

Nashwan N Dawood

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,374
citations

361045

20
h-index

360668

35
g-index

66
all docs

66
docs citations

66
times ranked

1027
citing authors

#	ARTICLE	IF	CITATIONS
1	On-demand monitoring of construction projects through a game-like hybrid application of BIM and machine learning. Automation in Construction, 2020, 110, 103012.	4.8	151
2	Development of workspace conflict visualization system using 4D object of work schedule. Advanced Engineering Informatics, 2014, 28, 50-65.	4.0	104
3	BIM for facilities management: A framework and a common data environment using open standards. Automation in Construction, 2020, 120, 103366.	4.8	78
4	Construction Workspace Planning: Assignment and Analysis Utilizing 4D Visualization Technologies. Computer-Aided Civil and Infrastructure Engineering, 2006, 21, 498-513.	6.3	74
5	Development of automated communication of system for managing site information using internet technology. Automation in Construction, 2002, 11, 557-572.	4.8	65
6	Development of an integrated information resource base for 4D/VR construction processes simulation. Automation in Construction, 2003, 12, 123-131.	4.8	56
7	Estimating project and activity duration: a risk management approach using network analysis. Construction Management and Economics, 1998, 16, 41-48.	1.8	50
8	Developing Crew Allocation System for the Precast Industry Using Genetic Algorithms. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 581-595.	6.3	49
9	Construction workspace management within an Industry Foundation Class-Compliant 4D tool. Automation in Construction, 2015, 52, 42-58.	4.8	48
10	Cost-benefit analysis of BIM-enabled design clash detection and resolution. Construction Management and Economics, 2021, 39, 55-72.	1.8	48
11	Intelligence approach to production planning system for bespoke precast concrete products. Automation in Construction, 2006, 15, 737-745.	4.8	46
12	Flowshop scheduling model for bespoke precast concrete production planning. Construction Management and Economics, 2005, 23, 93-105.	1.8	41
13	Integrated BIM and DfMA parametric and algorithmic design based collaboration for supporting client engagement within offsite construction. Automation in Construction, 2022, 133, 104015.	4.8	39
14	BIM and 4D planning: a holistic study of the barriers and drivers to widespread adoption. Journal of Construction Engineering and Project Management, 2012, 2, 1-10.	0.6	38
15	Improving the energy performance of the built environment: The potential of virtual collaborative life cycle tools. Automation in Construction, 2011, 20, 205-216.	4.8	35
16	Load forecasting and dispatch optimisation for decentralised co-generation plant with dual energy storage. Applied Energy, 2017, 186, 304-320.	5.1	35
17	Designing low carbon buildings: A framework to reduce energy consumption and embed the use of renewables. Sustainable Cities and Society, 2013, 8, 63-71.	5.1	31
18	Energy profiling in the life cycle assessment of buildings. Management of Environmental Quality, 2010, 21, 20-31.	2.2	30

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19	Development of methodology and virtual system for optimised simulation of road design data. Automation in Construction, 2010, 19, 1000-1015.	4.8	27
20	Construction scheduling using multi-constraint and genetic algorithms approach. Construction Management and Economics, 2006, 24, 19-30.	1.8	25
21	Hierarchy based information requirements for sustainable operations of buildings in Qatar. Sustainable Cities and Society, 2017, 32, 435-448.	5.1	21
22	Optimal Dispatch of Aggregated HVAC Units for Demand Response: An Industry 4.0 Approach. Energies, 2019, 12, 4320.	1.6	20
23	Development of 4D-based performance indicators in construction industry. Engineering, Construction and Architectural Management, 2010, 17, 210-230.	1.8	19
24	An innovative approach for generation of a time location plan in road construction projects. Construction Management and Economics, 2011, 29, 435-448.	1.8	19
25	Development of 4D based performance indicators in construction industry. Engineering, Construction and Architectural Management, 2009, 16, 438-458.	1.8	18
26	Stockyard layout planning in precast concrete products industry: a case study and proposed framework. Construction Management and Economics, 2001, 19, 365-377.	1.8	16
27	Visualising urban energy use: the use of LiDAR and remote sensing data in urban energy planning. Visualization in Engineering, 2017, 5, .	8.8	16
28	An integrated bidding management expert system for the make-to-order precast industry. Construction Management and Economics, 1995, 13, 115-125.	1.8	15
29	An integrated knowledge-based/simulation approach to production planning: an application to the pre-cast industry. Construction Management and Economics, 1995, 13, 53-64.	1.8	14
30	Visualisation of a stockyard layout simulator "SimStock" a case study in precast concrete products industry. Automation in Construction, 2003, 12, 113-122.	4.8	14
31	BIM Adoption Issues in Infrastructure Construction Projects: Analysis and Solutions. Journal of Information Technology in Construction, 2021, 26, 263-285.	1.4	12
32	Combining Serious Games and 4D Modelling for Construction Health and Safety Training. , 2014, , .		10
33	On the Role of Regulatory Policy on the Business Case for Energy Storage in Both EU and UK Energy Systems: Barriers and Enablers. Energies, 2020, 13, 1080.	1.6	9
34	Developing a production management modelling approach for precast concrete building products. Construction Management and Economics, 1994, 12, 393-412.	1.8	8
35	A survey of current production planning practices in the precast concrete industry. Construction Management and Economics, 1990, 8, 365-383.	1.8	7
36	Simulation-based genetic algorithms for construction supply chain management: Off-site precast concrete production as a case study. OR Insight, 2012, 25, 165-184.	0.1	7

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37	Short-Term Prediction of Energy Consumption in Demand Response for Blocks of Buildings: DR-BoB Approach. Buildings, 2019, 9, 221.	1.4	7
38	Innovative managerial control system (IMCS): an application in precast concrete building products industry. Construction Innovation, 2006, 6, 97-120.	1.5	6
39	Machine Learning and Data Segmentation for Building Energy Use Prediction—A Comparative Study. Energies, 2021, 14, 5947.	1.6	6
40	Development of a visual whole life-cycle energy assessment framework for built environment. , 2009, , .		5
41	Development and Evaluation of a Tangible Terrain Representation System for Highway Route Planning. Computer-Aided Civil and Infrastructure Engineering, 2009, 24, 225-235.	6.3	5
42	Lifetime Degradation Cost Analysis for Li-Ion Batteries in Capacity Markets using Accurate Physics-Based Models. Energies, 2020, 13, 2816.	1.6	5
43	Integrating IFC and NLP for automating change request validations. Journal of Information Technology in Construction, 2019, 24, 540-552.	1.4	5
44	Guest editorial: Enabling the development and implementation of digital twins. Construction Innovation, 2022, 22, 405-411.	1.5	5
45	Forecasting the sales of precast concrete building products. Construction Management and Economics, 1993, 11, 81-98.	1.8	4
46	Development of a methodology for analysing and quantifying the impact of delay factors affecting construction projects. Journal of Construction Engineering and Project Management, 2012, 2, 17-29.	0.6	4
47	VR - Roadmap: A Vision for 2030 in the Built Environment. , 2009, , 259-277.		3
48	A decision support system for the selection of curtain wall systems at the design development stage. Construction Management and Economics, 0, , 1-15.	1.8	3
49	Simulation-based optimisation using simulated annealing for crew allocation in the precast industry. Architectural Engineering and Design Management, 2018, 14, 109-126.	1.2	3
50	A semantic common model for product data in the water industry. Journal of Information Technology in Construction, 2021, 26, 566-590.	1.4	3
51	Incorporating H&S into Design and Construction: The Case for Integrating Serious Games Engines Technologies and 4D Planning for Collaborative Work. Lecture Notes in Computer Science, 2012, , 255-263.	1.0	3
52	Bridging the gap between theory and practice for adopting meaningful collaborative BIM processes in infrastructure projects, utilising multi-criteria decision making (MCDM). Journal of Information Technology in Construction, 2021, 26, 783-811.	1.4	2
53	Special issue editorial - Construction 4.0: Established and emerging digital technologies within the construction industry. Journal of Information Technology in Construction, 2021, 26, 758-762.	1.4	2
54	Drivers for energy analysis towards a BIM-enabled information flow. Smart and Sustainable Built Environment, 2023, 12, 507-533.	2.2	2

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55	Application of Visualisation Tools in Project Management in Construction Industry: Innovation and Challenges. , 2007, , .		1
56	Using Genetic Algorithms to Improve Crew Allocation Process in Labour-Intensive Industries. , 2009, , .		1
57	Design for Ageing in Place in Isolated Contexts: A Methods Literature Review. Lecture Notes in Computer Science, 2021, , 74-87.	1.0	1
58	An integrated empirical analysis of UK rail industry's carbon assessment: An industry perspective. Case Studies on Transport Policy, 2022, 10, 315-330.	1.1	1
59	Application of Cost Benefits Analysis for the Implementation of Renewable Energy and Smart Solution Technologies: A Case Study of InteGRIDy Project. , 2021, 11, .		1
60	Verification and validation of a framework for collaborative BIM implementation, measurement and management (CIMM). Smart and Sustainable Built Environment, 2023, 12, 847-871.	2.2	1
61	Application of Multivariate Statistical Process Control Technique to Monitor and Control Construction Processes. , 2007, , 511.		0
62	Innovative managerial control system (IMCS): an application in precast concrete building products industry. Construction Innovation, 2006, 6, 97-120.	1.5	0
63	Principles and recommendations for client information requirements for BIM enabled construction projects in Qatar. International Journal of Product Lifecycle Management, 2016, 9, 198.	0.1	0
64	An overview of applications of renewable energy methods in the development of structural health monitoring systems. International Journal of Design Engineering, 2020, 9, 101.	0.3	0
65	KPI Evaluation Framework and Tools Performance: A Case Study from the inteGRIDy Project. Environmental Sciences Proceedings, 2021, 11, .	0.3	0