

Ahmed Bouferguene

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,216
citations

331538

21
h-index

395590

33
g-index

64
all docs

64
docs citations

64
times ranked

845
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | A deep learning-based framework for an automated defect detection system for sewer pipes. Automation in Construction, 2020, 109, 102967. | 4.8 | 146 |
| 2 | 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 |
| 3 | Evolution of the crane selection and on-site utilization process for modular construction multilifts. Automation in Construction, 2014, 43, 59-72. | 4.8 | 59 |
| 4 | 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 |
| 5 | BIM-based automated design and planning for boarding of light-frame residential buildings. Automation in Construction, 2018, 89, 235-249. | 4.8 | 56 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Productivity and CO2 emission analysis for tower crane utilization on high-rise building projects. Automation in Construction, 2013, 31, 255-264. | 4.8 | 38 |
| 10 | 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 |
| 11 | Process-Oriented Framework to Improve Modular and Offsite Construction Manufacturing Performance. Journal of Construction Engineering and Management - ASCE, 2020, 146, . | 2.0 | 37 |
| 12 | 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 |
| 13 | 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 |
| 14 | Automating motion trajectory Of crane-lifted loads. Automation in Construction, 2014, 45, 178-186. | 4.8 | 33 |
| 15 | Algorithm for Mobile Crane Walking Path Planning in Congested Industrial Plants. Journal of Construction Engineering and Management - ASCE, 2015, 141, . | 2.0 | 32 |
| 16 | Automated generation of shop drawings in residential construction. Automation in Construction, 2015, 55, 15-24. | 4.8 | 31 |
| 17 | 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 |
| 18 | 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 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Difference analysis of regional population ageing from temporal and spatial perspectives: a case study in China. <i>Regional Studies</i> , 2019, 53, 849-860. | 2.5 | 25 |
| 20 | Municipal Infrastructure Asset Levels of Service Assessment for Investment Decisions Using Analytic Hierarchy Process. <i>Journal of Infrastructure Systems</i> , 2008, 14, 193-200. | 1.0 | 23 |
| 21 | 3D Visualization-Based Motion Planning of Mobile Crane Operations in Heavy Industrial Projects. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, . | 2.5 | 23 |
| 22 | Data-driven bi-level sewer pipe deterioration model: Design and analysis. <i>Automation in Construction</i> , 2020, 116, 103181. | 4.8 | 23 |
| 23 | Addition theorem of Slater type orbitals: a numerical evaluation of Barnett's Coulson/Lindin functions. <i>Journal of Physics A</i> , 2005, 38, 2899-2916. | 1.6 | 21 |
| 24 | Generative systems in the architecture, engineering and construction industry: A systematic review and analysis. <i>International Journal of Architectural Computing</i> , 2021, 19, 226-249. | 0.9 | 17 |
| 25 | Automation for sewer pipe assessment: CCTV video interpretation algorithm and sewer pipe video assessment (SPVA) system development. <i>Automation in Construction</i> , 2021, 125, 103622. | 4.8 | 17 |
| 26 | Spatial Analysis Framework for Age-Restricted Communities Integrating Spatial Distribution and Accessibility Evaluation. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2020, 146, . | 0.8 | 15 |
| 27 | An agent-based simulation framework for analysing fall risk among older adults in the evacuation procedures. <i>Safety Science</i> , 2020, 129, 104790. | 2.6 | 15 |
| 28 | A multi-criteria lifecycle assessment framework for evaluating building systems design. <i>Journal of Building Engineering</i> , 2019, 23, 388-402. | 1.6 | 13 |
| 29 | Analytic Hierarchy Process's Simulation Framework for Lighting Maintenance Decision-Making Based on the Clustered Network. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, . | 1.0 | 12 |
| 30 | Framework for target cost modelling in construction projects. <i>International Journal of Construction Management</i> , 2020, 20, 89-104. | 2.2 | 12 |
| 31 | Addition theorem of Slater-type orbitals: Application to H ₂ ⁺ in a strong magnetic field. <i>Physical Review E</i> , 1999, 59, 2412-2423. | 0.8 | 10 |
| 32 | Visualization of electronic and vibrational polarizabilities and hyperpolarizabilities. <i>International Journal of Quantum Chemistry</i> , 2000, 78, 348-377. | 1.0 | 10 |
| 33 | Calculations on diatomic molecules with Slater-type orbital basis sets. <i>International Journal of Quantum Chemistry</i> , 1998, 70, 89-93. | 1.0 | 9 |
| 34 | Innovative System for Off-the-Ground Rotation of Long Objects Using Mobile Cranes. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011, 137, 478-485. | 2.0 | 8 |
| 35 | Combinatorial Algorithm for Optimizing Wood Waste in Framing Designs. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011, 137, 188-197. | 2.0 | 8 |
| 36 | Data Mining Algorithms for Water Main Condition Prediction's Comparative Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, . | 1.3 | 8 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Nonlinear transformation methods for accelerating the convergence of Coulomb integrals over exponential type functions. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 213-222. | 0.5 | 7 |
| 38 | Symbolic programming language in molecular multicenter integral problem. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 65-78. | 1.0 | 6 |
| 39 | 4D-based automation of heavy lift planning in industrial construction projects. <i>Canadian Journal of Civil Engineering</i> , 2021, 48, 1115-1129. | 0.7 | 6 |
| 40 | The application of multi-attribute utility theory for a market share-based design evaluation. <i>International Journal of Housing Markets and Analysis</i> , 2019, 12, 985-1003. | 0.7 | 5 |
| 41 | A new Gauss quadrature for multicentre integrals over STOs in the Gaussian integral transform approach. <i>Journal of Physics A</i> , 2005, 38, 3923-3935. | 1.6 | 4 |
| 42 | Improving the productivity of drainage operations activities through schedule optimisation. <i>Urban Water Journal</i> , 2017, 14, 298-306. | 1.0 | 4 |
| 43 | Novel Approach to Overcoming Discontinuity in Knowledge: Application in Value-Adding Frameworks in Construction Industry. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, . | 2.0 | 4 |
| 44 | Bilevel Decision-Support Model for Bus-Route Optimization and Accessibility Improvement for Seniors. <i>Journal of Computing in Civil Engineering</i> , 2020, 34, . | 2.5 | 4 |
| 45 | Explore the application of reinforced learning to support decision making during the design phase in the construction industry. <i>Procedia Manufacturing</i> , 2020, 42, 181-187. | 1.9 | 4 |
| 46 | Gaussâ€“Bessel quadrature: A tool for the evaluation of Barnettâ€“Coulson/LÃ¶wdin functions. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2398-2407. | 1.0 | 3 |
| 47 | Framework for Modeling On-Site Productivity of Preventive Maintenance Activities for Wastewater Collection Systems. <i>Journal of Infrastructure Systems</i> , 2015, 21, 04015003. | 1.0 | 3 |
| 48 | On-site Assembly of Modular Building Using Discrete Event Simulation. , 2019, , . | | 3 |
| 49 | A complexity analysis of the Gaussâ€“Bessel quadrature as applied to the evaluation of multi-centre integrals over STFs. <i>Journal of Physics A</i> , 2006, 39, 499-511. | 1.6 | 2 |
| 50 | MULTI-AGENT BASED SIMULATION OF ELDERLY EGRESS PROCESS AND FALL ACCIDENT IN SENIOR APARTMENT BUILDINGS. , 2018, , . | | 2 |
| 51 | Data-Driven Sewer Pipe Data Random Generation and Validation. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, . | 2.0 | 2 |
| 52 | Automated rigging design for heavy industrial lifts. <i>Automation in Construction</i> , 2020, 112, 103083. | 4.8 | 2 |
| 53 | Demand-Dependent Inventory Management System for an Offsite Construction Facility. , 2020, , . | | 2 |
| 54 | Extrapolation methods for improving convergence of spherical Bessel integrals for the two-center Coulomb integrals. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2318-2323. | 1.0 | 1 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Random Generation of Complex Data Structures for the Simulation of Construction Operations. , 2016, , . | | 1 |
| 56 | Improved Target-Value Design Approach through the Integration of Environmental Performance and Reliability Theory. , 2018, , . | | 1 |
| 57 | 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 |
| 58 | Industrial pipelines data generator. Data in Brief, 2020, 32, 106275. | 0.5 | 1 |
| 59 | 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 |
| 60 | Automated Mathematical-Based Design Framework for The Selection of Rigging Configuration. , 2019, , . | | 1 |
| 61 | Strategies for an efficient implementation of the Gaussâ€Bessel quadrature for the evaluation of multicenter integral over STFs. Journal of Computational Chemistry, 2008, 29, 934-944. | 1.5 | 0 |
| 62 | Heavy lift analysis at FEED stage for industrial project. , 2016, , . | | 0 |
| 63 | An Optimization Model for Bus Route Redesign Considering Accessibility Improvement for Seniors. , 2020, , . | | 0 |
| 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 |