Simaan M Abourizk

List of Publications by Year
in descending order

205 papers	4,785 citations	101543 36 h-index	133252 59 g-index
206 all docs	206 docs citations	206 times ranked	2105 citing authors

#	Article	IF	Citations
1	Role of Simulation in Construction Engineering and Management. Journal of Construction Engineering and Management - ASCE, 2010, 136, 1140-1153.	3.8	231
2	Early Contractor Involvement in Design and Its Impact on Construction Schedule Performance. Journal of Management in Engineering - ASCE, 2009, 25, 12-20.	4.8	144
3	Unified Modeling Methodology for Construction Simulation. Journal of Construction Engineering and Management - ASCE, 2002, 128, 174-185.	3.8	135
4	Statistical Properties of Construction Duration Data. Journal of Construction Engineering and Management - ASCE, 1992, 118, 525-544.	3.8	124
5	Fitting Beta Distributions Based on Sample Data. Journal of Construction Engineering and Management - ASCE, 1994, 120, 288-305.	3.8	118
6	Research in Modeling and Simulation for Improving Construction Engineering Operations. Journal of Construction Engineering and Management - ASCE, 2011, 137, 843-852.	3.8	111
7	Perceiving safety risk of buildings adjacent to tunneling excavation: An information fusion approach. Automation in Construction, 2017, 73, 88-101.	9.8	107
8	Utility-Theory Model for Bid Markup Decisions. Journal of Construction Engineering and Management - ASCE, 1996, 122, 119-124.	3.8	104
9	Neural Network Model for Estimating Construction Productivity. Journal of Construction Engineering and Management - ASCE, 1997, 123, 399-410.	3.8	101
10	Measuring and Modeling Labor Productivity Using Historical Data. Journal of Construction Engineering and Management - ASCE, 2008, 134, 786-794.	3.8	101
11	Simphony. , 1999, , .		99
12	A framework for applying simulation in construction. Canadian Journal of Civil Engineering, 1998, 25, 604-617.	1.3	96
13	Developing a knowledge management system for improved value engineering practices in the construction industry. Automation in Construction, 2009, 18, 777-789.	9.8	93
14	Risk-based Life-cycle Costing of Infrastructure Rehabilitation and Construction Alternatives. Journal of Infrastructure Systems, 2003, 9, 6-15.	1.8	89
15	Simulation-based route planning for pedestrian evacuation in metro stations: A case study. Automation in Construction, 2016, 71, 430-442.	9.8	84
16	Visual Interactive Fitting of Beta Distributions. Journal of Construction Engineering and Management - ASCE, 1991, 117, 589-605.	3.8	77
17	Simulation-Based Multiagent Approach for Scheduling Modular Construction. Journal of Computing in Civil Engineering, 2014, 28, 263-274.	4.7	76
18	Modeling Framework and Architecture of Hybrid System Dynamics and Discrete Event Simulation for Construction. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 77-91.	9.8	73

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19	Simplified CPM/PERT Simulation Model. Journal of Construction Engineering and Management - ASCE, 2000, 126, 219-226.	3.8	70
20	Estimating Labor Production Rates for Industrial Construction Activities. Journal of Construction Engineering and Management - ASCE, 2001, 127, 502-511.	3.8	67
21	Intelligent Approach to Estimation of Tunnel-Induced Ground Settlement Using Wavelet Packet and Support Vector Machines. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	67
22	Bayesian Updating Application into Simulation in the North Edmonton Sanitary Trunk Tunnel Project. Journal of Construction Engineering and Management - ASCE, 2006, 132, 882-894.	3.8	66
23	Resource-Based Modeling for Construction Simulation. Journal of Construction Engineering and Management - ASCE, 1997, 123, 26-33.	3.8	64
24	Probabilistic Simulation Studies for Repetitive Construction Processes. Journal of Construction Engineering and Management - ASCE, 1990, 116, 575-594.	3.8	56
25	Determining a reasonable concession period for private sector provision of public works and service. Canadian Journal of Civil Engineering, 2006, 33, 622-631.	1.3	54
26	Site Layout and Construction Plan Optimization Using an Integrated Genetic Algorithm Simulation Framework. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	53
27	Belief Networks for Construction Performance Diagnostics. Journal of Computing in Civil Engineering, 1998, 12, 93-100.	4.7	52
28	A framework for an automated and integrated project monitoring and control system for steel fabrication projects. Automation in Construction, 2011, 20, 88-97.	9.8	52
29	Off-Site Construction Planning Using Discrete Event Simulation. Journal of Architectural Engineering, 2012, 18, 114-122.	1.6	47
30	Practical Application for Integrated Performance Measurement of Construction Projects. Journal of Management in Engineering - ASCE, 2014, 30, .	4.8	46
31	Combined Discrete-Event/Continuous Simulation for Project Planning. Journal of Construction Engineering and Management - ASCE, 1997, 123, 11-20.	3.8	45
32	Special purpose simulation templates for tunnel construction operations. Canadian Journal of Civil Engineering, 2001, 28, 222-237.	1.3	45
33	Dynamics of Working Hours in Construction. Journal of Construction Engineering and Management - ASCE, 2012, 138, 66-77.	3.8	45
34	Integrating Document Management with Project and Company Data. Journal of Computing in Civil Engineering, 2000, 14, 70-77.	4.7	44
35	Performing Global Uncertainty and Sensitivity Analysis from Given Data in Tunnel Construction. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	43
36	Flow Production of Pipe Spool Fabrication: Simulation to Support Implementation of Lean Technique. Journal of Construction Engineering and Management - ASCE, 2009, 135, 1027-1038.	3.8	42

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37	A survey of the bidding practices of Canadian civil engineering construction contractors. Canadian Journal of Civil Engineering, 1999, 26, 13-25.	1.3	40
38	Application of Computer Simulation in Resolving Construction Disputes. Journal of Construction Engineering and Management - ASCE, 1993, 119, 355-373.	3.8	38
39	Finding Causal Paths between Safety Management System Factors and Accident Precursors. Journal of Management in Engineering - ASCE, 2020, 36, .	4.8	36
40	Application Framework for Development of Simulation Tools. Journal of Computing in Civil Engineering, 2000, 14, 160-167.	4.7	35
41	Simulationâ€based scheduling of module assembly yards: case study. Engineering, Construction and Architectural Management, 2007, 14, 293-311.	3.1	35
42	Assessing Residual Value of Heavy Construction Equipment Using Predictive Data Mining Model. Journal of Computing in Civil Engineering, 2008, 22, 181-191.	4.7	35
43	Enhancing Value Engineering Process by Incorporating Inventive Problem-Solving Techniques. Journal of Construction Engineering and Management - ASCE, 2009, 135, 416-424.	3.8	35
44	Toward Environmentally Sustainable Construction Processes: The U.S. and Canadaâ€™s Perspective on Energy Consumption and GHG/CAP Emissions. Sustainability, 2010, 2, 354-370.	3.2	35
45	Subjective and interactive duration estimation. Canadian Journal of Civil Engineering, 1993, 20, 457-470.	1.3	32
46	Fuzzy cognitive maps enabled root cause analysis in complex projects. Applied Soft Computing Journal, 2017, 57, 235-249.	7.2	32
47	Identification and Association of High-Priority Safety Management System Factors and Accident Precursors for Proactive Safety Assessment and Control. Journal of Management in Engineering - ASCE, 2018, 34, .	4.8	32
48	State of the art in construction simulation. , 1992, , .		30
49	HSM-Simulationâ€"Based Planning Method for Construction Projects. Journal of Construction Engineering and Management - ASCE, 1995, 121, 297-303.	3.8	30
50	A simulation and visualization-based framework of labor efficiency and safety analysis for prevention through design and planning. Automation in Construction, 2018, 96, 310-323.	9.8	30
51	Construction project simulation using CYCLONE. Canadian Journal of Civil Engineering, 1998, 25, 16-25.	1.3	29
52	Application of Lean Concepts and Simulation Analysis to Improve Efficiency of Drainage Operations Maintenance Crews. Journal of Construction Engineering and Management - ASCE, 2006, 132, 291-299.	3.8	29
53	Methodology for integrating fuzzy expert systems and discrete event simulation in construction engineering. Canadian Journal of Civil Engineering, 2009, 36, 1478-1490.	1.3	29
54	Simulation modeling and sensitivity analysis of a tunneling construction project's supply chain. Engineering, Construction and Architectural Management, 2011, 18, 462-480.	3.1	29

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55	A simulation-based approach for material yard laydown planning. Automation in Construction, 2014, 40, 1-8.	9.8	29
56	Comparison of Two Simulation Methodologies in Construction. Journal of Construction Engineering and Management - ASCE, 1993, 119, 573-589.	3.8	28
57	Special purpose simulation template for utility tunnel construction. , 1999, , .		28
58	Simulation-Based Scheduling with Continuous Activity Relationships. Journal of Construction Engineering and Management - ASCE, 1998, 124, 107-115.	3.8	27
59	Using Simulation to Plan Tunnel Construction. Journal of Construction Engineering and Management - ASCE, 2013, 139, 564-571.	3.8	27
60	Building a special purposes simulation tool for earth moving operations. , 1996, , .		26
61	Virtual Shop Model for Experimental Planning of Steel Fabrication Projects. Journal of Computing in Civil Engineering, 2006, 20, 308-316.	4.7	25
62	A hybrid information fusion approach to safety risk perception using sensor data under uncertainty. Stochastic Environmental Research and Risk Assessment, 2018, 32, 105-122.	4.0	25
63	Quantifying Engineering Project Scope for Productivity Modeling. Journal of Construction Engineering and Management - ASCE, 2005, 131, 360-367.	3.8	23
64	An integrated ergonomics framework for evaluation and design of construction operations. Automation in Construction, 2018, 95, 72-85.	9.8	23
65	Construction site dewatering analysis using a special purpose simulation-based framework. Canadian Journal of Civil Engineering, 1998, 25, 819-828.	1.3	22
66	Carbon Footprints Analysis for Tunnel Construction Processes in the Preplanning Phase Using Collaborative Simulation. , 2010, , .		22
67	Modeling and Analysis of Aggregate Production Operations. Journal of Construction Engineering and Management - ASCE, 1998, 124, 390-401.	3.8	21
68	Continuous and combined event-process models for simulating pipeline construction. Construction Management and Economics, 1998, 16, 489-498.	3.0	21
69	Bayesian Inference with Markov Chain Monte Carloâ€"Based Numerical Approach for Input Model Updating. Journal of Computing in Civil Engineering, 2020, 34, .	4.7	20
70	Social network analysis of change management processes for communication assessment. Automation in Construction, 2020, 118, 103292.	9.8	20
71	Dynamics of workforce skill evolution in construction projects[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, 1005-1017.	1.3	19
72	Credible interval estimation for fraction nonconforming: Analytical and numerical solutions. Automation in Construction, 2017, 83, 56-67.	9.8	19

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73	Case-Based Reasoning Approach for Assessing Safety Performance Using Safety-Related Measures. Journal of Construction Engineering and Management - ASCE, 2018, 144, 04018088.	3.8	19
74	An overview of the COSYE environment for construction simulation. , 2009, , .		18
75	Application of KDD Techniques to Extract Useful Knowledge from Labor Resources Data in Industrial Construction Projects. Journal of Management in Engineering - ASCE, 2014, 30, .	4.8	18
76	Stochastic Modeling for Assessment of Human Perception and Motion Sensing Errors in Ergonomic Analysis. Journal of Computing in Civil Engineering, 2017, 31, 04017010.	4.7	18
77	Complexity Analysis Approach for Prefabricated Construction Products Using Uncertain Data Clustering. Journal of Construction Engineering and Management - ASCE, 2018, 144, .	3.8	18
78	Distributed Simulation–Based Analytics Approach for Enhancing Safety Management Systems in Industrial Construction. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	3.8	18
79	Quantitative Method for Updating Cost Contingency throughout Project Execution. Journal of Construction Engineering and Management - ASCE, 2012, 138, 759-766.	3.8	17
80	A hybrid simulation approach for quantitatively analyzing the impact of facility size on construction projects. Automation in Construction, 2015, 60, 39-48.	9.8	17
81	Resource Supply-Demand Matching Scheduling Approach for Construction Workface Planning. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	3.8	17
82	Integrating Case-Based Reasoning and Simulation Modeling for Testing Strategies to Control Safety Performance. Journal of Computing in Civil Engineering, 2018, 32, .	4.7	17
83	Genetic Algorithm–Simulation Framework for Decision Making in Construction Site Layout Planning. Journal of Construction Engineering and Management - ASCE, 2017, 143, 04016084.	3.8	16
84	Simulation-Based Analytics for Quality Control Decision Support: Pipe Welding Case Study. Journal of Computing in Civil Engineering, 2018, 32, .	4.7	16
85	Data-Driven Simulation Model for Quality-Induced Rework Cost Estimation and Control Using Absorbing Markov Chains. Journal of Construction Engineering and Management - ASCE, 2018, 144, 04018078.	3.8	16
86	AN OPTIMIZATION METHOD FOR SIMULATING LARGE COMPLEX SYSTEMS. Engineering Optimization, 1995, 25, 213-229.	2.6	15
87	Simphony Supply Chain Simulator: a simulation toolkit to model the supply chain of construction projects. Simulation, 2011, 87, 657-667.	1.8	15
88	Zero-One Programming Approach to Determine Optimum Resource Supply under Time-Dependent Resource Constraints. Journal of Computing in Civil Engineering, 2016, 30, .	4.7	15
89	Hybrid multi-mode simulation and optimization for subarea scheduling in heavy industrial construction. Automation in Construction, 2021, 125, 103616.	9.8	15
90	Automated Extraction and Time-Cost Prediction of Contractual Reporting Requirements in Construction Using Natural Language Processing and Simulation. Applied Sciences (Switzerland), 2021, 11, 6188.	2.5	15

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91	Large-scale simulation modeling system for industrial construction. Canadian Journal of Civil Engineering, 2009, 36, 1517-1529.	1.3	14
92	Combining photogrammetry and robotic total stations to obtain dimensional measurements of temporary facilities in construction field. Visualization in Engineering, 2013, 1, 4.	8.8	14
93	Simulation-Based Fuzzy Logic Approach to Assessing the Effect of Project Quality Management on Construction Performance. Journal of Quality and Reliability Engineering, 2014, 2014, 1-18.	1.3	14
94	Optimizing the Ownerâ€™s Scenarios for Budget Allocation in a Portfolio of Projects Using Agent-Based Simulation. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	3.8	14
95	Integrated data-driven approach for analyzing pipe welding operator-quality performance. Automation in Construction, 2019, 106, 102814.	9.8	13
96	Computerized Tool for Hierarchical Simulationâ€‰Modeling. Journal of Computing in Civil Engineering, 1996, 10, 115-124.	4.7	12
97	Design and Implementation of Loose-Coupling Visualization Components in a Distributed Construction Simulation Environment with HLA. Journal of Computing in Civil Engineering, 2012, 26, 248-258.	4.7	12
98	Applying Basic Control Theory Principles to Project Control: Case Study of Off-Site Construction Shops. Journal of Computing in Civil Engineering, 2012, 26, 681-690.	4.7	12
99	A virtual shop modeling system for industrial fabrication shops. Simulation Modelling Practice and Theory, 2006, 14, 649-662.	3.8	11
100	Dynamic, Data-Driven Decision-Support Approach for Construction Equipment Acquisition and Disposal. Journal of Computing in Civil Engineering, 2020, 34, .	4.7	11
101	Data-Driven Simulation-Based Analytics for Heavy Equipment Life-Cycle Cost. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	3.8	11
102	Intelligent data-driven approach for enhancing preliminary resource planning in industrial construction. Automation in Construction, 2021, 130, 103846.	9.8	11
103	Micro-motion level simulation for efficiency analysis and duration estimation of manual operations. Automation in Construction, 2016, 71, 443-452.	9.8	10
104	Equipment Logistics Performance Measurement Using Data-Driven Social Network Analysis. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	3.8	10
105	Analysis and Evaluation of Alternative Technologies. Journal of Management in Engineering - ASCE, 1994, 10, 65-71.	4.8	9
106	Simplified CPM/PERT Simulation Model. Journal of Construction Engineering and Management - ASCE, 2001, 127, 513-514.	3.8	9
107	Productivity Simulation During the Planning Phase of the Glencoe Tunnel in Calgary, Canada: A Case Study. , 2006, , .		9
108	AP2-Earth. , 1997, , .		8

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109	Performance measurement indices for simulated construction operations. Canadian Journal of Civil Engineering, 2001, 28, 383-393.	1.3	8
110	A simulation-based framework for quantifying the cold regions weather impacts on construction schedules. , 2007, , .		8
111	Qualitative simulation of construction performance using fuzzy cognitive maps. , 2007, , .		8
112	Simulation-Based Scheduling of Modular Construction Using Multi-agent Resource Allocation. , 2010, , .		8
113	Stratified statistical analysis for effectiveness evaluation of frontline worker safety intervention: Case study of construction steel fabrication. Safety Science, 2019, 115, 89-102.	4.9	8
114	A Hypertext Decision Support Model for Contractor Prequalification. Computer-Aided Civil and Infrastructure Engineering, 1995, 10, 111-121.	9.8	7
115	Sample Size Analysis for Asphalt Pavement Quality Control. Journal of Infrastructure Systems, 1999, 5, 118-123.	1.8	7
116	Time of Sampling Strategies for Asphalt Pavement Quality Assurance. Journal of Construction Engineering and Management - ASCE, 2002, 128, 85-89.	3.8	7
117	Decision support in construction equipment management using a nonparametric outlier mining algorithm. Expert Systems With Applications, 2008, 34, 1974-1982.	7.6	7
118	Identification of Invariant Average Weighted Haul Distance to Simplify Earthmoving Simulation Modeling in Planning Site Grading Operations. Journal of Construction Engineering and Management - ASCE, 2014, 140, .	3.8	7
119	Hybrid Genetic Algorithm-Simulation Optimization Method for Proactively Planning Layout of Material Yard Laydown. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	3.8	7
120	Numerical-Based Approach for Updating Simulation Input in Real Time. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	7
121	Automating Common Data Integration for Improved Data-Driven Decision-Support System in Industrial Construction. Journal of Computing in Civil Engineering, 2022, 36, .	4.7	7
122	Measuring Productivity and Validating Microcomputer Simulation. Computer-Aided Civil and Infrastructure Engineering, 1991, 6, 205-215.	9.8	6
123	Application of simulation in trenchless renewal of underground urban infrastructure. , 1999, , .		6
124	Simulation and uncertainty modeling of project schedules estimates. , 2007, , .		6
125	Simulation-based aggregate planning of batch plant operations. Canadian Journal of Civil Engineering, 2010, 37, 1277-1288.	1.3	6
126	Integrating realtime project progress input into a construction simulation model. , 2011, , .		6

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127	Updating geological conditions using Bayes theorem and Markov chain. , 2015, , .		6
128	Empirical Testing for Use of Safety Related Measures at the Organizational Level to Assess and Control the On-Site Risk Level. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	3.8	6
129	Integrated lean concepts and continuous/discrete-event simulation to examine productivity improvement in door assembly-line for residential buildings. International Journal of Construction Management, 2022, 22, 2423-2434.	3.2	6
130	Construction Site Layout Planning Using a Simulation-Based Decision Support Tool. Logistics, 2021, 5, 65.	4.3	6
131	Applications of Variance Reduction Techniques in Construction Simulation. Computer-Aided Civil and Infrastructure Engineering, 1990, 5, 299-306.	9.8	5
132	Product-based model representation for integrating 3D CAD with computer simulation. , 1999, , .		5
133	Measuring and Estimating Steel Drafting Productivity. , 2003, , .		5
134	Simulation modeling decision support through belief networks. Simulation Modelling Practice and Theory, 2006, 14, 614-640.	3.8	5
135	Developing complex distributed simulation for industrial plant construction using High Level Architecture. , 2010, , .		5
136	3D CAD modeling and visualization of the tunnel construction process in a distributed simulation environment. , 2010, , .		5
137	A discrete event simulation model of asphalt paving operations. , 2013, , .		5
138	Introduction to Techniques for Resolving Project Performance Contradictions. Journal of Construction Engineering and Management - ASCE, 2016, 142, 04016027.	3.8	5
139	Quantitative Assessment of Budget Sufficiency and Resource Utilization for Resource-Constrained Project Schedules. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	3.8	5
140	A decision support tool for planning module installation in industrial construction. Engineering, Construction and Architectural Management, 2020, 27, 2615-2641.	3.1	5
141	Creating Special Purpose Simulation Tools with Simphony. , 2000, , 87.		4
142	Developing a Bidding Game Using High Level Architecture. , 2009, , .		4
143	Simulation based multi-objective cost-time trade-off for multi-family residential off-site construction. , 2015, , .		4
144	Operation Effort Optimization for Planning Performance-Based Snow-Removal Projects. Journal of Computing in Civil Engineering, 2017, 31, 04017060.	4.7	4

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145	Fuzzy-Based Multivariate Analysis for Input Modeling of Risk Assessment in Wind Farm Projects. Algorithms, 2020, 13, 325.	2.1	4
146	Modeling uncertainty with an integrated simulation system. Canadian Journal of Civil Engineering, 2005, 32, 533-542.	1.3	3
147	Residential Construction Lot Grading Approval Process Optimization: Case Study of City of Edmonton. Journal of Construction Engineering and Management - ASCE, 2006, 132, 1225-1233.	3.8	3
148	PRIORITY RATING LOGIC SIMULATION MODEL FOR TOWER CRANE OPERATIONS MANAGEMENT. Journal of Construction Research, 2006, 07, 133-147.	0.3	3
149	Distributed agent-based simulation of construction projects with HLA. , 2008, , .		3
150	Resource Performance Indicators in Controlling Industrial Steel Projects. , 2010, , .		3
151	Effective strategies for simulating one-of-a-kind construction projects. , 2012, , .		3
152	Utilizing simulation derived quantitative formulas for accurate excavator hauler fleet selection. , 2013, , .		3
153	Bi-level project simulation methodology to integrate superintendent and project manager in decision making: Shutdown/turnaround applications. , 2014, , .		3
154	BIM-based data mining approach to estimating job man-hour requirements in structural steel fabrication. , 2014, , .		3
155	Simulation case study: Modelling distinct breakdown events for a Tunnel Boring Machine excavation. , 2015, , .		3
156	A combined discrete-continuous simulation model for analyzing train-pedestrian interactions. , 2016, , .		3
157	Data-driven simulation-based model for planning roadway operation and maintenance projects. , 2017, , .		3
158	IMPROVING TUNNELING SIMULATION USING BAYESIAN UPDATING AND HIDDEN MARKOV CHAINS. , 2018, , .		3
159	Automation in Extraction and Sharing Information between BIM and Project Management Databases. , 2020, , .		3
160	A hybrid simulation approach for microtunneling construction planning. Construction Innovation, 2021, 21, 363-378.	2.7	3
161	Data-Driven Simulation Approach for Short-Term Planning of Winter Highway Maintenance Operations. Journal of Computing in Civil Engineering, 2021, 35, .	4.7	3
162	Integrating Process Simulation into Construction Engineering Education. European Journal of Engineering Education, 1994, 19, 51-67.	2.3	2

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163	An analytical method to predict soil types for underground construction operations. Civil Engineering and Environmental Systems, 2005, 22, 49-69.	0.9	2
164	Analyzing transit tunnel construction strategies using discrete event simulation. , 2011, , .		2
165	A Special Purpose Simulation Template for Modeling Tire Usage of Mining Truck Fleet. , 2012, , .		2
166	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
167	Methodology for Crew-Job Allocation Optimization in Project and Workface Scheduling. , 2015, , .		2
168	Fuzzy Cognitive Maps as a tool for modeling construction labor productivity. , 2015, , .		2
169	Using Combined Discrete-event/ Continuous Modeling for Simulation of Safety Incidents on Project Networks. , 2019, , .		2
170	Domain-specific risk assessment using integrated simulation: A case study of an onshore wind project. Canadian Journal of Civil Engineering, 0, , .	1.3	2
171	Simulation-Based Approach for Lookahead Scheduling of Onshore Wind Projects Subject to Weather Risk. Sustainability, 2021, 13, 10060.	3.2	2
172	Special Purpose Simulation Templates for Tunneling. , 2000, , 97.		1
173	A simulation template for modeling tunnel shaft construction. , 2008, , .		1
174	Meaningful Level of Change in hybrid simulation for construction analysis. , 2009, , .		1
175	An HLA-based bidding game with intelligent virtual player. , 2010, , .		1
176	Exploring the Effects of Context Level Factors on the Structural Steel Fabrication Shop Operation. , 2010, , .		1
177	Integrated Simulation-Based Look-Ahead Scheduling for Steel Fabrication Projects. , 2010, , .		1
178	Simulation of mobile falsework utilization methods in bridge construction. , 2012, , .		1
179	Structural Steel Fabrication Special Purpose Simulation. , 2012, , .		1
180	A prototype for project management game development using high level architecture. International Journal of Simulation and Process Modelling, 2014, 9, 131.	0.2	1

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181	Strategies for Optimizing Labor Resource Planning on Plant Shutdown and Turnaround. , 2014, , .		1
182	Material and facility layout planning in construction projects using simulation. , 2014, , .		1
183	Predictive and Diagnostic Analysis of Shield Cutter Head Failures in Tunnel Construction. , 2016, , .		1
184	Simulation-based analysis of operational efficiency and safety in a virtual environment. , 2016, , .		1
185	Evaluating the Impact of Motion Sensing Errors on Ergonomic Analysis. , 2016, , .		1
186	Reaction Time Optimization Based on Sensor Data-Driven Simulation for Snow Removal Projects. , 2018, , .		1
187	Enhanced Welding Operator Quality Performance Measurement: Work Experience-Integrated Bayesian Prior Determination. , 2019, , .		1
188	Simulation-based approach for risk assessment in onshore wind farm construction projects. , 2020, , .		1
189	Standardized Risk Analysis for Infrastructure Assessment. , 2008, , 131-140.		1
190	SIMULATION-BASED ANALYTICS: ADVANCING DECISION SUPPORT IN CONSTRUCTION. Proceedings of International Structural Engineering and Construction, 2018, 5, .	0.1	1
191	Integrated DEMATEL and ANP-Based Framework to Model Construction Labor Productivity. , 2022, , .		1
192	Discussion of â€œModeling Operational Activities in Objectâ€Oriented Simulationâ€•by Amr A. Oloufa (January 1993, Vol. 7, No. 1). Journal of Computing in Civil Engineering, 1994, 8, 392-395.	4.7	0
193	Adequate data collection frequency and gauging length for surface condition rating in Alberta. Canadian Journal of Civil Engineering, 2001, 28, 871-874.	1.3	0
194	SPS tools for capital project planning analysis. International Journal of Simulation and Process Modelling, 2010, 6, 58.	0.2	0
195	A Bayesian inference based simulation approach for estimating fraction nonconforming of pipe spool welding processes. , 2016, , .		0
196	A prototype for simulating the kinematics of crane rigging oscillatory motion using Simphony.NET. , 2016, , .		0
197	Post-Simulation Visualization of Construction Manual Operations Using Motion Capture Data. , 2017, , .		0
198	The University of Albertaâ€™s Hole School of Construction Engineering: 25 Years of Impact and Innovation. Journal of Construction Engineering and Management - ASCE, 2017, 143, 02517001.	3.8	0

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199	A Generic Simulation Model for Selecting Fleet Size in Snow Plowing Operations. , 2019, , .		0
200	Modelling hauler movement in a distributed simulation of earthmoving operations. International Journal of Service and Computing Oriented Manufacturing, 2016, 2, 226.	0.2	0
201	A Simulation-Based Decision-Support System for Reducing Duration, Cost, and Environmental Impacts of Earthmoving Operations. , 2020, , .		0
202	A Predictive Simulation Model of Regional Weather Events for Winter Road Maintenance Operations. , 2020, , .		0
203	A simulation-based decision support tool for integrating site layout and construction planning of tunneling projects. Journal of Engineering, Design and Technology, 2021, ahead-of-print, .	1.7	0
204	Enhanced Resource Scheduling Framework For Industrial Construction Projects. , 2021, , .		0
205	Dynamic, Data-Driven Simulation In Construction Using Advanced Metadata Structures and Bayesian Inference. , 2021, , .		0