Emad E Elbeltagi

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.

61 papers	1,926 citations	19 h-index	43 g-index
63 ext. papers	2,257 ext. citations	3.5 avg, IF	5.22 L-index

#	Paper	IF	Citations
61	Conceptual Profit Allocation Framework for Construction Joint Ventures: Shapley Value Approach. *Journal of Management in Engineering - ASCE*, **2021**, 37, 04021016	5.3	4
60	Simultaneous multi-criteria optimization for scheduling linear infrastructure projects. *International Journal of Construction Management*, **2021**, 21, 41-55	1.9	13
59	Solving Fuzzy Time□Cost Trade-Off in Construction Projects Using Linear Programming. *Journal of the Institution of Engineers (India): Series A*, **2021**, 102, 267-278	1	1
58	Sustainable building materials assessment and selection using system dynamics. *Journal of Building Engineering*, **2021**, 35, 101978	5.2	8
57	Assessment of optimal water distribution systems design under steady-state and transient conditions due to pipe roughness uncertainty. *Ain Shams Engineering Journal*, **2021**, 12, 465-473	4.4	1
56	A simplified pavement condition index regression model for pavement evaluation. *International Journal of Pavement Engineering*, **2021**, 22, 643-652	2.6	31
55	Current Applications of Game Theory in Construction Engineering and Management Research: A Social Network Analysis Approach. *Journal of Construction Engineering and Management - ASCE*, **2021**, 147, 04021066	4.2	8
54	Competency framework to integrate lean construction and integrated project delivery on construction megaprojects: towards a future of work global initiatives in multinational engineering organisations. *Benchmarking*, **2021**, ahead-of-print,	4	2
53	Predicting energy consumption for residential buildings using ANN through parametric modeling. *Energy Reports*, **2021**, 7, 2534-2545	4.6	11
52	Estimating the Dynamic Behavior of Highway Steel Plate Girder Bridges Using Real-Time Strain Measurements. *Applied Sciences (Switzerland)*, **2020**, 10, 4215	2.6	2
51	Pumping optimization of coastal aquifers using probabilistic search □ case study: Quaternary aquifer of El-Arish Rafah, Egypt **2020**, 51, 90-104		3
50	An Approach Based on Landsat Images for Shoreline Monitoring to Support Integrated Coastal Management□A Case Study, Ezbet Elborg, Nile Delta, Egypt. *ISPRS International Journal of Geo-Information*, **2020**, 9, 199	2.9	14
49	Service-Life Evaluation of Existing Bridges Subjected to Static and Moving Trucks Using Structural Health Monitoring System: Case Study. *KSCE Journal of Civil Engineering*, **2020**, 24, 1593-1606	1.9	7
48	A modified pavement condition rating index for flexible pavement evaluation in Egypt. *Innovative Infrastructure Solutions*, **2020**, 5, 1	2.3	1
47	A Cooperative Game Theoretic Model for Revenue Sharing in Construction Joint Ventures **2020**,		2
46	Design of irrigation canals with minimum overall cost using particle swarm optimization □ case study: El-Sheikh Gaber canal, north Sinai Peninsula, Egypt. *Journal of Hydroinformatics*, **2020**, 22, 1258-1269	2.6	1
45	Network-Based Optimization System for Pavement Maintenance Using a Probabilistic Simulation-Based Genetic Algorithm Approach. *Journal of Transportation Engineering Part B: Pavements*, **2020**, 146, 04020069	1.4	1

44	Environmental impact assessment model for buildings□construction activities. *International Journal of Construction Management*, **2019**, 1-12	1.9	3
43	Factors affecting productivity and improvement in building construction sites. *International Journal of Productivity and Quality Management*, **2019**, 27, 464	0.3	1
42	Multi-Objective Simultaneous Optimization for Linear Projects Scheduling **2019**,		1
41	Optimal Construction Facilities Location Selection for Linear Infrastructure Projects **2019**,		1
40	Comparison of Five Evolutionary Algorithms for Optimization of Water Distribution Networks. *Journal of Computing in Civil Engineering*, **2018**, 32, 04017066	5	26
39	Pile-Raft Settlements Prediction under Coupled Static-Dynamic Loads Using Four Heuristic Regression Approaches. *Shock and Vibration*, **2018**, 2018, 1-10	1.1	3
38	Developing a New Activity Pollution Index for Emissions Quantitative Assessment in Projects Construction Phase: Case Study of an Administrative Building, Egypt. *IOP Conference Series: Earth and Environmental Science*, **2018**, 151, 012018	0.3	
37	Structural Health Monitoring and Assessment: Sensors and Analysis. *Journal of Sensors*, **2018**, 2018, 1-2	2	2
36	Predicting the Pullout Capacity of Small Ground Anchors Using Nonlinear Integrated Computing Techniques. *Shock and Vibration*, **2017**, 2017, 1-10	1.1	1
35	Recent Advances of Structures Monitoring and Evaluation Using GPS-Time Series Monitoring Systems: A Review. *ISPRS International Journal of Geo-Information*, **2017**, 6, 382	2.9	31
34	Visualized strategy for predicting buildings energy consumption during early design stage using parametric analysis. *Journal of Building Engineering*, **2017**, 13, 127-136	5.2	29
33	Time-Series and Frequency-Spectrum Correlation Analysis of Bridge Performance Based on a Real-Time Strain Monitoring System. *ISPRS International Journal of Geo-Information*, **2016**, 5, 61	2.9	4
32	Evaluation of High-Speed Railway Bridges Based on a Nondestructive Monitoring System. *Applied Sciences (Switzerland)*, **2016**, 6, 24	2.6	12
31	Adjustment and Assessment of the Measurements of Low and High Sampling Frequencies of GPS Real-Time Monitoring of Structural Movement. *ISPRS International Journal of Geo-Information*, **2016**, 5, 222	2.9	15
30	Overall multiobjective optimization of construction projects scheduling using particle swarm. *Engineering, Construction and Architectural Management*, **2016**, 23, 265-282	3.1	34
29	Optimum analysis of pavement maintenance using multi-objective genetic algorithmsPeer review under responsibility of Housing and Building National Research Center.View all notes. *HBRC Journal*, **2015**, 11, 107-113	0.9	32
28	Bridge Monitoring with Wavelet Principal Component and Spectrum Analysis Based on GPS Measurements: Case Study of the Mansoura Bridge in Egypt. *Journal of Performance of Constructed Facilities*, **2015**, 29, 04014071	2	7
27	GPS-Monitoring and Assessment of Mansoura Railway Steel-Bridge Based on Filter and Wavelet Methods. *Asian Journal of Earth Sciences*, **2015**, 8, 114-126	0.7	2

26	Optimal Groundwater Management Using Multiobjective Particle Swarm with a New Evolution Strategy. *Journal of Hydrologic Engineering - ASCE*, **2014**, 19, 1141-1149	1.8	7
25	Talkha steel highway bridge monitoring and movement identification using RTK-GPS technique. *Measurement: Journal of the International Measurement Confederation*, **2013**, 46, 4282-4292	4.6	37
24	Swarm Intelligence for Large-Scale Optimization in Construction Management **2013**, 479-495		2
23	Fuzzy Logic Model for Selection of Vertical Formwork Systems. *Journal of Construction Engineering and Management - ASCE*, **2012**, 138, 832-840	4.2	12
22	Integrated visualized time control system for repetitive construction projects. *Automation in Construction*, **2011**, 20, 940-953	9.6	40
21	Selection of slab formwork system using fuzzy logic. *Construction Management and Economics*, **2011** , 29, 659-670	3	15
20	A modified shuffled frog-leaping optimization algorithm: applications to project management. *Structure and Infrastructure Engineering*, **2007**, 3, 53-60	2.9	128
19	Comparison of Two Evolutionary Algorithms for Optimization of Bridge Deck Repairs. *Computer-Aided Civil and Infrastructure Engineering*, **2006**, 21, 561-572	8.4	71
18	Comparison among five evolutionary-based optimization algorithms. *Advanced Engineering Informatics*, **2005**, 19, 43-53	7.4	831
17	Evolutionary Algorithms for Optimizing Bridge Deck Rehabilitation **2005**, 1		3
16	Keeping Better Site Records Using Intelligent Bar Charts. *Journal of Construction Engineering and Management - ASCE*, **2005**, 131, 513-521	4.2	10
15	In-House Delivery of Multiple-Small Reconstruction Projects. *Journal of Management in Engineering - ASCE*, **2004**, 20, 25-31	5.3	7
14	Distributed Scheduling Model for Infrastructure Networks. *Journal of Construction Engineering and Management - ASCE*, **2004**, 130, 160-167	4.2	39
13	Dynamic Layout of Construction Temporary Facilities Considering Safety. *Journal of Construction Engineering and Management - ASCE*, **2004**, 130, 534-541	4.2	99
12	Bridge Deck Management System with Integrated Life-Cycle Cost Optimization. *Transportation Research Record*, **2004**, 1866, 44-50	1.7	19
11	Design of steel roofs subjected to drifted snow using genetic optimization. *Computers and Structures*, **2003**, 81, 339-348	4.5	3
10	Discussion of "Algorithm for Determining Controlling Path Considering Resource Continuity" by Mohammad A. Ammar and Emad Elbeltagi. *Journal of Computing in Civil Engineering*, **2003**, 17, 70-72	5	3
9	Closure to "Algorithm for Determining Controlling Path Considering Resource Continuity" by Mohammad A. Ammar and Emad Elbeltagi. *Journal of Computing in Civil Engineering*, **2003**, 17, 72-73	5	1

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8	Discussion of Algorithm for Determining Controlling Path Considering Resource Continuity by Mohammed A. Ammar and Emad Elbeltagi. *Journal of Computing in Civil Engineering*, **2003**, 17, 68-70	5	5
7	A Hybrid AL-Based System for Site Layout Planning in Construction. *Computer-Aided Civil and Infrastructure Engineering*, **2001**, 16, 79-93	8.4	46
6	Algorithm for Determining Controlling Path Considering Resource Continuity. *Journal of Computing in Civil Engineering*, **2001**, 15, 292-298	5	24
5	Schedule-dependent evolution of site layout planning. *Construction Management and Economics*, **2001**, 19, 689-697	3	39
4	Algorithm for Scheduling with Multiskilled Constrained Resources. *Journal of Construction Engineering and Management - ASCE*, **2000**, 126, 414-421	4.2	38
3	Tools of soft computing as applied to the problem of facilities layout planning. *IEEE Transactions on Fuzzy Systems*, **2000**, 8, 367-379	8.3	26
2	EvoSite: Evolution-Based Model for Site Layout Planning. *Journal of Computing in Civil Engineering*, **1999**, 13, 198-206	5	106
1	Construction facilities location selection for urban linear infrastructure maintenance projects using uniform cost search method. *Soft Computing*,1	3.5	1