Ahmed Bouferguene

List of Publications by Year
in descending order

64 papers	1,216 citations	331259 21 h-index	395343 33 g-index
64 all docs	64 docs citations	64 times ranked	845 citing authors

#	ARTICLE	IF	CITATIONS
1	Data Mining Algorithms for Water Main Condition Prediction—Comparative Analysis. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	8
2	Generative systems in the architecture, engineering and construction industry: A systematic review and analysis. International Journal of Architectural Computing, 2021, 19, 226-249.	0.9	17
3	Automation for sewer pipe assessment: CCTV video interpretation algorithm and sewer pipe video assessment (SPVA) system development. Automation in Construction, 2021, 125, 103622.	4.8	17
4	4D-based automation of heavy lift planning in industrial construction projects. Canadian Journal of Civil Engineering, 2021, 48, 1115-1129.	0.7	6
5	Framework for target cost modelling in construction projects. International Journal of Construction Management, 2020, 20, 89-104.	2.2	12
6	A framework for value visualization in the construction industry to support value-oriented design. Canadian Journal of Civil Engineering, 2020, 47, 833-845.	0.7	1
7	Spatial Analysis Framework for Age-Restricted Communities Integrating Spatial Distribution and Accessibility Evaluation. Journal of the Urban Planning and Development Division, ASCE, 2020, 146, .	0.8	15
8	A deep learning-based framework for an automated defect detection system for sewer pipes. Automation in Construction, 2020, 109, 102967.	4.8	146
9	Bilevel Decision-Support Model for Bus-Route Optimization and Accessibility Improvement for Seniors. Journal of Computing in Civil Engineering, 2020, 34, .	2.5	4
10	Process-Oriented Framework to Improve Modular and Offsite Construction Manufacturing Performance. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	37
11	Industrial pipelines data generator. Data in Brief, 2020, 32, 106275.	0.5	1
12	Data-Driven Sewer Pipe Data Random Generation and Validation. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	2.0	2
13	An agent-based simulation framework for analysing fall risk among older adults in the evacuation procedures. Safety Science, 2020, 129, 104790.	2.6	15
14	Data-driven bi-level sewer pipe deterioration model: Design and analysis. Automation in Construction, 2020, 116, 103181.	4.8	23
15	Data-Driven Framework for Modeling Productivity of Closed-Circuit Television Recording Process for Sewer Pipes. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020093.	2.0	1
16	Automated rigging design for heavy industrial lifts. Automation in Construction, 2020, 112, 103083.	4.8	2
17	Explore the application of reinforced learning to support decision making during the design phase in the construction industry. Procedia Manufacturing, 2020, 42, 181-187.	1.9	4
18	An Optimization Model for Bus Route Redesign Considering Accessibility Improvement for Seniors. , 2020, , .		0

#	Article	IF	Citations
19	Demand-Dependent Inventory Management System for an Offsite Construction Facility. , 2020, , .		2
20	Difference analysis of regional population ageing from temporal and spatial perspectives: a case study in China. Regional Studies, 2019, 53, 849-860.	2.5	25
21	Novel Approach to Overcoming Discontinuity in Knowledge: Application in Value-Adding Frameworks in Construction Industry. Journal of Construction Engineering and Management - ASCE, 2019, 145, .	2.0	4
22	The application of multi-attribute utility theory for a market share-based design evaluation. International Journal of Housing Markets and Analysis, 2019, 12, 985-1003.	0.7	5
23	A multi-criteria lifecycle assessment framework for evaluating building systems design. Journal of Building Engineering, 2019, 23, 388-402.	1.6	13
24	On-site Assembly of Modular Building Using Discrete Event Simulation. , 2019, , .		3
25	Assessing accessibility-based service effectiveness (ABSEV) and social equity for urban bus transit: A sustainability perspective. Sustainable Cities and Society, 2019, 44, 499-510.	5.1	34
26	A BIM-based automation of design and drafting for manufacturing of wood panels for modular residential buildings. International Journal of Construction Management, 2019, 19, 187-205.	2.2	39
27	Automated Mathematical-Based Design Framework for The Selection of Rigging Configuration. , 2019, , .		1
28	BIM-based automated design and planning for boarding of light-frame residential buildings. Automation in Construction, 2018, 89, 235-249.	4.8	56
29	An integrated decision support model for selecting the most feasible crane at heavy construction sites. Automation in Construction, 2018, 87, 188-200.	4.8	31
30	Analytic Hierarchy Processâ€"Simulation Framework for Lighting Maintenance Decision-Making Based on the Clustered Network. Journal of Performance of Constructed Facilities, 2018, 32, .	1.0	12
31	Integrated production planning and control system for a panelized home prefabrication facility using simulation and RFID. Automation in Construction, 2018, 85, 369-383.	4.8	104
32	MULTI-AGENT BASED SIMULATION OF ELDERLY EGRESS PROCESS AND FALL ACCIDENT IN SENIOR APARTMENT BUILDINGS. , 2018, , .		2
33	Improved Target-Value Design Approach through the Integration of Environmental Performance and Reliability Theory. , 2018, , .		1
34	Spatial gaps in urban public transport supply and demand from the perspective of sustainability. Journal of Cleaner Production, 2018, 195, 1237-1248.	4.6	43
35	Improving the productivity of drainage operations activities through schedule optimisation. Urban Water Journal, 2017, 14, 298-306.	1.0	4
36	3D-Based Crane Evaluation System for Mobile Crane Operation Selection on Modular-Based Heavy Construction Sites. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	2.0	41

#	Article	IF	Citations
37	Random Generation of Complex Data Structures for the Simulation of Construction Operations. , 2016, , .		1
38	Heavy lift analysis at FEED stage for industrial project. , 2016, , .		0
39	3D Visualization-Based Motion Planning of Mobile Crane Operations in Heavy Industrial Projects. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	23
40	Framework for Modeling On-Site Productivity of Preventive Maintenance Activities for Wastewater Collection Systems. Journal of Infrastructure Systems, 2015, 21, 04015003.	1.0	3
41	Utilization of 3D Visualization of Mobile Crane Operations for Modular Construction On-Site Assembly. Journal of Management in Engineering - ASCE, 2015, 31, .	2.6	56
42	From AutoCAD to 3ds Max: An automated approach for animating heavy lifting studies. Canadian Journal of Civil Engineering, 2015, 42, 190-198.	0.7	26
43	Algorithm for Mobile Crane Walking Path Planning in Congested Industrial Plants. Journal of Construction Engineering and Management - ASCE, 2015, 141, .	2.0	32
44	Automated generation of shop drawings in residential construction. Automation in Construction, 2015, 55, 15-24.	4.8	31
45	Evolution of the crane selection and on-site utilization process for modular construction multilifts. Automation in Construction, 2014, 43, 59-72.	4.8	59
46	Automating motion trajectory Of crane-lifted loads. Automation in Construction, 2014, 45, 178-186.	4.8	33
47	Productivity and CO_2 emission analysis for tower crane utilization on high-rise building projects. Automation in Construction, 2013, 31, 255-264.	4.8	38
48	Innovative System for Off-the-Ground Rotation of Long Objects Using Mobile Cranes. Journal of Construction Engineering and Management - ASCE, 2011, 137, 478-485.	2.0	8
49	Combinatorial Algorithm for Optimizing Wood Waste in Framing Designs. Journal of Construction Engineering and Management - ASCE, 2011, 137, 188-197.	2.0	8
50	Artificial Neural Network Model for Cost Estimation: City of Edmonton's Water and Sewer Installation Services. Journal of Construction Engineering and Management - ASCE, 2010, 136, 745-756.	2.0	34
51	Strategies for an efficient implementation of the Gauss–Bessel quadrature for the evaluation of multicenter integral over STFs. Journal of Computational Chemistry, 2008, 29, 934-944.	1.5	0
52	Municipal Infrastructure Asset Levels of Service Assessment for Investment Decisions Using Analytic Hierarchy Process. Journal of Infrastructure Systems, 2008, 14, 193-200.	1.0	23
53	Nonlinear transformation methods for accelerating the convergence of Coulomb integrals over exponential type functions. Theoretical Chemistry Accounts, 2007, 117, 213-222.	0.5	7
54	Symbolic programming language in molecular multicenter integral problem. International Journal of Quantum Chemistry, 2006, 106, 65-78.	1.0	6

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55	Extrapolation methods for improving convergence of spherical Bessel integrals for the two-center Coulomb integrals. International Journal of Quantum Chemistry, 2006, 106, 2318-2323.	1.0	1
56	Gaussâ€"Bessel quadrature: A tool for the evaluation of Barnettâ€"Coulson/LÃ¶wdin functions. International Journal of Quantum Chemistry, 2006, 106, 2398-2407.	1.0	3
57	A complexity analysis of the Gaussâ€"Bessel quadrature as applied to the evaluation of multi-centre integrals over STFs. Journal of Physics A, 2006, 39, 499-511.	1.6	2
58	Addition theorem of Slater type orbitals: a numerical evaluation of Barnettâ€"Coulson/LÃ¶wdin functions. Journal of Physics A, 2005, 38, 2899-2916.	1.6	21
59	A new Gauss quadrature for multicentre integrals over STOs in the Gaussian integral transform approach. Journal of Physics A, 2005, 38, 3923-3935.	1.6	4
60	Visualization of electronic and vibrational polarizabilities and hyperpolarizabilities. International Journal of Quantum Chemistry, 2000, 78, 348-377.	1.0	10
61	Addition theorem of Slater-type orbitals: Application to H_2^+ in a strong magnetic field. Physical Review E, 1999, 59, 2412-2423.	0.8	10
62	Calculations on diatomic molecules with Slater-type orbital basis sets. International Journal of Quantum Chemistry, 1998, 70, 89-93.	1.0	9
63	Convergence analysis of the addition theorem of Slater orbitals and its application to three-center nuclear attraction integrals. Journal of Chemical Physics, 1998, 109, 5718-5729.	1.2	37
64	The use of reinforced learning to support multidisciplinary design in the AEC industry: Assessing the utilization of Markov Decision Process. International Journal of Architectural Computing, 0, , 147807712110699.	0.9	0