Symeon E Christodoulou

List of Publications by Year
in descending order

60 papers	1,348 citations	279487 23 h-index	360668 35 g-index
62 all docs	62 docs citations	62 times ranked	1194 citing authors

#	Article	IF	Citations
1	Toward automated generation of parametric BIMs based on hybrid video and laser scanning data. Advanced Engineering Informatics, 2010, 24, 456-465.	4.0	151
2	A Neurofuzzy Decision Framework for the Management of Water Distribution Networks. Water Resources Management, 2010, 24, 139-156.	1.9	83
3	Water Network Assessment and Reliability Analysis by Use of Survival Analysis. Water Resources Management, 2011, 25, 1229-1238.	1.9	66
4	Seismic reliability assessment of urban water networks. Earthquake Engineering and Structural Dynamics, 2014, 43, 357-374.	2.5	62
5	Automated Pavement Patch Detection and Quantification Using Support Vector Machines. Journal of Computing in Civil Engineering, 2018, 32, .	2.5	58
6	Risk-based asset management of water piping networks using neurofuzzy systems. Computers, Environment and Urban Systems, 2009, 33, 138-149.	3.3	55
7	Scheduling Resource-Constrained Projects with Ant Colony Optimization Artificial Agents. Journal of Computing in Civil Engineering, 2010, 24, 45-55.	2.5	52
8	Topological Robustness and Vulnerability Assessment of Water Distribution Networks. Water Resources Management, 2017, 31, 4007-4021.	1.9	52
9	Minimum Moment Method for Resource Leveling Using Entropy Maximization. Journal of Construction Engineering and Management - ASCE, 2010, 136, 518-527.	2.0	46
10	A study on the effects of intermittent water supply on the vulnerability of urban water distribution networks. Water Science and Technology: Water Supply, 2012, 12, 523-530.	1.0	38
11	Entropy-Based Sensor Placement Optimization for Waterloss Detection in Water Distribution Networks. Water Resources Management, 2013, 27, 4443-4468.	1.9	38
12	Proactive Risk-Based Integrity Assessment of Water Distribution Networks. Water Resources Management, 2010, 24, 3715-3730.	1.9	36
13	Reliability Assessment of Urban Water Distribution Networks Under Seismic Loads. Water Resources Management, 2013, 27, 3739-3764.	1.9	36
14	Entropy-based scheduling of resource-constrained construction projects. Automation in Construction, 2009, 18, 919-928.	4.8	32
15	Pipe Routing through Ant Colony Optimization. Journal of Infrastructure Systems, 2010, 16, 149-159.	1.0	32
16	Vision- and Entropy-Based Detection of Distressed Areas for Integrated Pavement Condition Assessment. Journal of Computing in Civil Engineering, 2019, 33, .	2.5	30
17	Educating Civil Engineering Professionals of Tomorrow. Journal of Professional Issues in Engineering Education and Practice, 2004, 130, 90-94.	0.9	29
18	Qualifications-Based Selection of Professional A/E Services. Journal of Management in Engineering - ASCE, 2004, 20, 34-41.	2.6	29

#	Article	IF	Citations
19	Smartphone-Based Pothole Detection Utilizing Artificial Neural Networks. Journal of Infrastructure Systems, 2019, 25, .	1.0	27
20	Waterloss Detection in Water Distribution Networks using Wavelet Change-Point Detection. Water Resources Management, 2017, 31, 979-994.	1.9	26
21	Construction imitating ants: Resource-unconstrained scheduling with artificial ants. Automation in Construction, 2009, 18, 285-293.	4.8	25
22	Improving qualificationsâ€based selection by use of the fuzzy Delphi method. Construction Management and Economics, 2009, 27, 373-384.	1.8	24
23	Vulnerability Assessment of Water Distribution Networks Considering Performance Data. Journal of Infrastructure Systems, 2015, 21, 04014040.	1.0	24
24	Bid markâ€up selection using artificial neural networks and an entropy metric. Engineering, Construction and Architectural Management, 2010, 17, 424-439.	1.8	23
25	A bidâ€unbalancing method for lowering a contractor's financial risk. Construction Management and Economics, 2008, 26, 1291-1302.	1.8	22
26	Building energy performance prediction using neural networks. Energy Efficiency, 2017, 10, 1315-1327.	1.3	21
27	Optimum Bid Markup Calculation Using Neurofuzzy Systems and Multidimensional Risk Analysis Algorithm. Journal of Computing in Civil Engineering, 2004, 18, 322-330.	2.5	20
28	Automated detection of pavement patches utilizing support vector machine classification. , 2016, , .		19
29	Vulnerability of Urban Water Distribution Networks under Intermittent Water Supply Operations. Water Resources Management, 2016, 30, 4731-4750.	1.9	18
30	A Risk Analysis Framework for Evaluating Structural Degradation of Water Mains in Urban Settings, Using Neurofuzzy Systems and Statistical Modeling Techniques. , 2003, , 1.		15
31	Influence of intermittent water supply operations on the vulnerability of water distribution networks. Journal of Hydroinformatics, 2017, 19, 838-852.	1.1	14
32	Rehabilitation and maintenance of water distribution network assets. Water Science and Technology: Water Supply, 2008, 8, 231-237.	1.0	13
33	Water Resources Conservancy and Risk Reduction Under Climatic Instability. Water Resources Management, 2011, 25, 1059-1062.	1.9	13
34	Roadway pavement anomaly classification utilizing smartphones and artificial intelligence. , 2016, , .		12
35	Ant Colony Optimization in Construction Scheduling. , 2005, , 1.		11
36	Entropy-Based Heuristic for Resource-Constrained Project Scheduling. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	10

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37	Construction Risk Analysis Tool for Determining Liquidated Damages Insurance Premiums: Case Study. Journal of Construction Engineering and Management - ASCE, 2000, 126, 407-413.	2.0	9
38	Traffic Modeling and College-Bus Routing Using Entropy Maximization. Journal of Transportation Engineering, 2010, 136, 102-109.	0.9	9
39	The Impact of Intermittent Water Supply Policies on Urban Water Distribution Networks. Procedia Engineering, 2016, 162, 204-211.	1.2	8
40	Quantifying Demand Dynamics for Supporting Optimal Taxi Services Strategies. Transportation Research Procedia, 2017, 22, 675-684.	0.8	8
41	Do Vehicles Sense, Detect and Locate Speed Bumps?. Transportation Research Procedia, 2021, 52, 203-210.	0.8	8
42	Disorder considerations in resourceâ€constrained scheduling. Construction Management and Economics, 2009, 27, 229-240.	1.8	6
43	Spatial Roadway Condition-Assessment Mapping Utilizing Smartphones and Machine Learning Algorithms. Transportation Research Record, 2021, 2675, 1118-1126.	1.0	6
44	Heuristic Methods for Resource Leveling Problems. , 2015, , 389-407.		6
45	Comprehensive Decision Support System for Managing Asphalt Pavements. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 06020001.	0.8	6
46	Stochastic assessment of the energy performance of buildings. Energy Efficiency, 2017, 10, 1573-1591.	1.3	4
47	The Science in Human Intuition: Optimum Bid Markup Calculation in Competitive Bidding Environments Using Probabilistic Neural Networks. , 2000, , 574.		3
48	An Expanded Methodology for Imprinting the Condition of an Urban Water Distribution Network. Procedia Engineering, 2016, 162, 196-203.	1.2	3
49	Dynamic monitoring of taxi demand profiles, utilizing location-specific information in large metropolitan areas. , 2016, , .		2
50	From Historical and Seismic Performance to City-Wide Risk Maps. , 2018, , 247-267.		2
51	Study on Procurement of Architectural and Engineering Services for Public Works: Case for Qualifications-Based Selection. Transportation Research Record, 2003, 1861, 151-160.	1.0	1
52	Vulnerability Assessment of Water Distribution Networks Under Seismic Loads. , 2018, , 173-207.		1
53	Disaster Resilience of Water Distribution Networks. , 2018, , 269-281.		1
54	Integrated Computer-Aided Monitoring, Management and Maintenance of Civil Infrastructure. , 2000, , 580.		0

#	Article	IF	Citations
55	Monitoring Social Networks Formation and Information Velocity for Cases of Airliners' Crashes. , 2015, , .		0
56	Modeling and analysis of urban water distribution networks during intermittent water supply periods. , 2016, , .		0
57	Real-Time Monitoring. , 2018, , 227-246.		0
58	Hydraulic Vulnerability Assessment of Water Distribution Networks. , 2018, , 209-225.		0
59	Vulnerability Assessment of Water Distribution Networks Under Abnormal Operating Conditions and Nonseismic Loads â€“ The Case of Intermittent Water Supply (IWS). , 2018, , 131-159.		0
60	Vulnerability Assessment of Water Distribution Networks Under Normal (Continuous Water Supply,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		0