

Simaan M Abourizk

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188 papers	3,489 citations	32 h-index	51 g-index
206 ext. papers	4,080 ext. citations	4.4 avg, IF	5.75 L-index

#	Paper	IF	Citations
188	Role of Simulation in Construction Engineering and Management. <i>Journal of Construction Engineering and Management</i> - ASCE, 2010 , 136, 1140-1153	4.2	169
187	Early Contractor Involvement in Design and Its Impact on Construction Schedule Performance. <i>Journal of Management in Engineering</i> - ASCE, 2009 , 25, 12-20	5.3	111
186	Fitting Beta Distributions Based on Sample Data. <i>Journal of Construction Engineering and Management</i> - ASCE, 1994 , 120, 288-305	4.2	105
185	Unified Modeling Methodology for Construction Simulation. <i>Journal of Construction Engineering and Management</i> - ASCE, 2002 , 128, 174-185	4.2	102
184	Utility-Theory Model for Bid Markup Decisions. <i>Journal of Construction Engineering and Management</i> - ASCE, 1996 , 122, 119-124	4.2	92
183	Statistical Properties of Construction Duration Data. <i>Journal of Construction Engineering and Management</i> - ASCE, 1992 , 118, 525-544	4.2	92
182	Perceiving safety risk of buildings adjacent to tunneling excavation: An information fusion approach. <i>Automation in Construction</i> , 2017 , 73, 88-101	9.6	84
181	Research in Modeling and Simulation for Improving Construction Engineering Operations. <i>Journal of Construction Engineering and Management</i> - ASCE, 2011 , 137, 843-852	4.2	82
180	Neural Network Model for Estimating Construction Productivity. <i>Journal of Construction Engineering and Management</i> - ASCE, 1997 , 123, 399-410	4.2	78
179	Risk-based Life-cycle Costing of Infrastructure Rehabilitation and Construction Alternatives. <i>Journal of Infrastructure Systems</i> , 2003 , 9, 6-15	2.9	77
178	A framework for applying simulation in construction. <i>Canadian Journal of Civil Engineering</i> , 1998 , 25, 604-617	1.3	76
177	Measuring and Modeling Labor Productivity Using Historical Data. <i>Journal of Construction Engineering and Management</i> - ASCE, 2008 , 134, 786-794	4.2	75
176	Developing a knowledge management system for improved value engineering practices in the construction industry. <i>Automation in Construction</i> , 2009 , 18, 777-789	9.6	72
175	Visual Interactive Fitting of Beta Distributions. <i>Journal of Construction Engineering and Management</i> - ASCE, 1991 , 117, 589-605	4.2	66
174	Simulation-based route planning for pedestrian evacuation in metro stations: A case study. <i>Automation in Construction</i> , 2016 , 71, 430-442	9.6	61
173	Modeling Framework and Architecture of Hybrid System Dynamics and Discrete Event Simulation for Construction. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2011 , 26, 77-91	8.4	59
172	Symphony 1999 ,		56

171	Simulation-Based Multiagent Approach for Scheduling Modular Construction. <i>Journal of Computing in Civil Engineering</i> , 2014 , 28, 263-274	5	52
170	Bayesian Updating Application into Simulation in the North Edmonton Sanitary Trunk Tunnel Project. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 882-894	4.2	52
169	Resource-Based Modeling for Construction Simulation. <i>Journal of Construction Engineering and Management - ASCE</i> , 1997 , 123, 26-33	4.2	51
168	Estimating Labor Production Rates for Industrial Construction Activities. <i>Journal of Construction Engineering and Management - ASCE</i> , 2001 , 127, 502-511	4.2	49
167	Determining a reasonable concession period for private sector provision of public works and service. <i>Canadian Journal of Civil Engineering</i> , 2006 , 33, 622-631	1.3	48
166	Simplified CPM/PERT Simulation Model. <i>Journal of Construction Engineering and Management - ASCE</i> , 2000 , 126, 219-226	4.2	46
165	Probabilistic Simulation Studies for Repetitive Construction Processes. <i>Journal of Construction Engineering and Management - ASCE</i> , 1990 , 116, 575-594	4.2	46
164	Belief Networks for Construction Performance Diagnostics. <i>Journal of Computing in Civil Engineering</i> , 1998 , 12, 93-100	5	43
163	A framework for an automated and integrated project monitoring and control system for steel fabrication projects. <i>Automation in Construction</i> , 2011 , 20, 88-97	9.6	41
162	Combined Discrete-Event/Continuous Simulation for Project Planning. <i>Journal of Construction Engineering and Management - ASCE</i> , 1997 , 123, 11-20	4.2	39
161	Site Layout and Construction Plan Optimization Using an Integrated Genetic Algorithm Simulation Framework. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017011	5	38
160	Special purpose simulation templates for tunnel construction operations. <i>Canadian Journal of Civil Engineering</i> , 2001 , 28, 222-237	1.3	37
159	Intelligent Approach to Estimation of Tunnel-Induced Ground Settlement Using Wavelet Packet and Support Vector Machines. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04016053	5	35
158	Flow Production of Pipe Spool Fabrication: Simulation to Support Implementation of Lean Technique. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009 , 135, 1027-1038	4.2	34
157	Integrating Document Management with Project and Company Data. <i>Journal of Computing in Civil Engineering</i> , 2000 , 14, 70-77	5	34
156	2010,		32
155	A survey of the bidding practices of Canadian civil engineering construction contractors. <i>Canadian Journal of Civil Engineering</i> , 1999 , 26, 13-25	1.3	31
154	Off-Site Construction Planning Using Discrete Event Simulation. <i>Journal of Architectural Engineering</i> , 2012 , 18, 114-122	1.5	30

153	Assessing Residual Value of Heavy Construction Equipment Using Predictive Data Mining Model. <i>Journal of Computing in Civil Engineering</i> , 2008 , 22, 181-191	5	30
152	Simulation-based scheduling of module assembly yards: case study. <i>Engineering, Construction and Architectural Management</i> , 2007 , 14, 293-311	3.1	30
151	Practical Application for Integrated Performance Measurement of Construction Projects. <i>Journal of Management in Engineering - ASCE</i> , 2014 , 30, 04014027	5.3	29
150	Toward Environmentally Sustainable Construction Processes: The U.S. and Canada's Perspective on Energy Consumption and GHG/CAP Emissions. <i>Sustainability</i> , 2010 , 2, 354-370	3.6	29
149	Enhancing Value Engineering Process by Incorporating Inventive Problem-Solving Techniques. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009 , 135, 416-424	4.2	29
148	Application Framework for Development of Simulation Tools. <i>Journal of Computing in Civil Engineering</i> , 2000 , 14, 160-167	5	29
147	Methodology for integrating fuzzy expert systems and discrete event simulation in construction engineering. <i>Canadian Journal of Civil Engineering</i> , 2009 , 36, 1478-1490	1.3	28
146	Dynamics of Working Hours in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012 , 138, 66-77	4.2	28
145	Performing Global Uncertainty and Sensitivity Analysis from Given Data in Tunnel Construction. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017065	5	27
144	Fuzzy cognitive maps enabled root cause analysis in complex projects. <i>Applied Soft Computing Journal</i> , 2017 , 57, 235-249	7.5	25
143	Application of Lean Concepts and Simulation Analysis to Improve Efficiency of Drainage Operations Maintenance Crews. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 291-299	4.2	25
142	HSM-Simulation-Based Planning Method for Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 1995 , 121, 297-303	4.2	25
141	Application of Computer Simulation in Resolving Construction Disputes. <i>Journal of Construction Engineering and Management - ASCE</i> , 1993 , 119, 355-373	4.2	25
140	Subjective and interactive duration estimation. <i>Canadian Journal of Civil Engineering</i> , 1993 , 20, 457-470	1.3	22
139	Virtual Shop Model for Experimental Planning of Steel Fabrication Projects. <i>Journal of Computing in Civil Engineering</i> , 2006 , 20, 308-316	5	21
138	Simulation-Based Scheduling with Continuous Activity Relationships. <i>Journal of Construction Engineering and Management - ASCE</i> , 1998 , 124, 107-115	4.2	21
137	Comparison of Two Simulation Methodologies in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 1993 , 119, 573-589	4.2	21
136	A simulation-based approach for material yard laydown planning. <i>Automation in Construction</i> , 2014 , 40, 1-8	9.6	19

135	Using Simulation to Plan Tunnel Construction. <i>Journal of Construction Engineering and Management</i> - ASCE, 2013 , 139, 564-571	4.2	19
134	Quantifying Engineering Project Scope for Productivity Modeling. <i>Journal of Construction Engineering and Management</i> - ASCE, 2005 , 131, 360-367	4.2	19
133	Construction project simulation using CYCLONE. <i>Canadian Journal of Civil Engineering</i> , 1998 , 25, 16-25	1.3	19
132	Identification and Association of High-Priority Safety Management System Factors and Accident Precursors for Proactive Safety Assessment and Control. <i>Journal of Management in Engineering</i> - ASCE, 2018 , 34, 04017041	5.3	18
131	Simulation modeling and sensitivity analysis of a tunneling construction project's supply chain. <i>Engineering, Construction and Architectural Management</i> , 2011 , 18, 462-480	3.1	18
130	Building a special purposes simulation tool for earth moving operations 1996 ,		18
129	Special purpose simulation template for utility tunnel construction 1999 ,		18
128	Modeling and Analysis of Aggregate Production Operations. <i>Journal of Construction Engineering and Management</i> - ASCE, 1998 , 124, 390-401	4.2	16
127	Construction site dewatering analysis using a special purpose simulation-based framework. <i>Canadian Journal of Civil Engineering</i> , 1998 , 25, 819-828	1.3	16
126	Case-Based Reasoning Approach for Assessing Safety Performance Using Safety-Related Measures. <i>Journal of Construction Engineering and Management</i> - ASCE, 2018 , 144, 04018088	4.2	15
125	An integrated ergonomics framework for evaluation and design of construction operations. <i>Automation in Construction</i> , 2018 , 95, 72-85	9.6	15
124	Credible interval estimation for fraction nonconforming: Analytical and numerical solutions. <i>Automation in Construction</i> , 2017 , 83, 56-67	9.6	15
123	Dynamics of workforce skill evolution in construction projects1This paper is one of a selection of papers in this Special Issue on Construction Engineering and Management.. <i>Canadian Journal of Civil Engineering</i> , 2012 , 39, 1005-1017	1.3	15
122	Continuous and combined event-process models for simulating pipeline construction. <i>Construction Management and Economics</i> , 1998 , 16, 489-498	3	15
121	State of the art in construction simulation 1992 ,		15
120	Finding Causal Paths between Safety Management System Factors and Accident Precursors. <i>Journal of Management in Engineering</i> - ASCE, 2020 , 36, 04019049	5.3	15
119	A simulation and visualization-based framework of labor efficiency and safety analysis for prevention through design and planning. <i>Automation in Construction</i> , 2018 , 96, 310-323	9.6	15
118	Stochastic Modeling for Assessment of Human Perception and Motion Sensing Errors in Ergonomic Analysis. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017010	5	14

117	Resource Supply-Demand Matching Scheduling Approach for Construction Workforce Planning. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04015048	4.2	13
116	A hybrid simulation approach for quantitatively analyzing the impact of facility size on construction projects. <i>Automation in Construction</i> , 2015 , 60, 39-48	9.6	13
115	Simulation-Based Analytics for Quality Control Decision Support: Pipe Welding Case Study. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 05018002	5	13
114	A hybrid information fusion approach to safety risk perception using sensor data under uncertainty. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 105-122	3.5	13
113	Quantitative Method for Updating Cost Contingency throughout Project Execution. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012 , 138, 759-766	4.2	13
112	Social network analysis of change management processes for communication assessment. <i>Automation in Construction</i> , 2020 , 118, 103292	9.6	12
111	Zero-One Programming Approach to Determine Optimum Resource Supply under Time-Dependent Resource Constraints. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04015028	5	12
110	Combining photogrammetry and robotic total stations to obtain dimensional measurements of temporary facilities in construction field. <i>Visualization in Engineering</i> , 2013 , 1, 4	3	12
109	An overview of the COSYE environment for construction simulation 2009 ,		12
108	Bayesian Inference with Markov Chain Monte Carlo-Based Numerical Approach for Input Model Updating. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04019043	5	12
107	Integrating Case-Based Reasoning and Simulation Modeling for Testing Strategies to Control Safety Performance. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 04018047	5	11
106	Simphony Supply Chain Simulator: a simulation toolkit to model the supply chain of construction projects. <i>Simulation</i> , 2011 , 87, 657-667	1.2	11
105	AN OPTIMIZATION METHOD FOR SIMULATING LARGE COMPLEX SYSTEMS. <i>Engineering Optimization</i> , 1995 , 25, 213-229	2	11
104	Complexity Analysis Approach for Prefabricated Construction Products Using Uncertain Data Clustering. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018 , 144, 04018063	4.2	11
103	Data-Driven Simulation Model for Quality-Induced Rework Cost Estimation and Control Using Absorbing Markov Chains. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018 , 144, 04018078	4.2	10
102	Simulation-Based Fuzzy Logic Approach to Assessing the Effect of Project Quality Management on Construction Performance. <i>Journal of Quality and Reliability Engineering</i> , 2014 , 2014, 1-18		10
101	Carbon Footprints Analysis for Tunnel Construction Processes in the Preplanning Phase Using Collaborative Simulation 2010 ,		10
100	Design and Implementation of Loose-Coupling Visualization Components in a Distributed Construction Simulation Environment with HLA. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 248-258	5	10

99	Computerized Tool for Hierarchical Simulation Modeling. <i>Journal of Computing in Civil Engineering</i> , 1996 , 10, 115-124	5	9
98	Integrated data-driven approach for analyzing pipe welding operator-quality performance. <i>Automation in Construction</i> , 2019 , 106, 102814	9.6	8
97	Large-scale simulation modeling system for industrial construction. <i>Canadian Journal of Civil Engineering</i> , 2009 , 36, 1517-1529	1.3	8
96	2006 ,		8
95	Simplified CPM/PERT Simulation Model. <i>Journal of Construction Engineering and Management - ASCE</i> , 2001 , 127, 513-514	4.2	8
94	Analysis and Evaluation of Alternative Technologies. <i>Journal of Management in Engineering - ASCE</i> , 1994 , 10, 65-71	5.3	8
93	Data-Driven Simulation-Based Analytics for Heavy Equipment Life-Cycle Cost. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020038	4.2	7
92	Applying Basic Control Theory Principles to Project Control: Case Study of Off-Site Construction Shops. <i>Journal of Computing in Civil Engineering</i> , 2012 , 26, 681-690	5	7
91	Simulation-Based Scheduling of Modular Construction Using Multi-agent Resource Allocation 2010 ,		7
90	2007 ,		7
89	A virtual shop modeling system for industrial fabrication shops. <i>Simulation Modelling Practice and Theory</i> , 2006 , 14, 649-662	3.9	7
88	Distributed Simulation-Based Analytics Approach for Enhancing Safety Management Systems in Industrial Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04019091	4.2	7
87	Optimizing the Owner's Scenarios for Budget Allocation in a Portfolio of Projects Using Agent-Based Simulation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 04017022	4.2	6
86	Micro-motion level simulation for efficiency analysis and duration estimation of manual operations. <i>Automation in Construction</i> , 2016 , 71, 443-452	9.6	6
85	Genetic Algorithm-Based Simulation Framework for Decision Making in Construction Site Layout Planning. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 04016084	4.2	6
84	Identification of Invariant Average Weighted Haul Distance to Simplify Earthmoving Simulation Modeling in Planning Site Grading Operations. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014 , 140, 04014057	4.2	6
83	Application of KDD Techniques to Extract Useful Knowledge from Labor Resources Data in Industrial Construction Projects. <i>Journal of Management in Engineering - ASCE</i> , 2014 , 30, 05014011	5.3	6
82	Integrating realtime project progress input into a construction simulation model 2011 ,		6

81	AP2-Earth 1997 ,		6
80	2007 ,		6
79	Time of Sampling Strategies for Asphalt Pavement Quality Assurance. <i>Journal of Construction Engineering and Management - ASCE</i> , 2002 , 128, 85-89	4.2	6
78	Dynamic, Data-Driven Decision-Support Approach for Construction Equipment Acquisition and Disposal. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04019053	5	6
77	Stratified statistical analysis for effectiveness evaluation of frontline worker safety intervention: Case study of construction steel fabrication. <i>Safety Science</i> , 2019 , 115, 89-102	5.8	6
76	Empirical Testing for Use of Safety Related Measures at the Organizational Level to Assess and Control the On-Site Risk Level. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 05017004	4.2	5
75	Equipment Logistics Performance Measurement Using Data-Driven Social Network Analysis. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019033	4.2	5
74	Updating geological conditions using Bayes theorem and Markov chain 2015 ,		5
73	Simulation-based aggregate planning of batch plant operations. <i>Canadian Journal of Civil Engineering</i> , 2010 , 37, 1277-1288	1.3	5
72	Simulation modeling decision support through belief networks. <i>Simulation Modelling Practice and Theory</i> , 2006 , 14, 614-640	3.9	5
71	Performance measurement indices for simulated construction operations. <i>Canadian Journal of Civil Engineering</i> , 2001 , 28, 383-393	1.3	5
70	Sample Size Analysis for Asphalt Pavement Quality Control. <i>Journal of Infrastructure Systems</i> , 1999 , 5, 118-123	2.9	5
69	A Hypertext Decision Support Model for Contractor Prequalification. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 1995 , 10, 111-121	8.4	5
68	Applications of Variance Reduction Techniques in Construction Simulation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 1990 , 5, 299-306	8.4	5
67	Intelligent data-driven approach for enhancing preliminary resource planning in industrial construction. <i>Automation in Construction</i> , 2021 , 130, 103846	9.6	5
66	Introduction to Techniques for Resolving Project Performance Contradictions. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04016027	4.2	4
65	Quantitative Assessment of Budget Sufficiency and Resource Utilization for Resource-Constrained Project Schedules. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04016003	4.2	4
64	A simulation-based framework for quantifying the cold regions weather impacts on construction schedules 2007 ,		4

63	Product-based model representation for integrating 3D CAD with computer simulation 1999 ,		4
62	Application of simulation in trenchless renewal of underground urban infrastructure 1999 ,		4
61	Measuring Productivity and Validating Microcomputer Simulation. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 1991 , 6, 205-215	8.4	4
60	Numerical-Based Approach for Updating Simulation Input in Real Time. <i>Journal of Computing in Civil Engineering</i> , 2021 , 35, 04020067	5	4
59	Hybrid multi-mode simulation and optimization for subarea scheduling in heavy industrial construction. <i>Automation in Construction</i> , 2021 , 125, 103616	9.6	4
58	Automated Extraction and Time-Cost Prediction of Contractual Reporting Requirements in Construction Using Natural Language Processing and Simulation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6188	2.6	4
57	Hybrid Genetic Algorithm-Simulation Optimization Method for Proactively Planning Layout of Material Yard Laydown. <i>Journal of Construction Engineering and Management - ASCE</i> , 2015 , 141, 06015001 ^{4.2}		3
56	Simulation based multi-objective cost-time trade-off for multi-family residential off-site construction 2015 ,		3
55	Developing complex distributed simulation for industrial plant construction using High Level Architecture 2010 ,		3
54	Developing a Bidding Game Using High Level Architecture 2009 ,		3
53	Distributed agent-based simulation of construction projects with HLA 2008 ,		3
52	Creating Special Purpose Simulation Tools with Symphony 2000 , 87		3
51	A decision support tool for planning module installation in industrial construction. <i>Engineering, Construction and Architectural Management</i> , 2020 , 27, 2615-2641	3.1	3
50	Data-driven simulation-based model for planning roadway operation and maintenance projects 2017 ,		2
49	Simulation case study: Modelling distinct breakdown events for a Tunnel Boring Machine excavation 2015 ,		2
48	Methodology for Crew-Job Allocation Optimization in Project and Workface Scheduling 2015 ,		2
47	Bi-level project simulation methodology to integrate superintendent and project manager in decision making: Shutdown/turnaround applications 2014 ,		2
46	BIM-based data mining approach to estimating job man-hour requirements in structural steel fabrication 2014 ,		2

45	A discrete event simulation model of asphalt paving operations 2013 ,		2
44	3D CAD modeling and visualization of the tunnel construction process in a distributed simulation environment 2010 ,		2
43	Analyzing transit tunnel construction strategies using discrete event simulation 2011 ,		2
42	Effective strategies for simulating one-of-a-kind construction projects 2012 ,		2
41	A Special Purpose Simulation Template for Modeling Tire Usage of Mining Truck Fleet 2012 ,		2
40	Residential Construction Lot Grading Approval Process Optimization: Case Study of City of Edmonton. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 1225-1233	4.2	2
39	PRIORITY RATING LOGIC SIMULATION MODEL FOR TOWER CRANE OPERATIONS MANAGEMENT. <i>Journal of Construction Research</i> , 2006 , 07, 133-147		2
38	Modeling uncertainty with an integrated simulation system. <i>Canadian Journal of Civil Engineering</i> , 2005 , 32, 533-542	1.3	2
37	Measuring and Estimating Steel Drafting Productivity 2003 ,		2
36	An analytical method to predict soil types for underground construction operations. <i>Civil Engineering and Environmental Systems</i> , 2005 , 22, 49-69	2.1	2
35	Integrating Process Simulation into Construction Engineering Education. <i>European Journal of Engineering Education</i> , 1994 , 19, 51-67	1.5	2
34	Automation in Extraction and Sharing Information between BIM and Project Management Databases 2020 ,		2
33	Fuzzy-Based Multivariate Analysis for Input Modeling of Risk Assessment in Wind Farm Projects. <i>Algorithms</i> , 2020 , 13, 325	1.8	2
32	IMPROVING TUNNELING SIMULATION USING BAYESIAN UPDATING AND HIDDEN MARKOV CHAINS 2018 ,		2
31	Construction Site Layout Planning Using a Simulation-Based Decision Support Tool. <i>Logistics</i> , 2021 , 5, 65	3.5	2
30	Fuzzy Cognitive Maps as a tool for modeling construction labor productivity 2015 ,		1
29	A combined discrete-continuous simulation model for analyzing train-pedestrian interactions 2016 ,		1
28	Material and facility layout planning in construction projects using simulation 2014 ,		1

27	2013,		1
26	2010,		1
25	Exploring the Effects of Context Level Factors on the Structural Steel Fabrication Shop Operation 2010,		1
24	Resource Performance Indicators in Controlling Industrial Steel Projects 2010,		1
23	Meaningful Level of Change in hybrid simulation for construction analysis 2009,		1
22	Simulation of mobile falsework utilization methods in bridge construction 2012,		1
21	Structural Steel Fabrication Special Purpose Simulation 2012,		1
20	A simulation template for modeling tunnel shaft construction 2008,		1
19	Decision support in construction equipment management using a nonparametric outlier mining algorithm. <i>Expert Systems With Applications</i> , 2008, 34, 1974-1982	7.8	1
18	Special Purpose Simulation Templates for Tunneling 2000, 97		1
17	Automating Common Data Integration for Improved Data-Driven Decision-Support System in Industrial Construction. <i>Journal of Computing in Civil Engineering</i> , 2022, 36,	5	1
16	Standardized Risk Analysis for Infrastructure Assessment 2008, 131-140		1
15	Domain-specific risk assessment using integrated simulation: A case study of an onshore wind project. <i>Canadian Journal of Civil Engineering</i> ,	1.3	1
14	Simulation-based analysis of operational efficiency and safety in a virtual environment 2016,		1
13	Evaluating the Impact of Motion Sensing Errors on Ergonomic Analysis 2016,		1
12	Enhanced Welding Operator Quality Performance Measurement: Work Experience-Integrated Bayesian Prior Determination 2019,		1
11	Reaction Time Optimization Based on Sensor Data-Driven Simulation for Snow Removal Projects 2018,		1
10	Simulation-Based Approach for Lookahead Scheduling of Onshore Wind Projects Subject to Weather Risk. <i>Sustainability</i> , 2021, 13, 10060	3.6	1

9	Operation Effort Optimization for Planning Performance-Based Snow-Removal Projects. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04017060	5	o
8	Modeling the impact of work-zone traffic flows upon concrete construction: a high level architecture based simulation framework. <i>Canadian Journal of Civil Engineering</i> , 2014 , 41, 144-153	1.3	o
7	Integrated lean concepts and continuous/discrete-event simulation to examine productivity improvement in door assembly-line for residential buildings. <i>International Journal of Construction Management</i> , 2020 , 1-12	1.9	o
6	A hybrid simulation approach for microtunneling construction planning. <i>Construction Innovation</i> , 2021 , 21, 363-378	4.1	o
5	Data-Driven Simulation Approach for Short-Term Planning of Winter Highway Maintenance Operations. <i>Journal of Computing in Civil Engineering</i> , 2021 , 35, 04021013	5	o
4	The University of Alberta's Hole School of Construction Engineering: 25 Years of Impact and Innovation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 02517001	4.2	
3	SPS tools for capital project planning analysis. <i>International Journal of Simulation and Process Modelling</i> , 2010 , 6, 58	0.4	
2	Adequate data collection frequency and gauging length for surface condition rating in Alberta. <i>Canadian Journal of Civil Engineering</i> , 2001 , 28, 871-874	1.3	
1	Discussion of Modeling Operational Activities in Object-Oriented Simulation by Amr A. Oloufa (January 1993, Vol. 7, No. 1). <i>Journal of Computing in Civil Engineering</i> , 1994 , 8, 392-395	5	