Ming Lu

List of Publications by Year
in descending order

43 papers	617 citations	623734 14 h-index	610901 24 g-index
45 all docs	45 docs citations	45 times ranked	470 citing authors

#	Article	IF	Citations
1	Resource-Activity Critical-Path Method for Construction Planning. Journal of Construction Engineering and Management - ASCE, 2003, 129, 412-420.	3.8	99
2	Resource-constrained critical path analysis based on discrete event simulation and particle swarm optimization. Automation in Construction, 2008, 17, 670-681.	9.8	84
3	Sensitivity Analysis of Neural Networks in Spool Fabrication Productivity Studies. Journal of Computing in Civil Engineering, 2001, 15, 299-308.	4.7	63
4	Constraint Programming Approach to Optimizing Project Schedules under Material Logistics and Crew Availability Constraints. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	3.8	41
5	Photogrammetry Assisted Measurement of Interstory Drift for Rapid Post-disaster Building Damage Reconnaissance. Journal of Nondestructive Evaluation, 2011, 30, 201-212.	2.4	40
6	Estimating Labor Productivity Using Probability Inference Neural Network. Journal of Computing in Civil Engineering, 2000, 14, 241-248.	4.7	31
7	Materials Handling System Simulation in Precast Viaduct Construction: Modeling, Analysis, and Implementation. Journal of Construction Engineering and Management - ASCE, 2008, 134, 300-310.	3.8	23
8	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.	4.7	23
9	Robust Dual-Level Optimization Framework for Resource-Constrained Multiproject Scheduling for a Prefabrication Facility in Construction. Journal of Computing in Civil Engineering, 2019, 33, .	4.7	18
10	Resource Supply-Demand Matching Scheduling Approach for Construction Workface Planning. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	3.8	17
11	A framework for indoor construction resources tracking by applying wireless sensor networks[1]This 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	15
12	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.	3.8	15
13	A mixed-integer linear programming approach for temporary haul road design in rough-grading projects. Automation in Construction, 2016, 71, 314-324.	9.8	15
14	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, .	3.8	15
15	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, .	4.7	13
16	Classical Planning Model–Based Approach to Automating Construction Planning on Earthwork Projects. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 299-315.	9.8	13
17	Error Propagation Model for Analyzing Project Labor Cost Budget Risks in Industrial Construction. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	3.8	12
18	Modified Stepwise Regression Approach to Streamlining Predictive Analytics for Construction Engineering Applications. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	10

#	Article	IF	Citations
19	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	10
20	Investigation into Explainable Regression Trees for Construction Engineering Applications. Journal of Construction Engineering and Management - ASCE, 2021, 147, .	3.8	9
21	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.	3.2	8
22	Achieving Sustainable Structural Steel Design by Estimating Fabrication Labor Cost Based on BIM Data. Procedia Engineering, 2016, 145, 654-661.	1.2	6
23	Streamlined project time-cost tradeoff optimization methodology: Algorithm, automation, and application. Automation in Construction, 2022, 133, 104002.	9.8	6
24	Integrating model tree and modified stepwise regression in concrete slump prediction and steel fabrication estimating. Canadian Journal of Civil Engineering, 2022, 49, 478-486.	1.3	4
25	BIM-based data mining approach to estimating job man-hour requirements in structural steel fabrication. , 2014, , .		3
26	Developing a Cost-Effective and Adaptive Training Program to Enhance Construction Safety in Tunneling Construction. , 2018, , .		3
27	Variance Analysis on Regression Models for Estimating Labor Costs of Prefabricated Components. Journal of Computing in Civil Engineering, 2022, 36, .	4.7	3
28	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	2
29	Proposing a â€œlean and greenâ€ framework for equipment cost analysis in construction. Frontiers of Engineering Management, 2019, 6, 384-394.	6.1	2
30	Path-Float Based Approach to Optimizing Time-Cost Tradeoff in Project Planning and Scheduling. , 2019, , .		2
31	Guidance to Safety-Centric Construction Acceleration Planning in the Context of Project Time-Cost Tradeoff Analysis. , 2020, , .		2
32	Simulation of mobile falsework utilization methods in bridge construction. , 2012, , .		1
33	Modular construction system simulation incorporating off-shore fabrication and multi-mode transportation. , 2016, , .		1
34	Synthesizing engineering design, material takeoff and simulation-based estimating on a bridge deck reinforcement case. , 2017, , .		1
35	Simulation-based Approach to Systematic Project Planning and Scheduling at a Bridge Girder Fabrication Shop. , 2019, , .		1
36	Time-Cost Trade-off Optimization Incorporating Accident Risks in Project Planning. Lecture Notes in Civil Engineering, 2021, , 643-653.	0.4	1

#	Article	IF	Citations
37	Generating labour cost budget for a construction-oriented fabrication facility: simulation-based resource scheduling approach. Canadian Journal of Civil Engineering, 2022, 49, 1069-1084.	1.3	1
38	Application framework for safety-centric construction acceleration planning. Engineering, Construction and Architectural Management, 2022, ahead-of-print, .	3.1	1
39	Integrated DEMATEL and ANP-Based Framework to Model Construction Labor Productivity. , 2022, , .		1
40	Optimization of Labor Flow Efficiency in Steel Fabrication Project Planning. , 2022, , .		1
41	Planning Rough-Grading Projects: CAT Handbook vs. RS Means. , 2017, , .		0
42	PRODUCTIVITY IMPROVEMENT IN OPERATING AUTONOMOUS PLANTS SUBJECT TO RANDOM BREAKDOWNS IN CONSTRUCTION. , 2018, , .		0
43	Anal Yzing Impact Of Semi-Productive Work Hours In Scheduling and Budgeting Labor-Intensive Projects: Simulation-Based Approach. , 2021, , .		0