

Nashwan N Dawood

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58

papers

896

citations

18

h-index

28

g-index

66

ext. papers

1,098

ext. citations

4.7

avg, IF

4.73

L-index

#	Paper	IF	Citations
58	An Automated 4D BIM Model Development and Optimization 2023 , 159-180		
57	Integrated BIM and DfMA parametric and algorithmic design based collaboration for supporting client engagement within offsite construction. <i>Automation in Construction</i> , 2022 , 133, 104015	9.6	5
56	An integrated empirical analysis of UK rail industry carbon assessment: An industry perspective. <i>Case Studies on Transport Policy</i> , 2022 , 10, 315-330	2.7	0
55	Bridging the gap between theory and practice for adopting meaningful collaborative BIM processes in infrastructure projects, utilising multi-criteria decision making (MCDM). <i>Journal of Information Technology in Construction</i> , 2021 , 26, 783-811	2.5	0
54	Special issue editorial - Construction 4.0: Established and emerging digital technologies within the construction industry. <i>Journal of Information Technology in Construction</i> , 2021 , 26, 758-762	2.5	1
53	KPI Evaluation Framework and Tools Performance: A Case Study from the inteGRIDy Project. <i>Environmental Sciences Proceedings</i> , 2021 , 11, 23	1	
52	BIM Adoption Issues in Infrastructure Construction Projects: Analysis and Solutions. <i>Journal of Information Technology in Construction</i> , 2021 , 26, 263-285	2.5	5
51	Cost-benefit analysis of BIM-enabled design clash detection and resolution. <i>Construction Management and Economics</i> , 2021 , 39, 55-72	3	16
50	Design for Ageing in Place in Isolated Contexts: A Methods Literature Review. <i>Lecture Notes in Computer Science</i> , 2021 , 74-87	0.9	
49	A semantic common model for product data in the water industry. <i>Journal of Information Technology in Construction</i> , 2021 , 26, 566-590	2.5	0
48	Machine Learning and Data Segmentation for Building Energy Use Prediction: A Comparative Study. <i>Energies</i> , 2021 , 14, 5947	3.1	2
47	On the Role of Regulatory Policy on the Business Case for Energy Storage in Both EU and UK Energy Systems: Barriers and Enablers. <i>Energies</i> , 2020 , 13, 1080	3.1	6
46	Lifetime Degradation Cost Analysis for Li-Ion Batteries in Capacity Markets using Accurate Physics-Based Models. <i>Energies</i> , 2020 , 13, 2816	3.1	2
45	On-demand monitoring of construction projects through a game-like hybrid application of BIM and machine learning. <i>Automation in Construction</i> , 2020 , 110, 103012	9.6	75
44	BIM for facilities management: A framework and a common data environment using open standards. <i>Automation in Construction</i> , 2020 , 120, 103366	9.6	31
43	Short-Term Prediction of Energy Consumption in Demand Response for Blocks of Buildings: DR-BoB Approach. <i>Buildings</i> , 2019 , 9, 221	3.2	3
42	Integrating IFC and NLP for automating change request validations. <i>Journal of Information Technology in Construction</i> , 2019 , 24, 540-552	2.5	3

41	Optimal Dispatch of Aggregated HVAC Units for Demand Response: An Industry 4.0 Approach. <i>Energies</i> , 2019 , 12, 4320	3.1	13
40	Simulation-based optimisation using simulated annealing for crew allocation in the precast industry. <i>Architectural Engineering and Design Management</i> , 2018 , 14, 109-126	1.2	2
39	Load forecasting and dispatch optimisation for decentralised co-generation plant with dual energy storage. <i>Applied Energy</i> , 2017 , 186, 304-320	10.7	27
38	Hierarchy based information requirements for sustainable operations of buildings in Qatar. <i>Sustainable Cities and Society</i> , 2017 , 32, 435-448	10.1	14
37	Visualising urban energy use: the use of LiDAR and remote sensing data in urban energy planning. <i>Visualization in Engineering</i> , 2017 , 5,	3	9
36	Construction workspace management within an Industry Foundation Class-Compliant 4D tool. <i>Automation in Construction</i> , 2015 , 52, 42-58	9.6	34
35	Development of workspace conflict visualization system using 4D object of work schedule. <i>Advanced Engineering Informatics</i> , 2014 , 28, 50-65	7.4	75
34	Combining Serious Games and 4D Modelling for Construction Health and Safety Training 2014 ,		7
33	Designing low carbon buildings: A framework to reduce energy consumption and embed the use of renewables. <i>Sustainable Cities and Society</i> , 2013 , 8, 63-71	10.1	21
32	A decision support system for the selection of curtain wall systems at the design development stage. <i>Construction Management and Economics</i> , 2012 , 1-15	3	1
31	Simulation-based genetic algorithms for construction supply chain management: Off-site precast concrete production as a case study. <i>OR Insight</i> , 2012 , 25, 165-184		6
30	Development of a methodology for analysing and quantifying the impact of delay factors affecting construction projects. <i>Journal of Construction Engineering and Project Management</i> , 2012 , 2, 17-29		3
29	BIM and 4D planning: a holistic study of the barriers and drivers to widespread adoption. <i>Journal of Construction Engineering and Project Management</i> , 2012 , 2, 1-10		24
28	Incorporating H&S into Design and Construction: The Case for Integrating Serious Games Engines Technologies and 4D Planning for Collaborative Work. <i>Lecture Notes in Computer Science</i> , 2012 , 255-263 ^{0.9}		1
27	Improving the energy performance of the built environment: The potential of virtual collaborative life cycle tools. <i>Automation in Construction</i> , 2011 , 20, 205-216	9.6	27
26	An innovative approach for generation of a time location plan in road construction projects. <i>Construction Management and Economics</i> , 2011 , 29, 435-448	3	16
25	Developing Crew Allocation System for the Precast Industry Using Genetic Algorithms. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2010 , 25, 581-595	8.4	41
24	Development of 4D-based performance indicators in construction industry. <i>Engineering, Construction and Architectural Management</i> , 2010 , 17, 210-230	3.1	18

23	Energy profiling in the life-cycle assessment of buildings. <i>Management of Environmental Quality</i> , 2010 , 21, 20-31	3.6	23
22	Development of methodology and virtual system for optimised simulation of road design data. <i>Automation in Construction</i> , 2010 , 19, 1000-1015	9.6	19
21	Development of a visual whole life-cycle energy assessment framework for built environment 2009		4
20	Development and Evaluation of a Tangible Terrain Representation System for Highway Route Planning. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2009 , 24, 225-235	8.4	4
19	Development of 4D based performance indicators in construction industry. <i>Engineering, Construction and Architectural Management</i> , 2009 , 16, 438-458	3.1	10
18	Using Genetic Algorithms to Improve Crew Allocation Process in Labour-Intensive Industries 2009 ,		1
17	VR Roadmap: A Vision for 2030 in the Built Environment 2009 , 259-277		1
16	Application of Multivariate Statistical Process Control Technique to Monitor and Control Construction Processes 2007 , 511		
15	Innovative managerial control system (IMCS): an application in precast concrete building products industry. <i>Construction Innovation</i> , 2006 , 6, 97-120	4.1	5
14	Construction scheduling using multi-constraint and genetic algorithms approach. <i>Construction Management and Economics</i> , 2006 , 24, 19-30	3	23
13	Construction Workspace Planning: Assignment and Analysis Utilizing 4D Visualization Technologies. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2006 , 21, 498-513	8.4	59
12	Intelligence approach to production planning system for bespoke precast concrete products. <i>Automation in Construction</i> , 2006 , 15, 737-745	9.6	31
11	Flowshop scheduling model for bespoke precast concrete production planning. <i>Construction Management and Economics</i> , 2005 , 23, 93-105	3	23
10	Visualisation of a stockyard layout simulator BimStock a case study in precast concrete products industry. <i>Automation in Construction</i> , 2003 , 12, 113-122	9.6	13
9	Development of an integrated information resource base for 4D/VR construction processes simulation. <i>Automation in Construction</i> , 2003 , 12, 123-131	9.6	46
8	Development of automated communication of system for managing site information using internet technology. <i>Automation in Construction</i> , 2002 , 11, 557-572	9.6	48
7	Stockyard layout planning in precast concrete products industry: a case study and proposed framework. <i>Construction Management and Economics</i> , 2001 , 19, 365-377	3	12
6	Estimating project and activity duration: a risk management approach using network analysis. <i>Construction Management and Economics</i> , 1998 , 16, 41-48	3	44

5	An integrated bidding management expert system for the make-to-order precast industry. <i>Construction Management and Economics</i> , 1995 , 13, 115-125	3	12
4	An integrated knowledge-based/simulation approach to production planning: an application to the pre-cast industry. <i>Construction Management and Economics</i> , 1995 , 13, 53-64	3	12
3	Developing a production management modelling approach for precast concrete building products. <i>Construction Management and Economics</i> , 1994 , 12, 393-412	3	8
2	Forecasting the sales of precast concrete building products. <i>Construction Management and Economics</i> , 1993 , 11, 81-98	3	3
1	A survey of current production planning practices in the precast concrete industry. <i>Construction Management and Economics</i> , 1990 , 8, 365-383	3	7