Ming Lu

List of Publications by Citations

33 papers	414 citations	11 h-index	20 g-index
45 ext. papers	518 ext. citations	3.9 avg, IF	4.01 L-index

#	Paper	IF	Citations
33	Resource-Activity Critical-Path Method for Construction Planning. *Journal of Construction Engineering and Management - ASCE*, **2003**, 129, 412-420	4.2	80
32	Resource-constrained critical path analysis based on discrete event simulation and particle swarm optimization. *Automation in Construction*, **2008**, 17, 670-681	9.6	68
31	Sensitivity Analysis of Neural Networks in Spool Fabrication Productivity Studies. *Journal of Computing in Civil Engineering*, **2001**, 15, 299-308	5	47
30	Photogrammetry Assisted Measurement of Interstory Drift for Rapid Post-disaster Building Damage Reconnaissance. *Journal of Nondestructive Evaluation*, **2011**, 30, 201-212	2.1	30
29	Constraint Programming Approach to Optimizing Project Schedules under Material Logistics and Crew Availability Constraints. *Journal of Construction Engineering and Management - ASCE*, **2018**, 144, 04018049	4.2	23
28	Estimating Labor Productivity Using Probability Inference Neural Network. *Journal of Computing in Civil Engineering*, **2000**, 14, 241-248	5	23
27	Analytical Approach to Augmenting Site Photos with 3D Graphics of Underground Infrastructure in Construction Engineering Applications. *Journal of Computing in Civil Engineering*, **2011**, 25, 66-74	5	21
26	Materials Handling System Simulation in Precast Viaduct Construction: Modeling, Analysis, and Implementation. *Journal of Construction Engineering and Management - ASCE*, **2008**, 134, 300-310	4.2	16
25	Resource Supply-Demand Matching Scheduling Approach for Construction Workface Planning. *Journal of Construction Engineering and Management - ASCE*, **2016**, 142, 04015048	4.2	13
24	Three-Dimensional Modeling of Site Elements by Analytically Processing Image Data Contained in Site Photos. *Journal of Construction Engineering and Management - ASCE*, **2013**, 139, 881-894	4.2	13
23	A framework for indoor construction resources tracking by applying wireless sensor networks1This paper is one of a selection of papers in this Special Issue on Construction Engineering and Management.. *Canadian Journal of Civil Engineering*, **2012**, 39, 1083-1088	1.3	12
22	Robust Dual-Level Optimization Framework for Resource-Constrained Multiproject Scheduling for a Prefabrication Facility in Construction. *Journal of Computing in Civil Engineering*, **2019**, 33, 04018067	5	10
21	A mixed-integer linear programming approach for temporary haul road design in rough-grading projects. *Automation in Construction*, **2016**, 71, 314-324	9.6	8
20	Synchronized Optimization of Various Management-Function Schedules in a Multiproject Environment: Case Study of Planning Steel Girder Fabrication Projects in Bridge Construction. *Journal of Construction Engineering and Management - ASCE*, **2020**, 146, 05020002	4.2	7
19	Formalizing a path-float-based approach to determine and interpret total float in project scheduling analysis. *International Journal of Construction Management*, **2017**, 17, 251-263	1.9	7
18	Error Propagation Model for Analyzing Project Labor Cost Budget Risks in Industrial Construction. *Journal of Construction Engineering and Management - ASCE*, **2021**, 147, 04021007	4.2	6
17	Achieving Sustainable Structural Steel Design by Estimating Fabrication Labor Cost Based on BIM Data. *Procedia Engineering*, **2016**, 145, 654-661		5

#	Title		
16	Mixed-Integer Linear Programming Based Sensitivity Analysis in Optimization of Temporary Haul Road Layout Design for Earthmoving Operations. *Journal of Computing in Civil Engineering*, **2019**, 33, 04019021	5	4
15	Modified Stepwise Regression Approach to Streamlining Predictive Analytics for Construction Engineering Applications. *Journal of Computing in Civil Engineering*, **2017**, 31, 04016066	5	4
14	Framework for developing labour-hour prediction models from project design features: case study in structural steel fabrication. *Canadian Journal of Civil Engineering*, **2019**, 46, 871-880	1.3	4
13	Proposing a Lean and green framework for equipment cost analysis in construction. *Frontiers of Engineering Management*, **2019**, 6, 384-394	2.7	2
12	BIM-based data mining approach to estimating job man-hour requirements in structural steel fabrication **2014**,		2
11	Investigation into Explainable Regression Trees for Construction Engineering Applications. *Journal of Construction Engineering and Management - ASCE*, **2021**, 147, 04021084	4.2	2
10	Path-Float Based Approach to Optimizing Time-Cost Tradeoff in Project Planning and Scheduling **2019**,		1
9	Developing a Cost-Effective and Adaptive Training Program to Enhance Construction Safety in Tunneling Construction **2018**,		1
8	Simulation of mobile falsework utilization methods in bridge construction **2012**,		1
7	Guidance to Safety-Centric Construction Acceleration Planning in the Context of Project Time-Cost Tradeoff Analysis **2020**,		1
6	Time-Cost Trade-off Optimization Incorporating Accident Risks in Project Planning. *Lecture Notes in Civil Engineering*, **2021**, 643-653	0.3	1
5	Classical Planning Model-Based Approach to Automating Construction Planning on Earthwork Projects. *Computer-Aided Civil and Infrastructure Engineering*, **2019**, 34, 299-315	8.4	1
4	Modeling the impact of work-zone traffic flows upon concrete construction: a high level architecture based simulation framework. *Canadian Journal of Civil Engineering*, **2014**, 41, 144-153	1.3	0
3	Quantifying Resource Inter-activity Utilization Efficiency Through Simulation-Based Scheduling. *Lecture Notes in Civil Engineering*, **2021**, 1276-1287	0.3	0
2	Streamlined project time-cost tradeoff optimization methodology: Algorithm, automation, and application. *Automation in Construction*, **2022**, 133, 104002	9.6	0
1	Evaluating Risk Indices for Execution Plans of Construction Activities: Energy Sources Approach. *Lecture Notes in Civil Engineering*, **2023**, 185-196	0.3	