

Symeon E Christodoulou

List of Publications by Citations

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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.

58 papers	992 citations	19 h-index	29 g-index
62 ext. papers	1,167 ext. citations	3.6 avg, IF	4.94 L-index

#	Paper	IF	Citations
58	Toward automated generation of parametric BIMs based on hybrid video and laser scanning data. <i>Advanced Engineering Informatics</i> , 2010 , 24, 456-465	7.4	126
57	A Neurofuzzy Decision Framework for the Management of Water Distribution Networks. <i>Water Resources Management</i> , 2010 , 24, 139-156	3.7	64
56	Water Network Assessment and Reliability Analysis by Use of Survival Analysis. <i>Water Resources Management</i> , 2011 , 25, 1229-1238	3.7	56
55	Seismic reliability assessment of urban water networks. <i>Earthquake Engineering and Structural Dynamics</i> , 2014 , 43, 357-374	4	46
54	Scheduling Resource-Constrained Projects with Ant Colony Optimization Artificial Agents. <i>Journal of Computing in Civil Engineering</i> , 2010 , 24, 45-55	5	43
53	Risk-based asset management of water piping networks using neurofuzzy systems. <i>Computers, Environment and Urban Systems</i> , 2009 , 33, 138-149	5.9	41
52	Minimum Moment Method for Resource Leveling Using Entropy Maximization. <i>Journal of Construction Engineering and Management - ASCE</i> , 2010 , 136, 518-527	4.2	38
51	Automated Pavement Patch Detection and Quantification Using Support Vector Machines. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 04017073	5	34
50	Topological Robustness and Vulnerability Assessment of Water Distribution Networks. <i>Water Resources Management</i> , 2017 , 31, 4007-4021	3.7	33
49	Reliability Assessment of Urban Water Distribution Networks Under Seismic Loads. <i>Water Resources Management</i> , 2013 , 27, 3739-3764	3.7	29
48	A study on the effects of intermittent water supply on the vulnerability of urban water distribution networks. <i>Water Science and Technology: Water Supply</i> , 2012 , 12, 523-530	1.4	29
47	Entropy-Based Sensor Placement Optimization for Waterloss Detection in Water Distribution Networks. <i>Water Resources Management</i> , 2013 , 27, 4443-4468	3.7	27
46	Qualifications-Based Selection of Professional A/E Services. <i>Journal of Management in Engineering - ASCE</i> , 2004 , 20, 34-41	5.3	25
45	Proactive Risk-Based Integrity Assessment of Water Distribution Networks. <i>Water Resources Management</i> , 2010 , 24, 3715-3730	3.7	24
44	Entropy-based scheduling of resource-constrained construction projects. <i>Automation in Construction</i> , 2009 , 18, 919-928	9.6	23
43	Pipe Routing through Ant Colony Optimization. <i>Journal of Infrastructure Systems</i> , 2010 , 16, 149-159	2.9	22
42	Educating Civil Engineering Professionals of Tomorrow. <i>Journal of Professional Issues in Engineering Education and Practice</i> , 2004 , 130, 90-94	0.7	22

41	Construction imitating ants: Resource-unconstrained scheduling with artificial ants. <i>Automation in Construction</i> , 2009 , 18, 285-293	9.6	21
40	Vision- and Entropy-Based Detection of Distressed Areas for Integrated Pavement Condition Assessment. <i>Journal of Computing in Civil Engineering</i> , 2019 , 33, 04019020	5	19
39	Vulnerability Assessment of Water Distribution Networks Considering Performance Data. <i>Journal of Infrastructure Systems</i> , 2015 , 21, 04014040	2.9	19
38	Improving qualifications-based selection by use of the fuzzy Delphi method. <i>Construction Management and Economics</i> , 2009 , 27, 373-384	3	19
37	A bid-unbalancing method for lowering a contractor's financial risk. <i>Construction Management and Economics</i> , 2008 , 26, 1291-1302	3	19
36	Waterloss Detection in Water Distribution Networks using Wavelet Change-Point Detection. <i>Water Resources Management</i> , 2017 , 31, 979-994	3.7	18
35	Optimum Bid Markup Calculation Using Neurofuzzy Systems and Multidimensional Risk Analysis Algorithm. <i>Journal of Computing in Civil Engineering</i> , 2004 , 18, 322-330	5	18
34	Automated detection of pavement patches utilizing support vector machine classification 2016 ,		13
33	Smartphone-Based Pothole Detection Utilizing Artificial Neural Networks. <i>Journal of Infrastructure Systems</i> , 2019 , 25, 04019019	2.9	12
32	Vulnerability of Urban Water Distribution Networks under Intermittent Water Supply Operations. <i>Water Resources Management</i> , 2016 , 30, 4731-4750	3.7	12
31	Bid mark-up selection using artificial neural networks and an entropy metric. <i>Engineering, Construction and Architectural Management</i> , 2010 , 17, 424-439	3.1	12
30	Building energy performance prediction using neural networks. <i>Energy Efficiency</i> , 2017 , 10, 1315-1327	3	11
29	Roadway pavement anomaly classification utilizing smartphones and artificial intelligence 2016 ,		11
28	A Risk Analysis Framework for Evaluating Structural Degradation of Water Mains in Urban Settings, Using Neurofuzzy Systems and Statistical Modeling Techniques 2003 , 1		11
27	Water Resources Conservancy and Risk Reduction Under Climatic Instability. <i>Water Resources Management</i> , 2011 , 25, 1059-1062	3.7	10
26	Influence of intermittent water supply operations on the vulnerability of water distribution networks. <i>Journal of Hydroinformatics</i> , 2017 , 19, 838-852	2.6	10
25	Rehabilitation and maintenance of water distribution network assets. <i>Water Science and Technology: Water Supply</i> , 2008 , 8, 231-237	1.4	9
24	Ant Colony Optimization in Construction Scheduling 2005 , 1		9

23	Entropy-Based Heuristic for Resource-Constrained Project Scheduling. <i>Journal of Computing in Civil Engineering</i> , 2017 , 31, 04016068	5	8
22	Construction Risk Analysis Tool for Determining Liquidated Damages Insurance Premiums: Case Study. <i>Journal of Construction Engineering and Management - ASCE</i> , 2000 , 126, 407-413	4.2	6
21	Quantifying Demand Dynamics for Supporting Optimal Taxi Services Strategies. <i>Transportation Research Procedia</i> , 2017 , 22, 675-684	2.4	5
20	Traffic Modeling and College-Bus Routing Using Entropy Maximization. <i>Journal of Transportation Engineering</i> , 2010 , 136, 102-109		5
19	Disorder considerations in resource-constrained scheduling. <i>Construction Management and Economics</i> , 2009 , 27, 229-240	3	5
18	Stochastic assessment of the energy performance of buildings. <i>Energy Efficiency</i> , 2017 , 10, 1573-1591	3	4
17	Comprehensive Decision Support System for Managing Asphalt Pavements. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020 , 146, 06020001	1.4	4
16	The Impact of Intermittent Water Supply Policies on Urban Water Distribution Networks. <i>Procedia Engineering</i> , 2016 , 162, 204-211		4
15	The Science in Human Intuition: Optimum Bid Markup Calculation in Competitive Bidding Environments Using Probabilistic Neural Networks 2000 , 574		3
14	Heuristic Methods for Resource Leveling Problems 2015 , 389-407		3
13	Graph-Based Hydraulic Vulnerability Assessment of Water Distribution Networks. <i>Lecture Notes in Computer Science</i> , 2016 , 81-87	0.9	3
12	An Expanded Methodology for Imprinting the Condition of an Urban Water Distribution Network. <i>Procedia Engineering</i> , 2016 , 162, 196-203		2
11	From Historical and Seismic Performance to City-Wide Risk Maps 2018 , 247-267		2
10	Do Vehicles Sense, Detect and Locate Speed Bumps?. <i>Transportation Research Procedia</i> , 2021 , 52, 203-210	1.4	2
9	Dynamic monitoring of taxi demand profiles, utilizing location-specific information in large metropolitan areas 2016 ,		1
8	Study on Procurement of Architectural and Engineering Services for Public Works: Case for Qualifications-Based Selection. <i>Transportation Research Record</i> , 2003 , 1861, 151-160	1.7	0
7	Spatial Roadway Condition-Assessment Mapping Utilizing Smartphones and Machine Learning Algorithms. <i>Transportation Research Record</i> , 036119812110061	1.7	0
6	Vulnerability Assessment of Water Distribution Networks Under Seismic Loads 2018 , 173-207		0

- 5 Disaster Resilience of Water Distribution Networks **2018**, 269-281 o
- 4 Vulnerability Assessment of Water Distribution Networks Under Abnormal Operating Conditions and Nonseismic Loads The Case of Intermittent Water Supply (IWS) **2018**, 131-159
- 3 Vulnerability Assessment of Water Distribution Networks Under Normal (Continuous Water Supply, CWS) Operating Conditions and Nonseismic Loads **2018**, 21-129
- 2 Real-Time Monitoring **2018**, 227-246
- 1 Hydraulic Vulnerability Assessment of Water Distribution Networks **2018**, 209-225