

D A Savic

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.

265
papers

9,835
citations

52
h-index

90
g-index

285
ext. papers

11,240
ext. citations

3.8
avg, IF

6.45
L-index

#	Paper	IF	Citations
265	Forensic engineering analysis applied to flood control. <i>Journal of Hydrology</i> , 2021 , 594, 125961	6	2
264	Hydroinformatics education [The Water Informatics in Science and Engineering (WISE) Centre for Doctoral Training. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 2721-2738	5.5	1
263	Digital Water Developments and Lessons Learned from Automation in the Car and Aircraft Industries. <i>Engineering</i> , 2021 ,	9.7	3
262	Water quality and macrophytes in the Danube River: Artificial neural network modelling. <i>Ecological Indicators</i> , 2021 , 121, 107076	5.8	8
261	Real-time foul sewer hydraulic modelling driven by water consumption data from water distribution systems. <i>Water Research</i> , 2021 , 188, 116544	12.5	10
260	Water quality modeling in sewer networks: Review and future research directions. <i>Water Research</i> , 2021 , 202, 117419	12.5	10
259	Foul sewer model development using geotagged information and smart water meter data. <i>Water Research</i> , 2021 , 204, 117594	12.5	2
258	Development and Application of a Multi-Objective-Optimization and Multi-Criteria-Based Decision Support Tool for Selecting Optimal Water Treatment Technologies in India. <i>Water (Switzerland)</i> , 2020 , 12, 2836	3	3
257	Improving the Effectiveness of Multiobjective Optimization Design of Urban Drainage Systems. <i>Water Resources Research</i> , 2020 , 56, e2019WR026656	5.4	8
256	Battle of Postdisaster Response and Restoration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020067	2.8	4
255	Case study of the cascading effects on critical infrastructure in Torbay coastal/pluvial flooding with climate change and 3D visualisation. <i>Journal of Hydroinformatics</i> , 2020 , 22, 77-92	2.6	2
254	Water Resource Systems Analysis for Water Scarcity Management: The Thames Water Case Study. <i>Water (Switzerland)</i> , 2020 , 12, 1761	3	3
253	Assessing the global resilience of water quality sensor placement strategies within water distribution systems. <i>Water Research</i> , 2020 , 172, 115527	12.5	20
252	Adaptive augmented evolutionary intelligence for the design of water distribution networks 2020 ,		1
251	Human-Derived Heuristic Enhancement of an Evolutionary Algorithm for the 2D Bin-Packing Problem. <i>Lecture Notes in Computer Science</i> , 2020 , 413-427	0.9	2
250	Assessing and visualising hazard impacts to enhance the resilience of Critical Infrastructures to urban flooding. <i>Science of the Total Environment</i> , 2020 , 707, 136078	10.2	23
249	Knowledge-based multi-objective genetic algorithms for the design of water distribution networks. <i>Journal of Hydroinformatics</i> , 2020 , 22, 402-422	2.6	9

248	Efficient Leak Localization in Water Distribution Systems Using Multistage Optimal Valve Operations and Smart Demand Metering. <i>Water Resources Research</i> , 2020 , 56, e2020WR028285	5.4	12
247	Using Complex Network Analysis for Optimization of Water Distribution Networks. <i>Water Resources Research</i> , 2020 , 56, e2020WR027929	5.4	10
246	A Flexible Approach for the Reinforcement of Water Networks Using Multi-Criteria Decision Analysis. <i>Water Resources Management</i> , 2020 , 34, 4469-4490	3.7	7
245	The Nile Water-Food-Energy Nexus under Uncertainty: Impacts of the Grand Ethiopian Renaissance Dam. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020085	2.8	14
244	Optimising wastewater treatment solutions for the removal of contaminants of emerging concern (CECs): a case study for application in India. <i>Journal of Hydroinformatics</i> , 2020 , 22, 93-110	2.6	13
243	Urban Hydroinformatics: Past, Present and Future. <i>Water (Switzerland)</i> , 2019 , 11, 1959	3	31
242	Human-evolutionary problem solving through gamification of a bin-packing problem 2019 ,		3
241	Battle of the Water Networks District Metered Areas. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019 , 145, 04019002	2.8	18
240	Parameterization of NSGA-II for the Optimal Design of Water Distribution Systems. <i>Water (Switzerland)</i> , 2019 , 11, 971	3	17
239	Simulating Marginal and Dependence Behaviour of Water Demand Processes at Any Fine Time Scale. <i>Water (Switzerland)</i> , 2019 , 11, 885	3	18
238	A Dynamic Adaptive Approach for Water Distribution Network Design. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019 , 145, 04019026	2.8	14
237	Leak Localization in a Real Water Distribution Network Based on Search-Space Reduction. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019 , 145, 04019024	2.8	25
236	Performance of LEMMO with artificial neural networks for water systems optimisation. <i>Urban Water Journal</i> , 2019 , 16, 21-32	2.3	5
235	Flow regime identification for air valves failure evaluation in water pipelines using pressure data. <i>Water Research</i> , 2019 , 165, 115002	12.5	6
234	Wastewater System Ventilation [A Friend or Adversary?]. <i>Green Energy and Technology</i> , 2019 , 712-716	0.6	1
233	Augmented evolutionary intelligence 2019 ,		4
232	Interactive Decomposition Multiobjective Optimization Via Progressively Learned Value Functions. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 849-860	8.3	15
231	Predicting culturable enterococci exceedances at Escambron Beach, San Juan, Puerto Rico using satellite remote sensing and artificial neural networks. <i>Journal of Water and Health</i> , 2019 , 17, 137-148	2.2	7

230	Explicit Expressions for State Estimation Sensitivity Analysis in Water Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 06018001	2.8	9
229	Rapid assessment of surface-water flood-management options in urban catchments. <i>Urban Water Journal</i> , 2018 , 15, 210-217	2.3	16
228	3D visualisation tool for improving the resilience to urban and coastal flooding in Torbay, UK. <i>Procedia Engineering</i> , 2018 , 212, 809-815		8
227	Discussion of New Pressure-Driven Approach for Modeling Water Distribution Networks by Herman A. Mahmoud, Dragan Savić and Zoran Kapelan. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 07018005	2.8	
226	A risk-based assessment of the household water-energy-food nexus under the impact of seasonal variability. <i>Journal of Cleaner Production</i> , 2018 , 171, 1275-1289	10.3	40
225	Multi-Stakeholder Development of a Serious Game to Explore the Water-Energy-Food-Land-Climate Nexus: The SIM4NEXUS Approach. <i>Water (Switzerland)</i> , 2018 , 10, 139	3	46
224	Lost in Optimisation of Water Distribution Systems? A Literature Review of System Design. <i>Water (Switzerland)</i> , 2018 , 10, 307	3	56
223	An integrated framework for high-resolution urban flood modelling considering multiple information sources and urban features. <i>Environmental Modelling and Software</i> , 2018 , 107, 85-95	5.2	90
222	Operation of Multiple Pumped-Water Sources with No Storage. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018050	2.8	9
221	Exploring the potential climate change impact on urban growth in London by a cellular automata-based Markov chain model. <i>Computers, Environment and Urban Systems</i> , 2018 , 68, 121-132	5.9	32
220	Simplified Approach to Water Distribution System Management via Identification of a Primary Network. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04017089	2.8	11
219	A Serious Game Designed to Explore and Understand the Complexities of Flood Mitigation Options in Urban/Rural Catchments. <i>Water (Switzerland)</i> , 2018 , 10, 1885	3	17
218	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. <i>Reviews of Geophysics</i> , 2018 , 56, 698-740	23.1	60
217	Application of Artificial Neural Networks for Dengue Fever Outbreak Predictions in the Northwest Coast of Yucatan, Mexico and San Juan, Puerto Rico. <i>Tropical Medicine and Infectious Disease</i> , 2018 , 3,	3.5	27
216	Comparison of Multiobjective Optimization Methods Applied to Urban Drainage Adaptation Problems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018070	2.8	12
215	Assessing spatial and temporal variations in regional sustainability in mainland China from 2004 to 2014. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 1185-1194	4.3	2
214	GALAXY: A new hybrid MOEA for the optimal design of Water Distribution Systems. <i>Water Resources Research</i> , 2017 , 53, 1997-2015	5.4	19
213	An integrated model to evaluate water-energy-food nexus at a household scale. <i>Environmental Modelling and Software</i> , 2017 , 93, 366-380	5.2	97

212	Serious Game Approach to Water Distribution System Design and Rehabilitation Problems. <i>Procedia Engineering</i> , 2017 , 186, 76-83		6
211	Lost in optimisation of water distribution systems? A literature review of system operation. <i>Environmental Modelling and Software</i> , 2017 , 93, 209-254	5.2	121
210	Emergency Management of Water Distribution Systems: The Nodal Demand Control. <i>Procedia Engineering</i> , 2017 , 186, 428-435		2
209	Operational and Tactical Management of Water and Energy Resources in Pressurized Systems: Competition at WDSA 2014. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142,	2.8	36
208	Operational resilience of reservoirs to climate change, agricultural demand, and tourism: A case study from Sardinia. <i>Science of the Total Environment</i> , 2016 , 543, 1028-38	10.2	44
207	Impact of urban water supply on energy use in China: a provincial and national comparison. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016 , 21, 1213-1233	3.9	16
206	Parameterizing residential water demand pulse models through smart meter readings. <i>Environmental Modelling and Software</i> , 2016 , 80, 33-40	5.2	26
205	Serious Gaming for Water Systems Planning and Management. <i>Water (Switzerland)</i> , 2016 , 8, 456	3	35
204	Selection of relevant input variables in storm water quality modeling by multiobjective evolutionary polynomial regression paradigm. <i>Water Resources Research</i> , 2016 , 52, 2403-2419	5.4	14
203	Rehabilitating pressurized irrigation networks for an increased energy efficiency. <i>Agricultural Water Management</i> , 2016 , 164, 212-222	5.9	8
202	An analysis of the interface between evolutionary algorithm operators and problem features for water resources problems. A case study in water distribution network design. <i>Environmental Modelling and Software</i> , 2015 , 69, 414-424	5.2	17
201	Using real options for an eco-friendly design of water distribution systems. <i>Journal of Hydroinformatics</i> , 2015 , 17, 20-35	2.6	13
200	Two-Objective Design of Benchmark Problems of a Water Distribution System via MOEAs: Towards the Best-Known Approximation of the True Pareto Front. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04014060	2.8	112
199	Assessing Financial Loss due to Pluvial Flooding and the Efficacy of Risk-Reduction Measures in the Residential Property Sector. <i>Water Resources Management</i> , 2015 , 29, 161-179	3.7	11
198	Sequence Analysis-based Hyper-heuristics for Water Distribution Network Optimisation. <i>Procedia Engineering</i> , 2015 , 119, 1269-1277		7
197	An investigation of the efficient implementation of cellular automata on multi-core CPU and GPU hardware. <i>Journal of Parallel and Distributed Computing</i> , 2015 , 77, 11-25	4.4	19
196	Using Real Options in the Optimal Design of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04014052	2.8	21
195	Comparing Low and High-Level Hybrid Algorithms on the Two-Objective Optimal Design of Water Distribution Systems. <i>Water Resources Management</i> , 2015 , 29, 1-16	3.7	59

194	Multi-objective optimization of water distribution systems based on a real options approach. <i>Environmental Modelling and Software</i> , 2015 , 63, 1-13	5.2	61
193	Interdisciplinary assessment of sea-level rise and climate change impacts on the lower Nile delta, Egypt. <i>Science of the Total Environment</i> , 2015 , 503-504, 279-88	10.2	30
192	Combining Model Predictive Control with Constraint-satisfaction Formulation for the Operative Pumping Control in Water Networks. <i>Procedia Engineering</i> , 2015 , 119, 963-972		5
191	Correlation or not Correlation? This is the Question in Modelling Residential Water Demand Pulses. <i>Procedia Engineering</i> , 2015 , 119, 1455-1462		3
190	Economic Performance of DMAs in Water Distribution Systems. <i>Procedia Engineering</i> , 2015 , 119, 189-195		18
189	Briefing: Negotiating value at the research-practice interface in the water sector. <i>Proceedings of Institution of Civil Engineers: Management, Procurement and Law</i> , 2015 , 168, 8-11	0.5	0
188	Preserving Duration-intensity Correlation on Synthetically Generated Water Demand Pulses. <i>Procedia Engineering</i> , 2015 , 119, 1463-1472		5
187	Advances in Water Mains Network Modelling for Improved Operations. <i>Procedia Engineering</i> , 2015 , 119, 593-602		3
186	Multi-criterion water quality analysis of the Danube River in Serbia: A visualisation approach. <i>Water Research</i> , 2015 , 79, 158-72	12.5	31
185	Development of a Leakage Target Setting Approach for South Korea Based on Economic Level of Leakage. <i>Procedia Engineering</i> , 2015 , 119, 120-129		6
184	A Multicriteria Approach for a Phased Design of Water Distribution Networks. <i>Procedia Engineering</i> , 2015 , 119, 1231-1240		6
183	Forecasting Domestic Water Consumption from Smart Meter Readings Using Statistical Methods and Artificial Neural Networks. <i>Procedia Engineering</i> , 2015 , 119, 1419-1428		29
182	Considering the Mutual Dependence of Pulse Duration and Intensity in Models for Generating Residential Water Demand. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04015031	2.8	28
181	Dealing with Uncertainty in Water Distribution System Models: A Framework for Real-Time Modeling and Data Assimilation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 169-183	2.8	65
180	Real-time Data Assimilation in Urban Rainfall-runoff Models. <i>Procedia Engineering</i> , 2014 , 70, 843-852		15
179	Application of Formal and Informal Bayesian Methods for Water Distribution Hydraulic Model Calibration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 04014030	2.8	14
178	A diameter-sensitive flow entropy method for reliability consideration in water distribution system design. <i>Water Resources Research</i> , 2014 , 50, 5597-5610	5.4	21
177	Evolutionary Algorithm and Expectation Maximization Strategies for Improved Detection of Pipe Bursts and Other Events in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 572-584	2.8	27

176	Evolutionary algorithms and other metaheuristics in water resources: Current status, research challenges and future directions. <i>Environmental Modelling and Software</i> , 2014 , 62, 271-299	5.2	391
175	Identification of Leakages by Calibration of WDS Models. <i>Procedia Engineering</i> , 2014 , 70, 660-667		4
174	Integrated Optimal Cost and Pressure Management for Water Distribution Systems. <i>Procedia Engineering</i> , 2014 , 70, 1659-1668		16
173	Multi-stage Linear Programming Optimization for Pump Scheduling. <i>Procedia Engineering</i> , 2014 , 70, 1378-1385		23
172	Automated Detection of Pipe Bursts and Other Events in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 457-467	2.8	93
171	Quick and accurate Cellular Automata sewer simulator. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1359-1374	2.6	12
170	The influence of the existing network layout on water distribution system redesign analysis. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1375-1389	2.6	4
169	Automatic Multi-objective Sectorization of a Water Distribution Network. <i>Procedia Engineering</i> , 2014 , 89, 1200-1207		27
168	Battle of Background Leakage Assessment for Water Networks (BBLAWN) at WDSA Conference 2014. <i>Procedia Engineering</i> , 2014 , 89, 4-12		24
167	Dealing with Uncertainty through Real Options for the Multi-objective Design of Water Distribution Networks. <i>Procedia Engineering</i> , 2014 , 89, 856-863		6
166	An optimised total expenditure approach to sewerage management. <i>Proceedings of the Institution of Civil Engineers: Municipal Engineer</i> , 2014 , 167, 191-199	0.5	1
165	Multi-objective rehabilitation of urban drainage systems under uncertainties. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1044-1061	2.6	40
164	Smart Meters, Smart Water, Smart Societies: The iWIDGET Project. <i>Procedia Engineering</i> , 2014 , 89, 1105-1112		23
163	Optimal Water Supply System Management by Leakage Reduction and Energy Recovery. <i>Procedia Engineering</i> , 2014 , 89, 573-580		9
162	Model Calibration as a Tool for Leakage Identification in WDS: A Real Case Study. <i>Procedia Engineering</i> , 2014 , 89, 672-678		5
161	Identification of Measurement Points for Calibration of Water Distribution Network Models. <i>Procedia Engineering</i> , 2014 , 89, 693-701		11
160	A Web-based Platform for Water Efficient Households. <i>Procedia Engineering</i> , 2014 , 89, 1128-1135		15
159	Design and Performance of District Metering Areas in Water Distribution Systems. <i>Procedia Engineering</i> , 2014 , 89, 1136-1143		23

158	Automated construction of evolutionary algorithm operators for the bi-objective water distribution network design problem using a genetic programming based hyper-heuristic approach. <i>Journal of Hydroinformatics</i> , 2014 , 16, 302-318	2.6	8
157	Adaptive locally constrained genetic algorithm for least-cost water distribution network design. <i>Journal of Hydroinformatics</i> , 2014 , 16, 288-301	2.6	17
156	Hybrid metaheuristics for multi-objective design of water distribution systems. <i>Journal of Hydroinformatics</i> , 2014 , 16, 165-177	2.6	15
155	Graph-Theoretic Approach and Sound Engineering Principles for Design of District Metered Areas. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 04014036	2.8	63
154	Assessment of the Effectiveness of a Risk-reduction Measure on Pluvial Flooding and Economic Loss in Eindhoven, the Netherlands. <i>Procedia Engineering</i> , 2014 , 70, 1619-1628		3
153	Artificial Intelligence Techniques for Flood Risk Management in Urban Environments. <i>Procedia Engineering</i> , 2014 , 70, 1505-1512		13
152	Decision Support for Optimal Design of Water Distribution Networks: A Real Options Approach. <i>Procedia Engineering</i> , 2014 , 70, 1074-1083		4
151	Using a Systematic, Multi-criteria Decision Support Framework to Evaluate Sustainable Drainage Designs. <i>Procedia Engineering</i> , 2014 , 70, 343-352		19
150	Decision Support System for emergency scheduling of raw water supply systems with multiple sources. <i>Frontiers of Environmental Science and Engineering</i> , 2013 , 7, 777-786	5.8	7
149	Understanding the efficient parallelisation of cellular automata on CPU and GPGPU hardware 2013 ,		3
148	Comparative Analysis of System Dynamics and Object-Oriented Bayesian Networks Modelling for Water Systems Management. <i>Water Resources Management</i> , 2013 , 27, 819-841	3.7	21
147	A general multi-objective hyper-heuristic for water distribution network design with discolouration risk. <i>Journal of Hydroinformatics</i> , 2013 , 15, 700-716	2.6	17
146	Using high performance techniques to accelerate demand-driven hydraulic solvers. <i>Journal of Hydroinformatics</i> , 2013 , 15, 38-54	2.6	12
145	Geostatistical techniques for approximate location of pipe burst events in water distribution systems. <i>Journal of Hydroinformatics</i> , 2013 , 15, 634-651	2.6	30
144	Formulation of a fast 2D urban pluvial flood model using a cellular automata approach. <i>Journal of Hydroinformatics</i> , 2013 , 15, 676-686	2.6	73
143	Integrated modelling of a coupled water-agricultural system using system dynamics. <i>Journal of Water and Climate Change</i> , 2013 , 4, 209-231	2.3	19
142	A coarse-grid approach to representing building blockage effects in 2D urban flood modelling. <i>Journal of Hydrology</i> , 2012 , 426-427, 1-16	6	47
141	Heuristic Modelling of the Water Resources Management in the Guadalquivir River Basin, Southern Spain. <i>Water Resources Management</i> , 2012 , 26, 185-209	3.7	18

140	Multi-layered coarse grid modelling in 2D urban flood simulations. <i>Journal of Hydrology</i> , 2012 , 470-471, 1-11	6	36
139	Battle of the Water Calibration Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012 , 138, 523-532	2.8	95
138	Integrated System Dynamics Modelling for water scarcity assessment: case study of the Kairouan region. <i>Science of the Total Environment</i> , 2012 , 440, 290-306	10.2	76
137	An evolutionary Bayesian belief network methodology for participatory decision making under uncertainty: an application to groundwater management. <i>Integrated Environmental Assessment and Management</i> , 2012 , 8, 456-61	2.5	14
136	A multi-objective optimisation model for sewer rehabilitation considering critical risk of failure. <i>Water Science and Technology</i> , 2012 , 66, 2410-7	2.2	22
135	Computationally Efficient Modeling Method for Large Water Network Analysis. <i>Journal of Hydraulic Engineering</i> , 2012 , 138, 313-326	1.8	25
134	Robust optimization methodologies for water supply systems design. <i>Drinking Water Engineering and Science</i> , 2012 , 5, 31-37	2	12
133	Robust optimization methodologies for water supply systems design 2012 ,		3
132	Multi-Objective Cuckoo Search for the Optimal Design of Water Distribution Systems 2012 ,		4
131	Calibration of a 1D/1D urban flood model using 1D/2D model results in the absence of field data. <i>Water Science and Technology</i> , 2011 , 64, 1016-24	2.2	49
130	Deficient-Network Simulation Considering Pressure-Dependent Demand 2011 ,		7
129	CWSNET: An Object-Oriented Toolkit for Water Distribution System Simulations 2011 ,		7
128	A Real-Time Intervention Management Model for Reducing Impacts Due to Pipe Isolation in Water Distribution Systems 2011 ,		4
127	Calibration of Water Distribution System Using Topological Analysis 2011 ,		4
126	A DSS generator for multiobjective optimisation of spreadsheet-based models. <i>Environmental Modelling and Software</i> , 2011 , 26, 551-561	5.2	83
125	Burst Detection and Location in Water Distribution Systems 2011 ,		11
124	Real-Time Leak Detection in Water Distribution Systems 2011 ,		7
123	Risk-Based Sensor Placement for Contaminant Detection in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010 , 136, 629-636	2.8	61

122	Prediction of weekly nitrate-N fluctuations in a small agricultural watershed in Illinois. <i>Journal of Hydroinformatics</i> , 2010 , 12, 251-261	2.6	25
121	Comparison of three data-driven techniques in modelling the evapotranspiration process. <i>Journal of Hydroinformatics</i> , 2010 , 12, 365-379	2.6	29
120	An analysis of the combined consequences of pluvial and fluvial flooding. <i>Water Science and Technology</i> , 2010 , 62, 1491-8	2.2	42
119	SLOTS: Effective Algorithm for Sensor Placement in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010 , 136, 620-628	2.8	35
118	A review of methods for leakage management in pipe networks. <i>Urban Water Journal</i> , 2010 , 7, 25-45	2.3	382
117	State of the Art for Genetic Algorithms and Beyond in Water Resources Planning and Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010 , 136, 412-432	2.8	410
116	Optimization of sensor locations for contaminant detection in water distribution networks 2010 ,		2
115	Identification of segments and optimal isolation valve system design in water distribution networks. <i>Urban Water Journal</i> , 2010 , 7, 1-15	2.3	89
114	Asset deterioration analysis using multi-utility data and multi-objective data mining. <i>Journal of Hydroinformatics</i> , 2009 , 11, 211-224	2.6	36
113	Resilient Behavior of Cement-Fiber Treated Reclaimed Asphalt Pavement Aggregates 2009 ,		7
112	A Rapid Optimization Prototyping Tool for Spreadsheet-Based Models 2009 ,		1
111	Operational Perspective of the Impact of Failures in Water Distribution Systems 2009 ,		4
110	Conceptual Risk-Based Decision Support Methodology for Improved Near Real-Time Response to WDS Failures 2009 ,		3
109	An effective multi-objective approach to prioritization of sewer pipe inspection. <i>Water Science and Technology</i> , 2009 , 60, 841-50	2.2	21
108	Influence of Swell Pressure from Expansive Fill on Retaining Wall Stability 2009 ,		6
107	Effects of Redesign of Water Systems for Security and Water Quality Factors 2009 ,		41
106	Efficient multi-objective optimal design of water distribution networks on a budget of simulations using hybrid algorithms. <i>Environmental Modelling and Software</i> , 2009 , 24, 202-213	5.2	72
105	An evolutionary Bayesian belief network methodology for optimum management of groundwater contamination. <i>Environmental Modelling and Software</i> , 2009 , 24, 303-310	5.2	65

104	Stochastic sampling design using a multi-objective genetic algorithm and adaptive neural networks. <i>Environmental Modelling and Software</i> , 2009 , 24, 530-541	5.2	102
103	Project Neptune: Improved Operation of Water Distribution Networks 2009 ,		2
102	Geotechnical Properties of Solidified Sludge by Mixing Cement and Calcium-Bentonite 2009 ,		2
101	Advances in data-driven analyses and modelling using EPR-MOGA. <i>Journal of Hydroinformatics</i> , 2009 , 11, 225-236	2.6	134
100	Probabilistic building block identification for the optimal design and rehabilitation of water distribution systems. <i>Journal of Hydroinformatics</i> , 2009 , 11, 89-105	2.6	20
99	A variable rate coefficient chlorine decay model. <i>Environmental Science & Technology</i> , 2009 , 43, 408-413	1.4	27
98	Comparison of 1D/1D and 1D/2D Coupled (Sewer/Surface) Hydraulic Models for Urban Flood Simulation. <i>Journal of Hydraulic Engineering</i> , 2009 , 135, 495-504	1.8	189
97	Quo vadis water distribution model calibration?. <i>Urban Water Journal</i> , 2009 , 6, 3-22	2.3	132
96	Instrumentation of MSE Wall Containing Laterally Loaded Drilled Shafts 2009 ,		4
95	Analysis of Pressure Management Economics in Water Distribution Systems 2009 ,		4
94	Assessing pipe failure rate and mechanical reliability of water distribution networks using data-driven modeling. <i>Journal of Hydroinformatics</i> , 2009 , 11, 1-17	2.6	89
93	Risk-Cost Based Decision Support System for the Rehabilitation of Water Distribution Networks 2009 ,		1
92	Probabilistic Building Block Identification for the Multi-Objective Design and Rehabilitation of Water Distribution Systems 2009 ,		1
91	Global and Evolutionary Optimization for Water Management Problems. <i>Water Science and Technology Library</i> , 2009 , 231-243	0.3	1
90	Evolutionary-based Meta-modelling: The Relevance of Using Approximate Models in Hydroinformatics. <i>Water Science and Technology Library</i> , 2009 , 275-290	0.3	1
89	Development of pipe deterioration models for water distribution systems using EPR. <i>Journal of Hydroinformatics</i> , 2008 , 10, 113-126	2.6	127
88	An evolutionary multiobjective strategy for the effective management of groundwater resources. <i>Water Resources Research</i> , 2008 , 44,	5.4	26
87	An Efficient Algorithm for Sensor Placement in Water Distribution Systems 2008 ,		5

86	Algorithm for Automatic Detection of Topological Changes in Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 435-446	1.8	58
85	Pressure-Driven Demand and Leakage Simulation for Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 626-635	1.8	237
84	Probabilistic Leak Detection in Pipe Networks Using the SCEM-UA Algorithm 2008 ,		5
83	The Battle of the Water Sensor Networks (BWSN): A Design Challenge for Engineers and Algorithms. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008 , 134, 556-568	2.8	357
82	Extended Period Simulation Analysis Considering Valve Shutdowns. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008 , 134, 527-537	2.8	48
81	Attribution of flood risk in urban areas. <i>Journal of Hydroinformatics</i> , 2008 , 10, 275-288	2.6	73
80	Discussion of Optimization of Water Distribution Networks Using Integer and Linear Programming by Hossein M. V. Samani and Alireza Mottaghi. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 1024-1025	1.8	3
79	Water Quality Model Calibration under Unknown Demands. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008 , 134, 326-336	2.8	20
78	Probabilistic prediction of urban water consumption using the SCEM-UA algorithm. <i>Urban Water Journal</i> , 2008 , 5, 125-132	2.3	73
77	Development of pipe deterioration models for water distribution systems using EPR. <i>Journal of Hydroinformatics</i> , 2008 , 10, 265-265	2.6	2
76	An investigation on stream temperature analysis based on evolutionary computing. <i>Hydrological Processes</i> , 2008 , 22, 315-326	3.3	21
75	Development and validation of system design principles for water reuse systems. <i>Desalination</i> , 2008 , 218, 142-153	10.3	19
74	Optimum Design and Management of Pressurized Branched Irrigation Networks. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2007 , 133, 528-537	1.1	33
73	Calibration of Water Distribution Hydraulic Models Using a Bayesian-Type Procedure. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 927-936	1.8	65
72	A multi-model approach to analysis of environmental phenomena. <i>Environmental Modelling and Software</i> , 2007 , 22, 674-682	5.2	77
71	Neighbourhood Search for constructing Pareto sets. <i>Mathematical Methods of Operations Research</i> , 2007 , 65, 315-337	1	1
70	Economic considerations and decision support tool for wastewater reuse scheme planning. <i>Water Science and Technology</i> , 2007 , 56, 175-82	2.2	40
69	Real-time modelling of a major water supply system. <i>Water Management</i> , 2007 , 160, 103-108	1	7

68	An Investigation on Preference Order Ranking Scheme for Multiobjective Evolutionary Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2007 , 11, 17-45	15.6	206
67	Tank Simulation for the Optimization of Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 625-636	1.8	16
66	Robust Least-Cost Design of Water Distribution Networks Using Redundancy and Integration-Based Methodologies. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2007 , 133, 67-77	2.8	35
65	Multi-objective optimization of water distribution system design under uncertain demand and pipe roughness 2007 , 161-172		4
64	Explicit Integration Method for Extended-Period Simulation of Water Distribution Systems. <i>Journal of Hydraulic Engineering</i> , 2006 , 132, 385-392	1.8	7
63	Comparison of two methods for the stochastic least cost design of water distribution systems. <i>Engineering Optimization</i> , 2006 , 38, 281-297	2	15
62	Fuzzy hierarchical decision support system for water distribution network optimization. <i>Civil Engineering and Environmental Systems</i> , 2006 , 23, 237-261	2.1	16
61	Economic level of reliability for the rehabilitation of hydraulic networks. <i>Civil Engineering and Environmental Systems</i> , 2006 , 23, 191-207	2.1	15
60	Development of rehabilitation plans for water mains replacement considering risk and cost-benefit assessment. <i>Civil Engineering and Environmental Systems</i> , 2006 , 23, 175-190	2.1	53
59	Modelling sewer failure by evolutionary computing. <i>Water Management</i> , 2006 , 159, 111-118	1	42
58	An integrated approach to least-cost planning of water reuse schemes. <i>Water Science and Technology: Water Supply</i> , 2006 , 6, 93-100	1.4	3
57	A decision support framework for sustainable urban water planning and management in new urban areas. <i>Water Science and Technology</i> , 2006 , 54, 451-8	2.2	8
56	Risk- and robustness-based solutions to a multi-objective water distribution system rehabilitation problem under uncertainty. <i>Water Science and Technology</i> , 2006 , 53, 61-75	2.2	36
55	From single-objective to multiple-objective multiple-rainfall events automatic calibration of urban storm water runoff models using genetic algorithms. <i>Water Science and Technology</i> , 2006 , 54, 57-64	2.2	18
54	Wastewater reuse in Europe. <i>Desalination</i> , 2006 , 187, 89-101	10.3	314
53	Development of an integrated simulation model for treatment and distribution of reclaimed water. <i>Desalination</i> , 2006 , 188, 9-20	10.3	20
52	Incorporating spatial and temporal information for urban drainage model calibration: An approach using preference ordering genetic algorithm. <i>Advances in Water Resources</i> , 2006 , 29, 1168-1181	4.7	15
51	Water Supply Reservoir Operation by Combined Genetic Algorithm Linear Programming (GA-LP) Approach. <i>Water Resources Management</i> , 2006 , 20, 227-255	3.7	34

50	Evolutionary multi-objective optimization in water distribution network design. <i>Engineering Optimization</i> , 2005 , 37, 167-183	2	127
49	Optimal Sampling Design Methodologies for Water Distribution Model Calibration. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 190-200	1.8	56
48	Fuzzy Rules for Hydraulic Reliability-Based Design and Operation of Water Distribution Systems 2005 , 1		0
47	Multiobjective design of water distribution systems under uncertainty. <i>Water Resources Research</i> , 2005 , 41,	5.4	137
46	Least-Cost Design of Water Distribution Networks under Demand Uncertainty. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005 , 131, 375-382	2.8	117
45	Trade-off between Total Cost and Reliability for Anytown Water Distribution Network. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005 , 131, 161-171	2.8	187
44	Fuzzy Multiobjective Optimization of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005 , 131, 467-476	2.8	62
43	An Efficient Sampling-Based Approach for the Robust Rehabilitation of Water Distribution Systems Under Correlated Nodal Demands 2005 , 1		5
42	Decision-support tools for sustainable urban development. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2005 , 158, 135-142	0.9	23
41	Multi-Reservoir Operation Planning Using Hybrid Genetic Algorithm and Linear Programming (GA-LP): An Alternative Stochastic Approach. <i>Water Resources Management</i> , 2005 , 19, 831-848	3.7	37
40	Automatic calibration of urban drainage model using a novel multi-objective genetic algorithm. <i>Water Science and Technology</i> , 2005 , 52, 43-52	2.2	11
39	SIPSON Simulation of Interaction between Pipe flow and Surface Overland flow in Networks. <i>Water Science and Technology</i> , 2005 , 52, 275-283	2.2	89
38	Municipal wastewater reclamation: where do we stand? An overview of treatment technology and management practice. <i>Water Science and Technology: Water Supply</i> , 2005 , 5, 77-85	1.4	41
37	Self-Adaptive Fitness Formulation for Evolutionary Constrained Optimization of Water Systems. <i>Journal of Computing in Civil Engineering</i> , 2005 , 19, 212-216	5	15
36	Multiobjective Optimization for the Least-Cost Design of Water Distribution System Under Correlated Uncertain Parameters 2005 , 1		9
35	Booster Disinfection of Water Supply Networks: Multiobjective Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2004 , 130, 367-376	2.8	95
34	The Simultaneous Multi-Objective Optimization of Anytown Pipe Rehabilitation, Tank Sizing, Tank Siting, and Pump Operation Schedules 2004 , 1		8
33	Operational Optimization of Water Distribution Systems Using a Hybrid Genetic Algorithm. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2004 , 130, 160-170	2.8	180

32	Optimised Conjunctive Control Rules for a System of Water Supply Sources: Roadford Reservoir System (U.K.). <i>Water Resources Management</i> , 2003 , 17, 183-196	3.7	6
31	Symbolic and numerical regression: experiments and applications. <i>Information Sciences</i> , 2003 , 150, 95-117	7	55
30	Water Reservoir Control with Data Mining. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2003 , 129, 26-34	2.8	46
29	Multiobjective Sampling Design for Water Distribution Model Calibration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2003 , 129, 466-479	2.8	91
28	Whole life costing: application to water distribution network. <i>Water Science and Technology: Water Supply</i> , 2003 , 3, 87-93	1.4	10
27	Determining maintenance requirements of a water distribution network using whole life costing. <i>Journal of Quality in Maintenance Engineering</i> , 2002 , 8, 152-164	1.1	9
26	Use of Prior Information on Parameters in Inverse Transient Analysis for Leak Detection and Roughness Calibration 2001 , 1		2
25	Water System Reliability Predictions Using Data Mining 2001 , 1		
24	Evolutionary Computing in Water Distribution and Wastewater Systems 2001 , 1		1
23	An Explicit Integration Technique for Dynamic Modeling of Water Distribution Systems 2001 , 1		1
22	Symbolic and Numerical Regression: Experiments and Applications 2001 , 175-182		2
21	Using Genetic Algorithms in the UK Water Industry 2000 , 1		1
20	Cost Savings on Large Water Distribution Systems: Design through Genetic Algorithm Optimization 2000 , 1		8
19	Method for the identification of explicit polynomial formulae for the friction in turbulent pipe flow. <i>Journal of Hydroinformatics</i> , 1999 , 1, 115-126	2.6	37
18	Scheduling of water distribution system rehabilitation using structured messy genetic algorithms. <i>Evolutionary Computation</i> , 1999 , 7, 311-29	4.3	30
17	A Genetic Programming Approach to Rainfall-Runoff Modelling. <i>Water Resources Management</i> , 1999 , 13, 219-231	3.7	158
16	IMPLEMENTATION OF GENERALISED CROSS-CORRELATION WITH LARGE CHANGES IN PARAMETERS USING GENETIC ALGORITHMS. <i>Engineering Optimization</i> , 1999 , 31, 489-513	2	
15	Hydroinformatics technology and maintenance of UK water networks. <i>Journal of Quality in Maintenance Engineering</i> , 1997 , 3, 289-301	1.1	7

14	Evolving sustainable water networks. <i>Hydrological Sciences Journal</i> , 1997 , 42, 549-564	3.5	16
13	Water Network Rehabilitation with Structured Messy Genetic Algorithm. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1997 , 123, 137-146	2.8	210
12	Optimal opportunistic maintenance policy using genetic algorithms, 1: formulation. <i>Journal of Quality in Maintenance Engineering</i> , 1995 , 1, 34-49	1.1	21
11	AN EVOLUTION PROGRAM FOR OPTIMAL PRESSURE REGULATION IN WATER DISTRIBUTION NETWORKS. <i>Engineering Optimization</i> , 1995 , 24, 197-219	2	50
10	Optimal, opportunistic maintenance policy using genetic algorithms, 2: analysis. <i>Journal of Quality in Maintenance Engineering</i> , 1995 , 1, 25-34	1.1	10
9	Evaluation of fuzzy linear regression models. <i>Fuzzy Sets and Systems</i> , 1991 , 39, 51-63	3.7	211
8	Selecting risk levels in chance-constrained reservoir operation modeling: A fuzzy set approach. <i>Water Resources Management</i> , 1991 , 4, 251-271	3.7	5
7	An Interactive Approach to Selection and Use of Single Multipurpose Reservoir Models. <i>Water Resources Research</i> , 1991 , 27, 2509-2521	5.4	5
6	Intelligent Decision Support and Reservoir Management and Operations. <i>Journal of Computing in Civil Engineering</i> , 1989 , 3, 367-385	5	30
5	Hybridising rule induction and multi-objective evolutionary search for optimising water distribution systems		6
4	Modelling gene regulatory data using artificial neural networks		8
3	Evolving rules from neural networks trained on continuous data		2
2	Evolutionary Bayesian Belief Networks for Participatory Water Resources Management under Uncertainty		156-171
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