Nashwan N Dawood

List of Publications by Citations

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	Development of workspace conflict visualization system using 4D object of work schedule. *Advanced Engineering Informatics*, **2014**, 28, 50-65	7.4	75
57	On-demand monitoring of construction projects through a game-like hybrid application of BIM and machine learning. *Automation in Construction*, **2020**, 110, 103012	9.6	75
56	Construction Workspace Planning: Assignment and Analysis Utilizing 4D Visualization Technologies. *Computer-Aided Civil and Infrastructure Engineering*, **2006**, 21, 498-513	8.4	59
55	Development of automated communication of system for managing site information using internet technology. *Automation in Construction*, **2002**, 11, 557-572	9.6	48
54	Development of an integrated information resource base for 4D/VR construction processes simulation. *Automation in Construction*, **2003**, 12, 123-131	9.6	46
53	Estimating project and activity duration: a risk management approach using network analysis. *Construction Management and Economics*, **1998**, 16, 41-48	3	44
52	Developing Crew Allocation System for the Precast Industry Using Genetic Algorithms. *Computer-Aided Civil and Infrastructure Engineering*, **2010**, 25, 581-595	8.4	41
51	Construction workspace management within an Industry Foundation Class-Compliant 4D tool. *Automation in Construction*, **2015**, 52, 42-58	9.6	34
50	Intelligence approach to production planning system for bespoke precast concrete products. *Automation in Construction*, **2006**, 15, 737-745	9.6	31
49	BIM for facilities management: A framework and a common data environment using open standards. *Automation in Construction*, **2020**, 120, 103366	9.6	31
48	Load forecasting and dispatch optimisation for decentralised co-generation plant with dual energy storage. *Applied Energy*, **2017**, 186, 304-320	10.7	27
47	Improving the energy performance of the built environment: The potential of virtual collaborative life cycle tools. *Automation in Construction*, **2011**, 20, 205-216	9.6	27
46	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		24
45	Energy profiling in the life-cycle assessment of buildings. *Management of Environmental Quality*, **2010**, 21, 20-31	3.6	23
44	Construction scheduling using multi-constraint and genetic algorithms approach. *Construction Management and Economics*, **2006**, 24, 19-30	3	23
43	Flowshop scheduling model for bespoke precast concrete production planning. *Construction Management and Economics*, **2005**, 23, 93-105	3	23
42	Designing low carbon buildings: A framework to reduce energy consumption and embed the use of renewables. *Sustainable Cities and Society*, **2013**, 8, 63-71	10.1	21

41	Development of methodology and virtual system for optimised simulation of road design data. *Automation in Construction*, **2010**, 19, 1000-1015	9.6	19
40	Development of 4D-based performance indicators in construction industry. *Engineering, Construction and Architectural Management*, **2010**, 17, 210-230	3.1	18
39	An innovative approach for generation of a time location plan in road construction projects. *Construction Management and Economics*, **2011**, 29, 435-448	3	16
38	Cost-benefit analysis of BIM-enabled design clash detection and resolution. *Construction Management and Economics*, **2021**, 39, 55-72	3	16
37	Hierarchy based information requirements for sustainable operations of buildings in Qatar. *Sustainable Cities and Society*, **2017**, 32, 435-448	10.1	14
36	Visualisation of a stockyard layout simulator BimStock a case study in precast concrete products industry. *Automation in Construction*, **2003**, 12, 113-122	9.6	13
35	Optimal Dispatch of Aggregated HVAC Units for Demand Response: An Industry 4.0 Approach. *Energies*, **2019**, 12, 4320	3.1	13
34	Stockyard layout planning in precast concrete products industry: a case study and proposed framework. *Construction Management and Economics*, **2001**, 19, 365-377	3	12
33	An integrated bidding management expert system for the make-to-order precast industry. *Construction Management and Economics*, **1995**, 13, 115-125	3	12
32	An integrated knowledge-based/simulation approach to production planning: an application to the pre-cast industry. *Construction Management and Economics*, **1995**, 13, 53-64	3	12
31	Development of 4D based performance indicators in construction industry. *Engineering, Construction and Architectural Management*, **2009**, 16, 438-458	3.1	10
30	Visualising urban energy use: the use of LiDAR and remote sensing data in urban energy planning. *Visualization in Engineering*, **2017**, 5,	3	9
29	Developing a production management modelling approach for precast concrete building products. *Construction Management and Economics*, **1994**, 12, 393-412	3	8
28	Combining Serious Games and 4D Modelling for Construction Health and Safety Training **2014**,		7
27	A survey of current production planning practices in the precast concrete industry. *Construction Management and Economics*, **1990**, 8, 365-383	3	7
26	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	3.1	6
25	Simulation-based genetic algorithms for construction supply chain management: Off-site precast concrete production as a case study. *OR Insight*, **2012**, 25, 165-184		6
24	Innovative managerial control system (IMCS): an application in precast concrete building products industry. *Construction Innovation*, **2006**, 6, 97-120	4.1	5

23	Integrated BIM and DfMA parametric and algorithmic design based collaboration for supporting client engagement within offsite construction. *Automation in Construction*, **2022**, 133, 104015	9.6	5
22	BIM Adoption Issues in Infrastructure Construction Projects: Analysis and Solutions. *Journal of Information Technology in Construction*, **2021**, 26, 263-285	2.5	5
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. *Computer-Aided Civil and Infrastructure Engineering*, **2009**, 24, 225-235	8.4	4
19	Short-Term Prediction of Energy Consumption in Demand Response for Blocks of Buildings: DR-BoB Approach. *Buildings*, **2019**, 9, 221	3.2	3
18	Forecasting the sales of precast concrete building products. *Construction Management and Economics*, **1993**, 11, 81-98	3	3
17	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		3
16	Integrating IFC and NLP for automating change request validations. *Journal of Information Technology in Construction*, **2019**, 24, 540-552	2.5	3
15	Lifetime Degradation Cost Analysis for Li-Ion Batteries in Capacity Markets using Accurate Physics-Based Models. *Energies*, **2020**, 13, 2816	3.1	2
14	Simulation-based optimisation using simulated annealing for crew allocation in the precast industry. *Architectural Engineering and Design Management*, **2018**, 14, 109-126	1.2	2
13	Machine Learning and Data Segmentation for Building Energy Use Prediction A Comparative Study. *Energies*, **2021**, 14, 5947	3.1	2
12	A decision support system for the selection of curtain wall systems at the design development stage. *Construction Management and Economics*, **2012**, 1-15	3	1
11	Using Genetic Algorithms to Improve Crew Allocation Process in Labour-Intensive Industries **2009**,		1
10	VR Roadmap: A Vision for 2030 in the Built Environment **2009**, 259-277		1
9	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	2.5	1
8	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	0.9	1
7	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	2.5	0
6	A semantic common model for product data in the water industry. *Journal of Information Technology in Construction*, **2021**, 26, 566-590	2.5	0

LIST OF PUBLICATIONS

5	An integrated empirical analysis of UK rail industry's carbon assessment: An industry perspective. *Case Studies on Transport Policy*, **2022**, 10, 315-330	2.7	0
4	Application of Multivariate Statistical Process Control Technique to Monitor and Control Construction Processes **2007**, 511		5
3	KPI Evaluation Framework and Tools Performance: A Case Study from the inteGRIDy Project. *Environmental Sciences Proceedings*, **2021**, 11, 23		1
2	Design for Ageing in Place in Isolated Contexts: A Methods Literature Review. *Lecture Notes in Computer Science*, **2021**, 74-87		0.9
1	An Automated 4D BIM Model Development and Optimization **2023**, 159-180		