Emad E Elbeltagi

List of Publications by Year
in descending order

62 papers	2,683 citations	279487 23 h-index	182168 51 g-index
64 all docs	64 docs citations	64 times ranked	2100 citing authors

#	Article	IF	Citations
1	Comparison among five evolutionary-based optimization algorithms. Advanced Engineering Informatics, 2005, 19, 43-53.	4.0	1,044
2	A modified shuffled frog-leaping optimization algorithm: applications to project management. Structure and Infrastructure Engineering, 2007, 3, 53-60.	2.0	158
3	EvoSite: Evolution-Based Model for Site Layout Planning. Journal of Computing in Civil Engineering, 1999, 13, 198-206.	2.5	130
4	Dynamic Layout of Construction Temporary Facilities Considering Safety. Journal of Construction Engineering and Management - ASCE, 2004, 130, 534-541.	2.0	130
5	Comparison of Two Evolutionary Algorithms for Optimization of Bridge Deck Repairs. Computer-Aided Civil and Infrastructure Engineering, 2006, 21, 561-572.	6.3	90
6	A simplified pavement condition index regression model for pavement evaluation. International Journal of Pavement Engineering, 2021, 22, 643-652.	2.2	64
7	A Hybrid AL–Based System for Site Layout Planning in Construction. Computer-Aided Civil and Infrastructure Engineering, 2001, 16, 79-93.	6.3	62
8	Algorithm for Scheduling with Multiskilled Constrained Resources. Journal of Construction Engineering and Management - ASCE, 2000, 126, 414-421.	2.0	59
9	Overall multiobjective optimization of construction projects scheduling using particle swarm. Engineering, Construction and Architectural Management, 2016, 23, 265-282.	1.8	57
10	Predicting energy consumption for residential buildings using ANN through parametric modeling. Energy Reports, 2021, 7, 2534-2545.	2.5	56
11	Integrated visualized time control system for repetitive construction projects. Automation in Construction, 2011, 20, 940-953.	4.8	52
12	Schedule-dependent evolution of site layout planning. Construction Management and Economics, 2001, 19, 689-697.	1.8	50
13	Optimum analysis of pavement maintenance using multi-objective genetic algorithms. HBRC Journal, 2015, 11, 107-113.	0.2	49
14	Distributed Scheduling Model for Infrastructure Networks. Journal of Construction Engineering and Management - ASCE, 2004, 130, 160-167.	2.0	48
15	Talkha steel highway bridge monitoring and movement identification using RTK-GPS technique. Measurement: Journal of the International Measurement Confederation, 2013, 46, 4282-4292.	2.5	46
16	Recent Advances of Structures Monitoring and Evaluation Using GPS-Time Series Monitoring Systems: A Review. ISPRS International Journal of Geo-Information, 2017, 6, 382.	1.4	45
17	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, .	2.0	41
18	Visualized strategy for predicting buildings energy consumption during early design stage using parametric analysis. Journal of Building Engineering, 2017, 13, 127-136.	1.6	40

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19	Comparison of Five Evolutionary Algorithms for Optimization of Water Distribution Networks. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	39
20	Algorithm for Determining Controlling Path Considering Resource Continuity. Journal of Computing in Civil Engineering, 2001, 15, 292-298.	2.5	34
21	Tools of soft computing as applied to the problem of facilities layout planning. IEEE Transactions on Fuzzy Systems, 2000, 8, 367-379.	6.5	32
22	An Approach Based on Landsat Images for Shoreline Monitoring to Support Integrated Coastal Managementâ€"A Case Study, Ezbet Elborg, Nile Delta, Egypt. ISPRS International Journal of Geo-Information, 2020, 9, 199.	1.4	27
23	Sustainable building materials assessment and selection using system dynamics. Journal of Building Engineering, 2021, 35, 101978.	1.6	27
24	Bridge Deck Management System with Integrated Life-Cycle Cost Optimization. Transportation Research Record, 2004, 1866, 44-50.	1.0	25
25	Selection of slab formwork system using fuzzy logic. Construction Management and Economics, 2011, 29, 659-670.	1.8	23
26	Conceptual Profit Allocation Framework for Construction Joint Ventures: Shapley Value Approach. Journal of Management in Engineering - ASCE, 2021, 37, .	2.6	21
27	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.	1.4	20
28	Keeping Better Site Records Using Intelligent Bar Charts. Journal of Construction Engineering and Management - ASCE, 2005, 131, 513-521.	2.0	18
29	Fuzzy Logic Model for Selection of Vertical Formwork Systems. Journal of Construction Engineering and Management - ASCE, 2012, 138, 832-840.	2.0	17
30	Simultaneous multi-criteria optimization for scheduling linear infrastructure projects. International Journal of Construction Management, 2021, 21, 41-55.	2.2	17
31	Evaluation of High-Speed Railway Bridges Based on a Nondestructive Monitoring System. Applied Sciences (Switzerland), 2016, 6, 24.	1.3	16
32	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, 2022, 29, 1913-1956.	2.9	14
33	In-House Delivery of Multiple-Small Reconstruction Projects. Journal of Management in Engineering - ASCE, 2004, 20, 25-31.	2.6	13
34	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, .	1.0	10
35	Network-Based Optimization System for Pavement Maintenance Using a Probabilistic Simulation-Based Genetic Algorithm Approach. Journal of Transportation Engineering Part B: Pavements, 2020, 146, .	0.8	9
36	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.	0.9	9

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37	Optimal Groundwater Management Using Multiobjective Particle Swarm with a New Evolution Strategy. Journal of Hydrologic Engineering - ASCE, 2014, 19, 1141-1149.	0.8	8
38	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.	2.5	6
39	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.	1.1	6
40	Evolutionary Algorithms for Optimizing Bridge Deck Rehabilitation. , 2005, , 1.		5
41	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.	1.4	5
42	Environmental impact assessment model for buildings' construction activities. International Journal of Construction Management, 2022, 22, 849-860.	2.2	5
43	Estimating the Dynamic Behavior of Highway Steel Plate Girder Bridges Using Real-Time Strain Measurements. Applied Sciences (Switzerland), 2020, 10, 4215.	1.3	5
44	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.	3.5	5
45	A Cooperative Game Theoretic Model for Revenue Sharing in Construction Joint Ventures. , 2020, , .		5
46	Design of steel roofs subjected to drifted snow using genetic optimization. Computers and Structures, 2003, 81, 339-348.	2.4	4
47	Structural Health Monitoring and Assessment: Sensors and Analysis. Journal of Sensors, 2018, 2018, 1-2.	0.6	4
48	Pile-Raft Settlements Prediction under Coupled Static-Dynamic Loads Using Four Heuristic Regression Approaches. Shock and Vibration, 2018, 2018, 1-10.	0.3	4
49	Factors affecting productivity and improvement in building construction sites. International Journal of Productivity and Quality Management, 2019, 27, 464.	0.1	4
50	Pumping optimization of coastal aquifers using probabilistic search – case study: Quaternary aquifer of El-Arish Rafah, Egypt. Hydrology Research, 2020, 51, 90-104.	1.1	4
51	A modified pavement condition rating index for flexible pavement evaluation in Egypt. Innovative Infrastructure Solutions, 2020, 5, 1.	1.1	4
52	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.	2.5	3
53	GPS-Monitoring and Assessment of Mansoura Railway Steel-Bridge Based on Filter and Wavelet Methods. Asian Journal of Earth Sciences, 2015, 8, 114-126.	0.3	3
54	Construction facilities location selection for urban linear infrastructure maintenance projects using uniform cost search method. Soft Computing, 2022, 26, 1403-1415.	2.1	3

#	Article	IF	Citations
55	Swarm Intelligence for Large-Scale Optimization in Construction Management. , 2013, , 479-495.		2
56	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.	2.5	1
57	Predicting the Pullout Capacity of Small Ground Anchors Using Nonlinear Integrated Computing Techniques. Shock and Vibration, 2017, 2017, 1-10.	0.3	1
58	Multi-Objective Simultaneous Optimization for Linear Projects Scheduling. , 2019, , .		1
59	Optimal Construction Facilities Location Selection for Linear Infrastructure Projects. , 2019, , .		1
60	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.	0.6	1
61	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.	0.2	0
62	Adopting the 3D BIM Coordination during the Early Design Stages in Egypt. , 2022, , .		0