

Mehrdad Arashpour

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,030
citations

186209

28
h-index

175177

52
g-index

80
all docs

80
docs citations

80
times ranked

1733
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Predicting the construction labour productivity using artificial neural network and grasshopper optimisation algorithm. <i>International Journal of Construction Management</i> , 2023, 23, 763-779. | 2.2 | 11 |
| 2 | Hybrid bi-objective economic lot scheduling problem with feasible production plan equipped with an efficient adjunct search technique. <i>International Journal of Systems Science: Operations and Logistics</i> , 2023, 10, . | 2.0 | 5 |
| 3 | Predicting delays in prefabricated projects: SD-BP neural network to define effects of risk disruption. <i>Engineering, Construction and Architectural Management</i> , 2022, 29, 1753-1776. | 1.8 | 12 |
| 4 | Quantitative Analysis of Safety Risks and Relationship with Delayed Project Completion Times. <i>Risk Analysis</i> , 2022, 42, 580-591. | 1.5 | 7 |
| 5 | A Bayesian smoothing for input-state estimation of structural systems. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 317-334. | 6.3 | 11 |
| 6 | Behavior and design of thin-walled double-skin concrete-filled rectangular steel tubular short and slender columns with external stainless-steel tube incorporating local buckling effects. <i>Thin-Walled Structures</i> , 2022, 170, 108552. | 2.7 | 8 |
| 7 | The Cost Burden of Safety Risk Incidents on Construction: A Probabilistic Quantification Method. <i>Risk Analysis</i> , 2022, 42, 2312-2326. | 1.5 | 3 |
| 8 | Simulation-based analysis of occupational health and safety continuous improvement (OHSCI) in modern construction and infrastructure industries. <i>Automation in Construction</i> , 2022, 134, 104058. | 4.8 | 3 |
| 9 | Machine learning-based analysis of occupant-centric aspects: Critical elements in the energy consumption of residential buildings. <i>Journal of Building Engineering</i> , 2022, 46, 103846. | 1.6 | 9 |
| 10 | Vision-based excavator pose estimation using synthetically generated datasets with domain randomization. <i>Automation in Construction</i> , 2022, 134, 104089. | 4.8 | 29 |
| 11 | Predicting the compressive strength of green concretes using Harris hawks optimization-based data-driven methods. <i>Construction and Building Materials</i> , 2022, 318, 125944. | 3.2 | 20 |
| 12 | 3D point cloud data processing with machine learning for construction and infrastructure applications: A comprehensive review. <i>Advanced Engineering Informatics</i> , 2022, 51, 101501. | 4.0 | 64 |
| 13 | Investigating the Barriers to Applying the Internet-of-Things-Based Technologies to Construction Site Safety Management. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 868. | 1.2 | 16 |
| 14 | Comparative life cycle assessment of reprocessed plastics and commercial polymer modified asphalts. <i>Journal of Cleaner Production</i> , 2022, 337, 130464. | 4.6 | 17 |
| 15 | Computer vision for anatomical analysis of equipment in civil infrastructure projects: Theorizing the development of regression-based deep neural networks. <i>Automation in Construction</i> , 2022, 137, 104193. | 4.8 | 28 |
| 16 | Back-stepping control of delta parallel robots with smart dynamic model selection for construction applications. <i>Automation in Construction</i> , 2022, 137, 104211. | 4.8 | 12 |
| 17 | Multiskilled Workforce Planning: A Case from the Construction Industry. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, . | 2.0 | 5 |
| 18 | Worksite Accident Impacts on Construction and Infrastructure: Nondeterministic Analysis of Subsectors and Organization Sizes. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, . | 2.0 | 2 |

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|----|--|-----|-----------|
| 19 | Artificial Neural Network for Predicting Building Energy Performance: A Surrogate Energy Retrofits Decision Support Framework. <i>Buildings</i> , 2022, 12, 829. | 1.4 | 16 |
| 20 | Scene understanding in construction and buildings using image processing methods: A comprehensive review and a case study. <i>Journal of Building Engineering</i> , 2021, 33, 101672. | 1.6 | 42 |
| 21 | A review of building parameters' roles in conserving energy versus maintaining comfort. <i>Journal of Building Engineering</i> , 2021, 35, 102087. | 1.6 | 13 |
| 22 | Automatic far-field camera calibration for construction scene analysis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1073-1090. | 6.3 | 13 |
| 23 | Australia's push to make residential housing sustainable - Do end-users care?. <i>Habitat International</i> , 2021, 114, 102384. | 2.3 | 7 |
| 24 | Sustainable pavement construction: A systematic literature review of environmental and economic analysis of recycled materials. <i>Journal of Cleaner Production</i> , 2021, 313, 127936. | 4.6 | 44 |
| 25 | Novel metaheuristic-based type-2 fuzzy inference system for predicting the compressive strength of recycled aggregate concrete. <i>Journal of Cleaner Production</i> , 2021, 320, 128771. | 4.6 | 21 |
| 26 | Green mix design of rubbercrete using machine learning-based ensemble model and constrained multi-objective optimization. <i>Journal of Cleaner Production</i> , 2021, 327, 129518. | 4.6 | 17 |
| 27 | Performance-based control of variability and tolerance in off-site manufacture and assembly: optimization of penalty on poor production quality. <i>Construction Management and Economics</i> , 2020, 38, 502-514. | 1.8 | 41 |
| 28 | A simulation model for investigation of operation of elevator's up-peak. <i>Journal of Simulation</i> , 2020, 14, 229-238. | 1.0 | 0 |
| 29 | Predicting the compressive strength of normal and High-Performance Concretes using ANN and ANFIS hybridized with Grey Wolf Optimizer. <i>Construction and Building Materials</i> , 2020, 232, 117266. | 3.2 | 289 |
| 30 | Collaborative Scheduling of On-Site and Off-Site Operations in Prefabrication. <i>Sustainability</i> , 2020, 12, 9266. | 1.6 | 20 |
| 31 | Recursive principal component analysis for model order reduction with application in nonlinear Bayesian filtering. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 371, 113334. | 3.4 | 7 |
| 32 | An integrated review of automation and robotic technologies for structural prefabrication and construction. <i>Transportation Safety and Environment</i> , 2020, 2, 81-96. | 1.1 | 28 |
| 33 | Sensor-based safety management. <i>Automation in Construction</i> , 2020, 113, 103128. | 4.8 | 78 |
| 34 | Evaluating the Impact of Building Information Modeling on the Labor Productivity of Construction Projects in Malaysia. <i>Buildings</i> , 2020, 10, 66. | 1.4 | 21 |
| 35 | Safety management in construction: 20 years of risk modeling. <i>Safety Science</i> , 2020, 129, 104805. | 2.6 | 29 |
| 36 | An analysis of 4D-BIM Construction Planning: Advantages, Risks and Challenges. , 2020, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A Critical Review of Machine Vision Applications in Construction. , 2020, , . | | 1 |
| 38 | Constructible Design for Off-site Prefabricated Structures in Industrial Environments: Review of Mixed Reality Applications. , 2020, , . | | 2 |
| 39 | Applications of Building Information Modeling (BIM) in Disaster Resilience: Present Status and Future Trends. , 2020, , . | | 4 |
| 40 | Group Dynamics in Higher Education. Advances in Educational Technologies and Instructional Design Book Series, 2020, , 42-60. | 0.2 | 4 |
| 41 | Using BIM for multi-trade prefabrication in construction. , 2020, , 209-221. | | 1 |
| 42 | Skill Set Configuration in Prefabricated Construction: Hybrid Optimization and Multicriteria Decision-Making Approach. Journal of Construction Engineering and Management - ASCE, 2019, 145, . | 2.0 | 25 |
| 43 | Lean Methodologies and Techniques for Modular Construction: Chronological and Critical Review. Journal of Construction Engineering and Management - ASCE, 2019, 145, . | 2.0 | 97 |
| 44 | Optimal Work Assignment to Multiskilled Resources in Prefabricated Construction. Journal of Construction Engineering and Management - ASCE, 2019, 145, . | 2.0 | 34 |
| 45 | The Less Agents, the More Schedule Reliability: Examination of Single-Point Responsibility Model in Design Management. International Journal of Civil Engineering, 2019, 17, 1307-1316. | 0.9 | 4 |
| 46 | Barriers to the use of integrated project delivery (IPD): a quantified model for Malaysia. Engineering, Construction and Architectural Management, 2019, 27, 186-204. | 1.8 | 34 |
| 47 | Critical Literature Review of Labor Multiskilling in Construction. Journal of Construction Engineering and Management - ASCE, 2019, 145, . | 2.0 | 22 |
| 48 | OPTIMISING COLLABORATIVE LEARNING AND GROUP WORK AMONGST TERTIARY STUDENTS. Proceedings of International Structural Engineering and Construction, 2019, 6, . | 0.1 | 5 |
| 49 | Process Modelling in Civil Infrastructure Projects: A Review of Construction Simulation Methods. , 2019, , . | | 4 |
| 50 | Critical evaluation of off-site construction research: A Scientometric analysis. Automation in Construction, 2018, 87, 235-247. | 4.8 | 406 |
| 51 | A qualitative investigation of perceived impacts of virtuality on effectiveness of hybrid construction project teams. Construction Innovation, 2018, 18, 109-131. | 1.5 | 5 |
| 52 | Collaborative Role of Sociotechnical Components in BIM-Based Construction Networks in Two Hospitals. Journal of Management in Engineering - ASCE, 2018, 34, . | 2.6 | 40 |
| 53 | Optimal process integration architectures in off-site construction: Theorizing the use of multi-skilled resources. Architectural Engineering and Design Management, 2018, 14, 46-59. | 1.2 | 40 |
| 54 | Analysis of Citation Networks in Building Information Modeling Research. Journal of Construction Engineering and Management - ASCE, 2018, 144, . | 2.0 | 93 |

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|----|---|-----|-----------|
| 55 | Viability of the BIM Manager Enduring as a Distinct Role: Association Rule Mining of Job Advertisements. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, . | 2.0 | 35 |
| 56 | Optimization modeling of multi-skilled resources in prefabrication: Theorizing cost analysis of process integration in off-site construction. <i>Automation in Construction</i> , 2018, 95, 1-9. | 4.8 | 85 |
| 57 | Assessing the Influence of Virtuality on the Effectiveness of Engineering Project Networks: â€œBig Five Theoryâ€-Perspective. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, . | 2.0 | 13 |
| 58 | The evolution of stakeholder management practices in Australian mega construction projects. <i>Engineering, Construction and Architectural Management</i> , 2018, 25, 690-706. | 1.8 | 36 |
| 59 | Project Production Flows in Off-Site Prefabrication: BIM-Enabled Railway Infrastructure. , 2018, , . | | 3 |
| 60 | Design for Manufacture and Assembly in Off-Site Construction: Advanced Production of Modular Façade Systems. , 2018, , . | | 8 |
| 61 | Multiskilled Human Resource Problem in Off-Site Construction. , 2018, , . | | 3 |
| 62 | Integrated management of on-site, coordination and off-site uncertainty: Theorizing risk analysis within a hybrid project setting. <i>International Journal of Project Management</i> , 2017, 35, 647-655. | 2.7 | 68 |
| 63 | An integrated model for factors affecting construction and demolition waste management in Iran. <i>Engineering, Construction and Architectural Management</i> , 2017, 24, 1246-1268. | 1.8 | 46 |
| 64 | Sustainability by Information and Communication Technology: A paradigm shift for construction projects in Iran. <i>Journal of Cleaner Production</i> , 2017, 168, 1-13. | 4.6 | 28 |
| 65 | Optimizing decisions in advanced manufacturing of prefabricated products: Theorizing supply chain configurations in off-site construction. <i>Automation in Construction</i> , 2017, 84, 146-153. | 4.8 | 81 |
| 66 | Collaboration in BIM-based construction networks: A bibliometric-qualitative literature review. <i>International Journal of Project Management</i> , 2017, 35, 1288-1301. | 2.7 | 262 |
| 67 | Critical success factors for implementing risk management systems in developing countries. <i>Construction Economics and Building</i> , 2016, 16, 18-32. | 0.5 | 21 |
| 68 | Enhancing collaboration in BIM-based construction networks through organisational discontinuity theory: a case study of the new Royal Adelaide Hospital. <i>Architectural Engineering and Design Management</i> , 2016, 12, 333-352. | 1.2 | 64 |
| 69 | Off-site construction optimization: Sequencing multiple job classes with time constraints. <i>Automation in Construction</i> , 2016, 71, 262-270. | 4.8 | 89 |
| 70 | Analysis of interacting uncertainties in on-site and off-site activities: Implications for hybrid construction. <i>International Journal of Project Management</i> , 2016, 34, 1393-1402. | 2.7 | 81 |
| 71 | Quantitative Analysis of Rate-Driven and Due Date-Driven Construction: Production Efficiency, Supervision, and Controllability in Residential Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016, 142, . | 2.0 | 16 |
| 72 | Valuing the contribution of knowledge-oriented workers to projects: a merit based approach in the construction industry. <i>Construction Economics and Building</i> , 2015, 12, 1-12. | 0.5 | 14 |

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|----|--|-----|-----------|
| 73 | Analysis of Workflow Variability and Its Impacts on Productivity and Performance in Construction of Multistory Buildings. <i>Journal of Management in Engineering - ASCE</i> , 2015, 31, . | 2.6 | 49 |
| 74 | Application of Nonlinear-Autoregressive-Exogenous model to predict the hysteretic behaviour of passive control systems. <i>Engineering Structures</i> , 2015, 85, 1-10. | 2.6 | 33 |
| 75 | Optimization of process integration and multi-skilled resource utilization in off-site construction. <i>Automation in Construction</i> , 2015, 50, 72-80. | 4.8 | 88 |
| 76 | Autonomous production tracking for augmenting output in off-site construction. <i>Automation in Construction</i> , 2015, 53, 13-21. | 4.8 | 60 |
| 77 | Analysis of Disruptions Caused by Construction Field Rework on Productivity in Residential Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014, 140, . | 2.0 | 36 |
| 78 | Framework for improving workflow stability: deployment of optimized capacity buffers in a synchronized construction production. <i>Canadian Journal of Civil Engineering</i> , 2014, 41, 995-1004. | 0.7 | 16 |
| 79 | A new approach for modelling variability in residential construction projects. <i>Construction Economics and Building</i> , 2013, 13, 83-92. | 0.5 | 18 |
| 80 | Role of Simulation in Construction Processes – Harmony in Capturing Resources. , 2012, , . | | 3 |