Yihai Fang

List of Publications by Year in Descending Order

28 papers	658 citations	12 h-index	25 g-index
29 ext. papers	844 ext. citations	6.5 avg, IF	4.55 L-index

#	Paper	IF	Citations
28	Real-time monitoring of construction sites: Sensors, methods, and applications. *Automation in Construction*, **2022**, 136, 104099	9.6	7
27	Predictive maintenance of pumps in civil infrastructure: State-of-the-art, challenges and future directions. *Automation in Construction*, **2021**, 134, 104049	9.6	0
26	Computer vision technologies for safety science and management in construction: A critical review and future research directions. *Safety Science*, **2021**, 135, 105130	5.8	21
25	A practicality and safety-oriented approach for path planning in crane lifts. *Automation in Construction*, **2021**, 127, 103695	9.6	5
24	Analysis of Construction Workers□Safety Behavior Based on Myers-Briggs Type Indicator Personality Test in a Bridge Construction Project. *Journal of Construction Engineering and Management - ASCE*, **2021**, 147, 04020149	4.2	5
23	Automation and optimization in crane lift planning: A critical review. *Advanced Engineering Informatics*, **2021**, 49, 101346	7.4	2
22	Cyber-Physical Systems (CPS) in Intelligent Crane Operations **2020**, 175-192		
21	CPS□Based System for Enhanced Mobile Crane Safety **2020**, 193-213		1
20	Human-in-the-Loop Simulation for Crane Lift Planning in Modular Construction On-Site Assembly **2019**,		5
19	Analysis of negative impacts of BIM-enabled information transparency on contractors' interests. *Automation in Construction*, **2019**, 103, 67-79	9.6	12
18	A Knowledge-Based Cyber-Physical System (CPS) Architecture for Informed Decision Making in Construction **2018**,		3
17	Assessment of operator's situation awareness for smart operation of mobile cranes. *Automation in Construction*, **2018**, 85, 65-75	9.6	44
16	A cyber□physical system (CPS) for planning and monitoring mobile cranes on construction sites. *Proceedings of Institution of Civil Engineers: Management, Procurement and Law*, **2018**, 171, 240-250	0.5	7
15	Performance evaluation of 3D descriptors for object recognition in construction applications. *Automation in Construction*, **2018**, 86, 44-52	9.6	33
14	Vision-based load sway monitoring to improve crane safety in blind lifts. *Journal of Structural Integrity and Maintenance*, **2018**, 3, 233-242	1.5	12
13	Use of Analytical Tools to Mitigate Mobile Crane-Related Failures **2018**,		4
12	Principal Axes Descriptor for Automated Construction-Equipment Classification from Point Clouds. *Journal of Computing in Civil Engineering*, **2017**, 31, 04016058	5	28

List of Publications

11	Mobile Asset Tracking for Dynamic 3D Crane Workspace Generation in Real Time **2017**,		2
10	Real-Time 3D Crane Workspace Update Using a Hybrid Visualization Approach. *Journal of Computing in Civil Engineering*, **2017**, 31, 04017049	5	23
9	Effectiveness Analysis from a Cognitive Perspective for a Real-Time Safety Assistance System for Mobile Crane Lifting Operations. *Journal of Construction Engineering and Management - ASCE*, **2017**, 143, 05016025	4.2	25
8	Visualization, Information Modeling, and Simulation: Grand Challenges in the Construction Industry. *Journal of Computing in Civil Engineering*, **2016**, 30, 04016035	5	72
7	Case Study of BIM and Cloud-Enabled Real-Time RFID Indoor Localization for Construction Management Applications. *Journal of Construction Engineering and Management - ASCE*, **2016**, 142, 05016003	4.2	102
6	A Point Cloud-Vision Hybrid Approach for 3D Location Tracking of Mobile Construction Assets **2016** ,		10
5	A framework for real-time pro-active safety assistance for mobile crane lifting operations. *Automation in Construction*, **2016**, 72, 367-379	9.6	67
4	Crane Load Positioning and Sway Monitoring Using an Inertial Measurement Unit **2015**,		3
3	A Multi-User Virtual 3D Training Environment to Advance Collaboration Among Crane Operator and Ground Personnel in Blind Lifts **2014**,		4
2	A Framework for Developing an As-built Virtual Environment to Advance Training of Crane Operators **2014**,		13
1	Location tracking and data visualization technology to advance construction ironworkers' education and training in safety and productivity. *Automation in Construction*, **2013**, 35, 53-68	9.6	148