prevention measures for steeplejacks in an aerial environment. Automation in Construction, 2018, 93, 148-164.	4.8	104
8	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
9	Toward low-carbon construction processes: the visualisation of predicted emission via virtual prototyping technology. Automation in Construction, 2013, 33, 72-78.	4.8	88
10	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
11	Vision-based detection and visualization of dynamic workspaces. Automation in Construction, 2019, 104, 1-13.	4.8	61
12	Pre-service fatigue screening for construction workers through wearable EEG-based signal spectral analysis. Automation in Construction, 2019, 106, 102851.	4.8	57
13	Investigation of the causality patterns of non-helmet use behavior of construction workers. Automation in Construction, 2017, 80, 95-103.	4.8	51
14	Joint-Level Vision-Based Ergonomic Assessment Tool for Construction Workers. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	51
15	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
16	Developing a green building evaluation standard for interior decoration: A case study of China. Building and Environment, 2019, 152, 50-58.	3.0	49
17	Physical exertion modeling for construction tasks using combined cardiorespiratory and thermoregulatory measures. Automation in Construction, 2020, 112, 103079.	4.8	46
18	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

#	ARTICLE	IF	CITATIONS
19	Chirp-spread-spectrum-based real time location system for construction safety management: A case study. <i>Automation in Construction</i> , 2015, 55, 58-65.	4.8	44
20	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.	4.8	44
21	Manifesting construction activity scenes via image captioning. <i>Automation in Construction</i> , 2020, 119, 103334.	4.8	40
22	A field experiment of workers's responses to proximity warnings of static safety hazards on construction sites. <i>Safety Science</i> , 2016, 84, 216-224.	2.6	34
23	Combining deep features and activity context to improve recognition of activities of workers in groups. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 965-978.	6.3	34
24	Can mixed reality enhance safety communication on construction sites? An industry perspective. <i>Safety Science</i> , 2021, 133, 105009.	2.6	32
25	A group decision support system for implementing value management methodology in construction briefing. <i>International Journal of Project Management</i> , 2011, 29, 1003-1017.	2.7	31
26	Quantifying Hazard Exposure Using Real-Time Location Data of Construction Workforce and Equipment. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016, 142, .	2.0	29
27	A semantic and prior-knowledge-aided monocular localization method for construction-related entities. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 979-996.	6.3	29
28	PREDICTING BEHAVIOURAL RESISTANCE TO BIM IMPLEMENTATION IN CONSTRUCTION PROJECTS: AN EMPIRICAL STUDY INTEGRATING TECHNOLOGY ACCEPTANCE MODEL AND EQUITY THEORY. <i>Journal of Civil Engineering and Management</i> , 2020, 26, 651-665.	1.9	21
29	A case-based reasoning system for using functional performance specification in the briefing of building projects. <i>Automation in Construction</i> , 2010, 19, 725-733.	4.8	20
30	Proactive struck-by risk detection with movement patterns and randomness. <i>Automation in Construction</i> , 2018, 91, 246-255.	4.8	18
31	Hierarchical Bayesian Model of Worker Response to Proximity Warnings of Construction Safety Hazards: Toward Constant Review of Safety Risk Control Measures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, .	2.0	17
32	Modeling Dynamics of Project-Based Collaborative Networks for BIM Implementation in the Construction Industry: Empirical Study in Hong Kong. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	2.0	17
33	Measuring rock surface strength based on spectrograms with deep convolutional networks. <i>Computers and Geosciences</i> , 2019, 133, 104312.	2.0	16
34	A Building Project-Based Industrialized Construction Maturity Model Involving Organizational Enablers: A Multi-Case Study in China. <i>Sustainability</i> , 2020, 12, 4029.	1.6	11
35	Investigating the Critical Factors of Professionals's BIM Adoption Behavior Based on the Theory of Planned Behavior. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3022.	1.2	11
36	Influence of mesoscopic pore characteristics on the splitting-tensile strength of cellular concrete through deep-learning based image segmentation. <i>Construction and Building Materials</i> , 2022, 315, 125335.	3.2	11

#	ARTICLE	IF	CITATIONS
37	A survey on teaching workplace skills to construction robots. <i>Expert Systems With Applications</i> , 2022, 205, 117658.	4.4	11
38	Group decision support systems in value management. <i>Construction Management and Economics</i> , 2010, 28, 827-838.	1.8	9
39	Location-based measurement and visualization for interdependence network on construction sites. <i>Advanced Engineering Informatics</i> , 2017, 34, 36-45.	4.0	9
40	Motion-based analysis for construction workers using biomechanical methods. <i>Frontiers of Engineering Management</i> , 2017, 4, 84.	3.3	9
41	Comparative Study of Traditional and Group Decision Supportâ€‘Supported Value Management Workshops. <i>Journal of Management in Engineering - ASCE</i> , 2013, 29, 345-354.	2.6	8
42	Three-Dimensional Working Pose Estimation in Industrial Scenarios With Monocular Camera. <i>IEEE Internet of Things Journal</i> , 2021, 8, 1740-1748.	5.5	8
43	A computer-aided FPS-oriented approach for construction briefing. <i>Tsinghua Science and Technology</i> , 2008, 13, 292-297.	4.1	4
44	Virtual Prototyping for Construction Site Co2 Emissions and Hazard Detection. <i>International Journal of Advanced Robotic Systems</i> , 2014, 11, 130.	1.3	4
45	Exponential synchronisation of linearly coupled reaction-diffusion neural networks with discrete and infinite distributed delays. <i>International Journal of Systems Science</i> , 2020, 51, 1174-1187.	3.7	4
46	Density-based spatial clustering and discriminative modeling for automatic recognition and localization of cast-in hoist rings. <i>Automation in Construction</i> , 2021, 125, 103658.	4.8	1
47	Using Switching State-Space Model to Identify Work States Based on Movement Data. , 2018, , 1547-1558.		0