

# Symeon E Christodoulou

## 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.

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	Do Vehicles Sense, Detect and Locate Speed Bumps?. <i>Transportation Research Procedia</i> , <b>2021</b> , 52, 203-210	1.4	2
57	Comprehensive Decision Support System for Managing Asphalt Pavements. <i>Journal of Transportation Engineering Part B: Pavements</i> , <b>2020</b> , 146, 06020001	1.4	4
56	Smartphone-Based Pothole Detection Utilizing Artificial Neural Networks. <i>Journal of Infrastructure Systems</i> , <b>2019</b> , 25, 04019019	2.9	12
55	Vision- and Entropy-Based Detection of Distressed Areas for Integrated Pavement Condition Assessment. <i>Journal of Computing in Civil Engineering</i> , <b>2019</b> , 33, 04019020	5	19
54	Vulnerability Assessment of Water Distribution Networks Under Abnormal Operating Conditions and Nonseismic Loads The Case of Intermittent Water Supply (IWS) <b>2018</b> , 131-159		
53	Vulnerability Assessment of Water Distribution Networks Under Normal (Continuous Water Supply, CWS) Operating Conditions and Nonseismic Loads <b>2018</b> , 21-129		
52	Automated Pavement Patch Detection and Quantification Using Support Vector Machines. <i>Journal of Computing in Civil Engineering</i> , <b>2018</b> , 32, 04017073	5	34
51	Vulnerability Assessment of Water Distribution Networks Under Seismic Loads <b>2018</b> , 173-207		0
50	From Historical and Seismic Performance to City-Wide Risk Maps <b>2018</b> , 247-267		2
49	Real-Time Monitoring <b>2018</b> , 227-246		
48	Disaster Resilience of Water Distribution Networks <b>2018</b> , 269-281		0
47	Hydraulic Vulnerability Assessment of Water Distribution Networks <b>2018</b> , 209-225		
46	Building energy performance prediction using neural networks. <i>Energy Efficiency</i> , <b>2017</b> , 10, 1315-1327	3	11
45	Quantifying Demand Dynamics for Supporting Optimal Taxi Services Strategies. <i>Transportation Research Procedia</i> , <b>2017</b> , 22, 675-684	2.4	5
44	Waterloss Detection in Water Distribution Networks using Wavelet Change-Point Detection. <i>Water Resources Management</i> , <b>2017</b> , 31, 979-994	3.7	18
43	Topological Robustness and Vulnerability Assessment of Water Distribution Networks. <i>Water Resources Management</i> , <b>2017</b> , 31, 4007-4021	3.7	33
42	Stochastic assessment of the energy performance of buildings. <i>Energy Efficiency</i> , <b>2017</b> , 10, 1573-1591	3	4

41	Entropy-Based Heuristic for Resource-Constrained Project Scheduling. <i>Journal of Computing in Civil Engineering</i> , <b>2017</b> , 31, 04016068	5	8
40	Influence of intermittent water supply operations on the vulnerability of water distribution networks. <i>Journal of Hydroinformatics</i> , <b>2017</b> , 19, 838-852	2.6	10
39	Vulnerability of Urban Water Distribution Networks under Intermittent Water Supply Operations. <i>Water Resources Management</i> , <b>2016</b> , 30, 4731-4750	3.7	12
38	Dynamic monitoring of taxi demand profiles, utilizing location-specific information in large metropolitan areas <b>2016</b> ,		1
37	Automated detection of pavement patches utilizing support vector machine classification <b>2016</b> ,		13
36	Roadway pavement anomaly classification utilizing smartphones and artificial intelligence <b>2016</b> ,		11
35	Graph-Based Hydraulic Vulnerability Assessment of Water Distribution Networks. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 81-87	0.9	3
34	The Impact of Intermittent Water Supply Policies on Urban Water Distribution Networks. <i>Procedia Engineering</i> , <b>2016</b> , 162, 204-211		4
33	An Expanded Methodology for Imprinting the Condition of an Urban Water Distribution Network. <i>Procedia Engineering</i> , <b>2016</b> , 162, 196-203		2
32	Vulnerability Assessment of Water Distribution Networks Considering Performance Data. <i>Journal of Infrastructure Systems</i> , <b>2015</b> , 21, 04014040	2.9	19
31	Heuristic Methods for Resource Leveling Problems <b>2015</b> , 389-407		3
30	Seismic reliability assessment of urban water networks. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2014</b> , 43, 357-374	4	46
29	Reliability Assessment of Urban Water Distribution Networks Under Seismic Loads. <i>Water Resources Management</i> , <b>2013</b> , 27, 3739-3764	3.7	29
28	Entropy-Based Sensor Placement Optimization for Waterloss Detection in Water Distribution Networks. <i>Water Resources Management</i> , <b>2013</b> , 27, 4443-4468	3.7	27
27	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> , <b>2012</b> , 12, 523-530	1.4	29
26	Water Network Assessment and Reliability Analysis by Use of Survival Analysis. <i>Water Resources Management</i> , <b>2011</b> , 25, 1229-1238	3.7	56
25	Water Resources Conservancy and Risk Reduction Under Climatic Instability. <i>Water Resources Management</i> , <b>2011</b> , 25, 1059-1062	3.7	10
24	Pipe Routing through Ant Colony Optimization. <i>Journal of Infrastructure Systems</i> , <b>2010</b> , 16, 149-159	2.9	22

23	Traffic Modeling and College-Bus Routing Using Entropy Maximization. <i>Journal of Transportation Engineering</i> , <b>2010</b> , 136, 102-109		5
22	Minimum Moment Method for Resource Leveling Using Entropy Maximization. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2010</b> , 136, 518-527	4.2	38
21	Bid mark-up selection using artificial neural networks and an entropy metric. <i>Engineering, Construction and Architectural Management</i> , <b>2010</b> , 17, 424-439	3.1	12
20	Scheduling Resource-Constrained Projects with Ant Colony Optimization Artificial Agents. <i>Journal of Computing in Civil Engineering</i> , <b>2010</b> , 24, 45-55	5	43
19	Toward automated generation of parametric BIMs based on hybrid video and laser scanning data. <i>Advanced Engineering Informatics</i> , <b>2010</b> , 24, 456-465	7.4	126
18	A Neurofuzzy Decision Framework for the Management of Water Distribution Networks. <i>Water Resources Management</i> , <b>2010</b> , 24, 139-156	3.7	64
17	Proactive Risk-Based Integrity Assessment of Water Distribution Networks. <i>Water Resources Management</i> , <b>2010</b> , 24, 3715-3730	3.7	24
16	Disorder considerations in resource-constrained scheduling. <i>Construction Management and Economics</i> , <b>2009</b> , 27, 229-240	3	5
15	Risk-based asset management of water piping networks using neurofuzzy systems. <i>Computers, Environment and Urban Systems</i> , <b>2009</b> , 33, 138-149	5.9	41
14	Construction imitating ants: Resource-unconstrained scheduling with artificial ants. <i>Automation in Construction</i> , <b>2009</b> , 18, 285-293	9.6	21
13	Entropy-based scheduling of resource-constrained construction projects. <i>Automation in Construction</i> , <b>2009</b> , 18, 919-928	9.6	23
12	Improving qualifications-based selection by use of the fuzzy Delphi method. <i>Construction Management and Economics</i> , <b>2009</b> , 27, 373-384	3	19
11	A bid-unbalancing method for lowering a contractor's financial risk. <i>Construction Management and Economics</i> , <b>2008</b> , 26, 1291-1302	3	19
10	Rehabilitation and maintenance of water distribution network assets. <i>Water Science and Technology: Water Supply</i> , <b>2008</b> , 8, 231-237	1.4	9
9	Ant Colony Optimization in Construction Scheduling <b>2005</b> , 1		9
8	Educating Civil Engineering Professionals of Tomorrow. <i>Journal of Professional Issues in Engineering Education and Practice</i> , <b>2004</b> , 130, 90-94	0.7	22
7	Optimum Bid Markup Calculation Using Neurofuzzy Systems and Multidimensional Risk Analysis Algorithm. <i>Journal of Computing in Civil Engineering</i> , <b>2004</b> , 18, 322-330	5	18
6	Qualifications-Based Selection of Professional A/E Services. <i>Journal of Management in Engineering - ASCE</i> , <b>2004</b> , 20, 34-41	5.3	25

5	A Risk Analysis Framework for Evaluating Structural Degradation of Water Mains in Urban Settings, Using Neurofuzzy Systems and Statistical Modeling Techniques <b>2003</b> , 1		11
4	Study on Procurement of Architectural and Engineering Services for Public Works: Case for Qualifications-Based Selection. <i>Transportation Research Record</i> , <b>2003</b> , 1861, 151-160	1.7	0
3	The Science in Human Intuition: Optimum Bid Markup Calculation in Competitive Bidding Environments Using Probabilistic Neural Networks <b>2000</b> , 574		3
2	Construction Risk Analysis Tool for Determining Liquidated Damages Insurance Premiums: Case Study. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2000</b> , 126, 407-413	4.2	6
1	Spatial Roadway Condition-Assessment Mapping Utilizing Smartphones and Machine Learning Algorithms. <i>Transportation Research Record</i> ,036119812110061	1.7	0