

Khaled El-Rayes

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.

85
papers

1,849
citations

24
h-index

40
g-index

92
ext. papers

2,127
ext. citations

4.6
avg, IF

5.38
L-index

#	Paper	IF	Citations
85	Optimizing the use of acoustic materials in office buildings. <i>Scientific Reports</i> , 2021 , 11, 20652	4.9	0
84	Segmentation of point clouds via joint semantic and geometric features for 3D modeling of the built environment. <i>Automation in Construction</i> , 2021 , 125, 103584	9.6	11
83	Optimizing the integration of renewable energy in existing buildings. <i>Energy and Buildings</i> , 2021 , 238, 110851	7	6
82	Optimizing the modularization of floor plans in modular construction projects. <i>Journal of Building Engineering</i> , 2021 , 39, 102316	5.2	0
81	Multiobjective Optimization Model for Planning Repetitive Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021 , 147,	4.2	4
80	Optimizing the scheduling of crew deployments in repetitive construction projects under uncertainty. <i>Engineering, Construction and Architectural Management</i> , 2021 , 28, 1615-1634	3.1	4
79	Optimizing the Renovation Scheduling of Leased Residential Buildings to Minimize Total Project Cost. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021 , 147,	4.2	2
78	Scan2BIM-NET: Deep Learning Method for Segmentation of Point Clouds for Scan-to-BIM. <i>Journal of Construction Engineering and Management - ASCE</i> , 2021 , 147, 04021107	4.2	9
77	Optimal Planning of Hotel Renovation Projects. <i>Buildings</i> , 2021 , 11, 658	3.2	
76	Work Optimization with Association Rule Mining of Accelerated Deterioration in Building Components. <i>Journal of Performance of Constructed Facilities</i> , 2020 , 34, 04020033	2	4
75	Automated generation of optimal thematic architectural layouts using image processing. <i>Automation in Construction</i> , 2020 , 117, 103255	9.6	3
74	Optimizing the Planning of Pedestrian Facilities Upgrade Projects to Maximize Accessibility for People with Disabilities. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04019088	4.2	2
73	Minimizing Consequences of Explosive Attacks on Remote Construction Sites. <i>Journal of Performance of Constructed Facilities</i> , 2020 , 34, 04019099	2	1
72	Quantifying the interruption impact of activity delays in non-serial repetitive construction projects. <i>Construction Management and Economics</i> , 2020 , 38, 515-533	3	5
71	Optimizing the Planning of Remote Construction Sites to Minimize Facility Destruction From Explosive Attacks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018 , 144, 04018020	4.2	5
70	Optimizing the Scheduling of Repetitive Construction to Minimize Interruption Cost. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018 , 144, 04018051	4.2	21
69	Compliance analysis of pedestrian facilities with accessibility requirements. <i>Canadian Journal of Civil Engineering</i> , 2018 , 45, 366-376	1.3	1

68	Minimizing duration and crew work interruptions of repetitive construction projects. <i>Automation in Construction</i> , 2018 , 88, 59-72	9.6	16
67	Maximizing sustainability of existing buildings within limited upgrade budgets. <i>Canadian Journal of Civil Engineering</i> , 2018 , 45, 705-716	1.3	2
66	Optimizing the Planning of Highway Work Zones to Maximize Safety and Mobility. <i>Journal of Management in Engineering - ASCE</i> , 2018 , 34, 04017048	5.3	13
65	Semantic-Rich 3D CAD Models for Built Environments from Point Clouds: An End-to-End Procedure 2017 ,		4
64	Minimizing Upgrade Cost to Achieve LEED Certification for Existing Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 04015073	4.2	3
63	Economic and GHG Emission Analysis of Implementing Sustainable Measures in Existing Public Buildings. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04016055	2	4
62	Multiobjective Optimization Model for Maximizing Sustainability of Existing Buildings. <i>Journal of Management in Engineering - ASCE</i> , 2016 , 32, 04016003	5.3	19
61	Optimal Trade-Offs between Construction Cost and Traffic Delay for Highway Work Zones. <i>Journal of Construction Engineering and Management - ASCE</i> , 2016 , 142, 05016004	4.2	10
60	Parallel Computing Framework for Optimizing Environmental and Economic Performances of Housing Units. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04015026	5	1
59	Optimal Trade-Offs between Housing Cost and Environmental Performance. <i>Journal of Architectural Engineering</i> , 2016 , 22, 04015018	1.5	2
58	Optimizing the selection of sustainability measures to minimize life-cycle cost of existing buildings. <i>Canadian Journal of Civil Engineering</i> , 2016 , 43, 151-163	1.3	5
57	Discrete Markov Approach for Building Component Condition, Reliability, and Service-Life Prediction Modeling. <i>Journal of Performance of Constructed Facilities</i> , 2016 , 30, 04016015	2	16
56	Optimizing tradeoffs among housing sustainability objectives. <i>Automation in Construction</i> , 2015 , 53, 83-94	9.6	19
55	Optimizing the selection of building upgrade measures to minimize the operational negative environmental impacts of existing buildings. <i>Building and Environment</i> , 2015 , 84, 32-43	6.5	15
54	Minimizing Energy Consumption and Carbon Emissions of Aging Buildings. <i>Procedia Engineering</i> , 2015 , 118, 886-893		9
53	Optimal Selection of Sustainability Measures to Minimize Building Operational Costs 2014 ,		5
52	Optimal Trade-Offs between Social Quality of Life and Life-Cycle Cost in Housing Units. <i>Journal of Construction Engineering and Management - ASCE</i> , 2014 , 140, 04014058	4.2	11
51	Automated multi-objective construction logistics optimization system. <i>Automation in Construction</i> , 2014 , 43, 110-122	9.6	44

50	Operational Performance of Sustainable Measures in Public Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2013 , 139,	4.2	7
49	Performance of global optimization models for dynamic site layout planning of construction projects. <i>Automation in Construction</i> , 2013 , 36, 71-78	9.6	43
48	Optimal utilization of interior building spaces for material procurement and storage in congested construction sites. <i>Automation in Construction</i> , 2013 , 31, 292-306	9.6	33
47	Optimal Material Logistics Planning in Congested Construction Sites 2012 ,		5
46	Optimizing the Rehabilitation Efforts of Aging Transportation Networks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012 , 138, 529-539	4.2	4
45	Optimizing Material Procurement and Storage on Construction Sites. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 421-431	4.2	47
44	Multiobjective Optimization of Resource Leveling and Allocation during Construction Scheduling. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 1080-1088	4.2	42
43	Automated multi-objective optimization system for airport site layouts. <i>Automation in Construction</i> , 2011 , 20, 313-320	9.6	30
42	New Approach to Compare Glare and Light Characteristics of Conventional and Balloon Lighting Systems. <i>Journal of Construction Engineering and Management - ASCE</i> , 2011 , 137, 39-44	4.2	3
41	Fast and Accurate Risk Evaluation for Scheduling Large-Scale Construction Projects. <i>Journal of Computing in Civil Engineering</i> , 2011 , 25, 407-417	5	18
40	Minimization of socioeconomic disruption for displaced populations following disasters. <i>Disasters</i> , 2010 , 34, 865-83	2.8	17
39	Maximizing the Sustainability of Integrated Housing Recovery Efforts. <i>Journal of Construction Engineering and Management - ASCE</i> , 2010 , 136, 794-802	4.2	34
38	Maximizing Temporary Housing Safety after Natural Disasters. <i>Journal of Infrastructure Systems</i> , 2010 , 16, 138-148	2.9	18
37	Optimization Research: Enhancing the Robustness of Large-Scale Multiobjective Optimization in Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2010 , 136, 17-25	4.2	42
36	Optimizing Material Logistics Planning in Construction Projects 2010 ,		4
35	Optimizing Resource Utilization during the Recovery of Civil Infrastructure Systems. <i>Journal of Management in Engineering - ASCE</i> , 2010 , 26, 237-246	5.3	40
34	Optimizing the planning of construction site security for critical infrastructure projects. <i>Automation in Construction</i> , 2010 , 19, 221-234	9.6	23
33	Optimizing the utilization of multiple labor shifts in construction projects. <i>Automation in Construction</i> , 2010 , 19, 109-119	9.6	22

32	Dynamic Site Layout Planning Using Approximate Dynamic Programming. <i>Journal of Computing in Civil Engineering</i> , 2009 , 23, 119-127	5	48
31	Time-Profit Trade-Off Analysis for Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009 , 135, 718-725	4.2	23
30	Optimizing Resource Leveling in Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009 , 135, 1172-1180	4.2	67
29	Field Experiments to Evaluate and Control Light Tower Glare in Nighttime Work Zones. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009 , 135, 911-919	4.2	5
28	Optimizing Large-Scale Temporary Housing Arrangements after Natural Disasters. <i>Journal of Computing in Civil Engineering</i> , 2009 , 23, 110-118	5	33
27	An automated system for optimizing post-disaster temporary housing allocation. <i>Automation in Construction</i> , 2009 , 18, 983-993	9.6	36
26	Global Optimization of Dynamic Site Layout Planning in Construction Projects 2009 ,		1
25	Optimizing Postdisaster Reconstruction Planning for Damaged Transportation Networks. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009 , 135, 1039-1048	4.2	50
24	Planning Post-Disaster Reconstruction Efforts of Damaged Transportation Networks 2009 ,		4
23	Multi-Objective Optimization of Temporary Housing for the 1994 Northridge Earthquake. <i>Journal of Earthquake Engineering</i> , 2008 , 12, 81-91	1.8	27
22	Minimizing Construction-Related Security Risks during Airport Expansion Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2008 , 134, 40-48	4.2	29
21	Measurement of Pavement Surface Reflectance for a Balloon Lighting System. <i>Journal of Transportation Engineering</i> , 2008 , 134, 432-437		3
20	Optimizing Airport Construction Site Layouts to Minimize Wildlife Hazards. <i>Journal of Management in Engineering - ASCE</i> , 2006 , 22, 176-185	5.3	15
19	Minimizing Construction-Related Hazards in Airport Expansion Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 562-572	4.2	20
18	Lighting Requirements for Nighttime Highway Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 435-443	4.2	4
17	Parallel Genetic Algorithms for Optimizing Resource Utilization in Large-Scale Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2006 , 132, 491-498	4.2	57
16	MACROS: Multiobjective Automated Construction Resource Optimization System. <i>Journal of Management in Engineering - ASCE</i> , 2006 , 22, 126-134	5.3	28
15	Optimal Planning and Scheduling for Repetitive Construction Projects. <i>Journal of Management in Engineering - ASCE</i> , 2006 , 22, 11-19	5.3	99

14	Time-Cost-Quality Trade-Off Analysis for Highway Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2005 , 131, 477-486	4.2	198
13	Optimal Lighting Arrangements for Nighttime Highway Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2005 , 131, 1292-1300	4.2	16
12	CONLIGHT: Lighting Design Model for Nighttime Highway Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2005 , 131, 467-476	4.2	8
11	Parallel Computing Framework for Optimizing Construction Planning in Large-Scale Projects. <i>Journal of Computing in Civil Engineering</i> , 2005 , 19, 304-312	5	24
10	Trade-off between Safety and Cost in Planning Construction Site Layouts. <i>Journal of Construction Engineering and Management - ASCE</i> , 2005 , 131, 1186-1195	4.2	93
9	Lighting Design Requirements for Highway Nighttime Construction 2003 , 1		5
8	An object-oriented model for planning and control of housing construction. <i>Construction Management and Economics</i> , 2002 , 20, 201-210	3	6
7	Object-Oriented Model for Repetitive Construction Scheduling. <i>Journal of Construction Engineering and Management - ASCE</i> , 2001 , 127, 199-205	4.2	22
6	Optimizing Resource Utilization for Repetitive Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2001 , 127, 18-27	4.2	106
5	Optimum Planning of Highway Construction under A + B Bidding Method. <i>Journal of Construction Engineering and Management - ASCE</i> , 2001 , 127, 261-269	4.2	32
4	Resource-driven scheduling of repetitive activities. <i>Construction Management and Economics</i> , 1998 , 16, 433-446	3	72
3	Least cost scheduling for repetitive projects. <i>Canadian Journal of Civil Engineering</i> , 1993 , 20, 834-843	1.3	7
2	Metrics and methods for evaluating model-driven reality capture plans. <i>Computer-Aided Civil and Infrastructure Engineering</i> ,	8.4	1
1	Stochastic scheduling optimization of repetitive construction projects to minimize project duration and cost. <i>International Journal of Construction Management</i> , 1-10	1.9	