

Idel Montalvo arango

List of Publications by Year in descending order

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698
citing authors

#	ARTICLE	IF	CITATIONS
1	A Digital Twin of a Water Distribution System by Using Graph Convolutional Networks for Pump Speed-Based State Estimation. <i>Water (Switzerland)</i> , 2022, 14, 514.	2.7	18
2	Optimal Placement of Pressure Sensors Using Fuzzy DEMATEL-Based Sensor Influence. <i>Water (Switzerland)</i> , 2020, 12, 493.	2.7	19
3	Multi-criteria analysis applied to multi-objective optimal pump scheduling in water systems. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 2338-2346.	2.1	14
4	LoRaWan for Smarter Management of Water Network: From metering to data analysis. <i>Technologien Für Die Intelligente Automation</i> , 2019, , 133-136.	0.5	0
5	Agent Swarm Optimization: Exploding the search space. , 2017, , 55-64.		0
6	Iterative Multistage Method for a Large Water Network Sectorization into DMAs under Multiple Design Objectives. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	2.6	20
7	Near Real Time Pump Optimization and Pressure Management. <i>Procedia Engineering</i> , 2017, 186, 666-675.	1.2	13
8	A Novel Water Supply Network Sectorization Methodology Based on a Complete Economic Analysis, Including Uncertainties. <i>Water (Switzerland)</i> , 2016, 8, 179.	2.7	43
9	A flexible methodology to sectorize water supply networks based on social network theory concepts and multi-objective optimization. <i>Journal of Hydroinformatics</i> , 2016, 18, 62-76.	2.4	45
10	Multi-Agent Simulation of Hydraulic Transient Equations in Pressurized Systems. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, 04015071.	4.7	3
11	A hybrid, auto-adaptive and rule-based multi-agent approach using evolutionary algorithms for improved searching. <i>Engineering Optimization</i> , 2016, 48, 1365-1377.	2.6	3
12	Injecting problem-dependent knowledge to improve evolutionary optimization search ability. <i>Journal of Computational and Applied Mathematics</i> , 2016, 291, 281-292.	2.0	5
13	Automating Workflow in Online Water Network Analysis. <i>Procedia Engineering</i> , 2015, 119, 653-659.	1.2	0
14	A System Architecture for the Detection and Mitigation of CBRN Related Contamination Events of Drinking Water. <i>Procedia Engineering</i> , 2015, 119, 319-327.	1.2	2
15	A Control Simulation Tool for Online Demand Calibration. <i>Procedia Engineering</i> , 2015, 119, 828-833.	1.2	0
16	Parameterization of Offline and Online Hydraulic Simulation Models. <i>Procedia Engineering</i> , 2015, 119, 545-553.	1.2	2
17	Cloud-based Decision Making in Water Distribution Systems. <i>Procedia Engineering</i> , 2014, 89, 488-494.	1.2	9
18	Improved Real-time Monitoring and Control of Water Supply Networks by Use of Graph Decomposition. <i>Procedia Engineering</i> , 2014, 89, 1276-1281.	1.2	6

#	ARTICLE	IF	CITATIONS
19	Mining Solution Spaces for Decision Making in Water Distribution Systems. <i>Procedia Engineering</i> , 2014, 70, 864-871.	1.2	1
20	Water Quality Supervision of Distribution Networks Based on Machine Learning Algorithms and Operator Feedback. <i>Procedia Engineering</i> , 2014, 89, 189-196.	1.2	7
21	Water supply system component evaluation from GPR radargrams using a multi-agent approach. <i>Mathematical and Computer Modelling</i> , 2013, 57, 1927-1932.	2.0	9
22	Error Analysis of Some Demand Simplifications in Hydraulic Models of Water Supply Networks. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-13.	0.7	2
23	On the Complexities of the Design of Water Distribution Networks. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-25.	1.1	11
24	Accreditation and dedication in Coloproctology is associated with good perioperative care. <i>CirugÃa EspaÃola (English Edition)</i> , 2011, 89, 94-100.	0.1	0
25	Reliability and Tolerance Comparison in Water Supply Networks. <i>Water Resources Management</i> , 2011, 25, 1437-1448.	3.9	25
26	Towards the visualization of water supply system components with GPR images. <i>Mathematical and Computer Modelling</i> , 2011, 54, 1818-1822.	2.0	5
27	Tuning metaheuristics: A data mining based approach for particle swarm optimization. <i>Expert Systems With Applications</i> , 2011, 38, 12826-12838.	7.6	42
28	Water Distribution System Design Using Agent Swarm Optimization. , 2011, , .		2
29	Multi-objective particle swarm optimization applied to water distribution systems design: An approach with human interaction. <i>Mathematical and Computer Modelling</i> , 2010, 52, 1219-1227.	2.0	48
30	Improved performance of PSO with self-adaptive parameters for computing the optimal design of Water Supply Systems. <i>Engineering Applications of Artificial Intelligence</i> , 2010, 23, 727-735.	8.1	63
31	Swarm Intelligence for Optimization in the Urban Water Industry. , 2010, , .		0
32	Forecasting pedestrian evacuation times by using swarm intelligence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 1213-1220.	2.6	67
33	Identification of surgical practice patterns using evolutionary cluster analysis. <i>Mathematical and Computer Modelling</i> , 2009, 50, 705-712.	2.0	12
34	Robust Design of Water Supply Systems through Evolutionary Optimization. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , 321-330.	1.0	2
35	Scrutinizing Changes in the Water Demand Behavior. <i>Lecture Notes in Control and Information Sciences</i> , 2009, , 305-313.	1.0	1
36	Sensitivity analysis to assess the relative importance of pipes in water distribution networks. <i>Mathematical and Computer Modelling</i> , 2008, 48, 268-278.	2.0	16

#	ARTICLE	IF	CITATIONS
37	Particle Swarm Optimization applied to the design of water supply systems. Computers and Mathematics With Applications, 2008, 56, 769-776.	2.7	152
38	Design optimization of wastewater collection networks by PSO. Computers and Mathematics With Applications, 2008, 56, 777-784.	2.7	78
39	A diversity-enriched variant of discrete PSO applied to the design of water distribution networks. Engineering Optimization, 2008, 40, 655-668.	2.6	43