

Orazio Giustolisi

List of Publications by Year in descending order

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122
papers

3,943
citations

109321

35
h-index

133252

59
g-index

130
all docs

130
docs citations

130
times ranked

1983
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological and hydraulic metrics-based search space reduction for optimal re-sizing of water distribution networks. <i>Journal of Hydroinformatics</i> , 2022, 24, 610-621.	2.4	6
2	A Novel Approach to Analyze the Isolation Valve System Based on the Complex Network Theory. <i>Water Resources Research</i> , 2022, 58, .	4.2	9
3	Reliability analysis of complex water distribution systems: the role of the network connectivity and tanks. <i>Journal of Hydroinformatics</i> , 2022, 24, 128-142.	2.4	7
4	Calibration of Design Models for Leakage Management of Water Distribution Networks. <i>Water Resources Management</i> , 2021, 35, 2537-2551.	3.9	22
5	Effects of Orifice Diameter and Retention Time of Local Tanks on the Reliability and Carbon Footprint of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, 05021023.	2.6	0
6	Digital Transformation Paradigm for Asset Management in Water Distribution Networks. , 2021, , .		5
7	Water Distribution Network Reliability Assessment and Isolation Valve System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, 04019064.	2.6	33
8	Edge betweenness for water distribution networks domain analysis. <i>Journal of Hydroinformatics</i> , 2020, 22, 121-131.	2.4	13
9	Embedding the intrinsic relevance of vertices in network analysis: the case of centrality metrics. <i>Scientific Reports</i> , 2020, 10, 3297.	3.3	29
10	Integrated pressure control strategies for sustainable management of water distribution networks. <i>E3S Web of Conferences</i> , 2019, 85, 06005.	0.5	3
11	Tailoring Centrality Metrics for Water Distribution Networks. <i>Water Resources Research</i> , 2019, 55, 2348-2369.	4.2	47
12	Supporting Design of Combined Energy Recovery and Pressure Control in a Water Distribution System. , 2019, , .		0
13	Modelling an Urban Groundwater Well Field with WNetXL/WNetGIS. , 2019, , .		0
14	Advanced Hydraulic Analysis for Energy Assessment in a Real Water Distribution Network. , 2019, , .		0
15	Towards serious gaming for water distribution networks sizing: a teaching experiment. <i>Journal of Hydroinformatics</i> , 2019, 21, 207-222.	2.4	5
16	Modularity Index for Optimal Sensor Placement in WDNs. <i>Springer Water</i> , 2018, , 433-447.	0.3	1
17	Flexible investment planning for water distribution networks. <i>Journal of Hydroinformatics</i> , 2018, 20, 18-33.	2.4	4
18	Relevance of hydraulic modelling in planning and operating real-time pressure control: case of OpegÅrd municipality. <i>Journal of Hydroinformatics</i> , 2018, 20, 535-550.	2.4	14

#	ARTICLE	IF	CITATIONS
19	Estimating Leakages in Water Distribution Networks Based Only on Inlet Flow Data. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	19
20	Optimal Design of District Metering Areas for the Reduction of Leakages. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	55
21	Strategies for the electric regulation of pressure control valves. Journal of Hydroinformatics, 2017, 19, 621-639.	2.4	18
22	Network structure classification and features of water distribution systems. Water Resources Research, 2017, 53, 3407-3423.	4.2	41
23	Feasibility of Mass Balance Approach to Water Distribution Network Model Calibration. Procedia Engineering, 2017, 186, 551-558.	1.2	8
24	A Proposal of Optimal Sampling Design Using Infrastructure Modularity. Procedia Engineering, 2017, 186, 559-566.	1.2	0
25	Reducing background leakages and energy consumption in a real WDN by optimal DMA design. , 2017, , .		2
26	Optimal pump scheduling strategies accounting for background leakages and energy cost. , 2017, , .		0
27	Water Network Design Using a Multiobjective Real Options Framework. Journal of Optimization, 2017, 2017, 1-13.	6.0	6
28	Selection of relevant input variables in storm water quality modeling by multiobjective evolutionary polynomial regression paradigm. Water Resources Research, 2016, 52, 2403-2419.	4.2	20
29	Enhanced WDN Hydraulic Modelling and Detection of Burst Leakages. Procedia Engineering, 2016, 162, 3-14.	1.2	5
30	Optimal Design of District Metering Areas. Procedia Engineering, 2016, 162, 403-410.	1.2	8
31	A Methodology to Estimate Leakages in Water Distribution Networks Based on Inlet Flow Data Analysis. Procedia Engineering, 2016, 162, 411-418.	1.2	13
32	Special Issue on the Battle of Background Leakage Assessment for Water Networks. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	6
33	Detecting anomalies in water distribution networks using EPR modelling paradigm. Journal of Hydroinformatics, 2016, 18, 409-427.	2.4	47
34	Active Leakage Control with WDNNetXL. Procedia Engineering, 2016, 154, 62-70.	1.2	9
35	Supporting Real-time Pressure Control in Oppegård Municipality with WDNNetXL. Procedia Engineering, 2016, 154, 71-79.	1.2	8
36	A proposal of optimal sampling design using a modularity strategy. Water Resources Research, 2016, 52, 6171-6185.	4.2	26

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37	Operational and Tactical Management of Water and Energy Resources in Pressurized Systems: Competition at WDSA 2014. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	44
38	Leakage Management: Planning Remote Real Time Controlled Pressure Reduction in Oppegård Municipality. Procedia Engineering, 2015, 119, 72-81.	1.2	21
39	Leakage Management: WNetXL Pressure Control Module. Procedia Engineering, 2015, 119, 82-90.	1.2	16
40	WNetXL: Hydraulic and Topology Analysis Integration and Features. Procedia Engineering, 2015, 119, 669-679.	1.2	6
41	General metrics for segmenting infrastructure networks. Journal of Hydroinformatics, 2015, 17, 505-517.	2.4	16
42	Water Distribution System Modeling and Optimization: A Case Study. Procedia Engineering, 2015, 119, 719-724.	1.2	7
43	Hydraulic System Modelling: Background Leakage Model Calibration in Oppegård Municipality. Procedia Engineering, 2015, 119, 633-642.	1.2	8
44	Vulnerability Assessment of Water Distribution Networks under Seismic Actions. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	40
45	New Modularity-Based Approach to Segmentation of Water Distribution Networks. Journal of Hydraulic Engineering, 2014, 140, .	1.5	78
46	A Strategy for Real Options from Multi-objective Optimal Design. Procedia Engineering, 2014, 89, 831-838.	1.2	0
47	Dealing with Uncertainty through Real Options for the Multi-objective Design of Water Distribution Networks. Procedia Engineering, 2014, 89, 856-863.	1.2	7
48	Study on relationships between climate-related covariates and pipe bursts using evolutionary-based modelling. Journal of Hydroinformatics, 2014, 16, 743-757.	2.4	43
49	Modeling Local Water Storages Delivering Customer Demands in WDN Models. Journal of Hydraulic Engineering, 2014, 140, 89-104.	1.5	19
50	Testing linear solvers for global gradient algorithm. Journal of Hydroinformatics, 2014, 16, 1178-1193.	2.4	7
51	Supporting Decision on Energy vs. Asset Cost Optimization in Drinking Water Distribution Networks. Procedia Engineering, 2014, 70, 734-743.	1.2	9
52	Optimal Water Distribution Network Design Accounting for Valve Shutdowns. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 277-287.	2.6	17
53	Accounting for Local Water Storages in Assessing WDN Supply Capacity. Procedia Engineering, 2014, 70, 142-151.	1.2	1
54	Energy Saving and Leakage Control in Water Distribution Networks: A Joint Research Project between Italy and China. Procedia Engineering, 2014, 70, 152-161.	1.2	4

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55	Seismic Reliability Assessment of Water Distribution Networks. <i>Procedia Engineering</i> , 2014, 70, 998-1007.	1.2	5
56	A novel infrastructure modularity index for the segmentation of water distribution networks. <i>Water Resources Research</i> , 2014, 50, 7648-7661.	4.2	43
57	Assessing mechanical vulnerability in water distribution networks under multiple failures. <i>Water Resources Research</i> , 2014, 50, 2586-2599.	4.2	40
58	Battle of Background Leakage Assessment for Water Networks (BBLAWN) at WDSA Conference 2014. <i>Procedia Engineering</i> , 2014, 89, 4-12.	1.2	27
59	Modularity Index for Hydraulic System Segmentation. <i>Procedia Engineering</i> , 2014, 89, 1152-1159.	1.2	3
60	WQNetXL: A MS-excel Water Quality System Tool for WDNs. <i>Procedia Engineering</i> , 2014, 89, 262-272.	1.2	2
61	Simulating floods in ephemeral streams in Southern Italy by full-2D hydraulic models. <i>International Journal of River Basin Management</i> , 2013, 11, 1-17.	2.7	13
62	Operational Optimization: Water Losses versus Energy Costs. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 410-423.	1.5	48
63	Computationally Efficient Modeling Method for Large Water Network Analysis. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 313-326.	1.5	32
64	Accounting for Directional Devices in WDN Modeling. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 858-869.	1.5	12
65	Demand Components in Water Distribution Network Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 356-367.	2.6	108
66	Assessing climate change and asset deterioration impacts on water distribution networks: Demand-driven or pressure-driven network modeling?. <i>Environmental Modelling and Software</i> , 2012, 37, 206-216.	4.5	31
67	The activation of ephemeral streams in karst catchments of semi-arid regions. <i>Catena</i> , 2012, 99, 54-65.	5.0	16
68	Generalizing WDN simulation models to variable tank levels. <i>Journal of Hydroinformatics</i> , 2012, 14, 562-573.	2.4	39
69	Battle of the Water Calibration Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 523-532.	2.6	134
70	Calibration of Water Distribution System Using Topological Analysis. , 2011, , .		4
71	Modelling mechanical behaviour of rubber concrete using evolutionary polynomial regression. <i>Engineering Computations</i> , 2011, 28, 492-507.	1.4	29
72	Water Distribution Network Pressure-Driven Analysis Using the Enhanced Global Gradient Algorithm (EGGA). <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 498-510.	2.6	35

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73	Advancements in Water Distribution Network Simulation by Enhanced GGA. , 2011, , .		2
74	Some explicit formulations of Colebrookâ€™White friction factor considering accuracy vs. computational speed. Journal of Hydroinformatics, 2011, 13, 401-418.	2.4	34
75	A Tool for Preliminary WDN Topological Analysis. , 2011, , .		2
76	Scour depth modelling by a multi-objective evolutionary paradigm. Environmental Modelling and Software, 2011, 26, 498-509.	4.5	68
77	Analysis of Simplification Errors for Water Distribution Models. , 2011, , .		1
78	Water distribution network calibration using enhanced GGA and topological analysis. Journal of Hydroinformatics, 2011, 13, 621-641.	2.4	17
79	Evaluation of liquefaction potential based on CPT results using evolutionary polynomial regression. Computers and Geotechnics, 2010, 37, 82-92.	4.7	58
80	Accounting for uniformly distributed pipe demand in WDN analysis: enhanced GGA. Urban Water Journal, 2010, 7, 243-255.	2.1	21
81	Inferring groundwater system dynamics from hydrological time-series data. Hydrological Sciences Journal, 2010, 55, 593-608.	2.6	32
82	Prediction of weekly nitrate-N fluctuations in a small agricultural watershed in Illinois. Journal of Hydroinformatics, 2010, 12, 251-261.	2.4	30
83	Comparison of three data-driven techniques in modelling the evapotranspiration process. Journal of Hydroinformatics, 2010, 12, 365-379.	2.4	36
84	Considering Actual Pipe Connections in Water Distribution Network Analysis. Journal of Hydraulic Engineering, 2010, 136, 889-900.	1.5	35
85	Identification of segments and optimal isolation valve system design in water distribution networks. Urban Water Journal, 2010, 7, 1-15.	2.1	121
86	Scenarios of Contaminant Diffusion on a Medium Size Urban Water Distribution Network. , 2009, , .		0
87	Asset deterioration analysis using multi-utility data and multi-objective data mining. Journal of Hydroinformatics, 2009, 11, 211-224.	2.4	46
88	Enhanced WDN Analysis: Representation of Actual Pipe Connections. , 2009, , .		0
89	Optimal Design of Isolation Valve System for Water Distribution Networks. , 2009, , .		1
90	An effective multi-objective approach to prioritisation of sewer pipe inspection. Water Science and Technology, 2009, 60, 841-850.	2.5	28

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91	An integrated modelling approach for the assessment of land use change effects on wastewater infrastructures. <i>Environmental Modelling and Software</i> , 2009, 24, 1522-1528.	4.5	17
92	Advances in data-driven analyses and modelling using EPR-MOGA. <i>Journal of Hydroinformatics</i> , 2009, 11, 225-236.	2.4	176
93	Pipe hydraulic resistance correction in WDN analysis. <i>Urban Water Journal</i> , 2009, 6, 39-52.	2.1	55
94	New Concepts and Tools for Pipe Network Design. , 2009, , .		2
95	Deterministic versus Stochastic Design of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009, 135, 117-127.	2.6	87
96	Prioritizing Pipe Replacement: From Multiobjective Genetic Algorithms to Operational Decision Support. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009, 135, 484-492.	2.6	43
97	Enhanced Global Gradient Algorithm: A General Formulation. , 2009, , .		1
98	An Operative Approach to Water Distribution System Rehabilitation. , 2009, , .		0
99	Detecting Topological Changes in Large Water Distribution Networks. , 2009, , .		3
100	Optimal Pipe Replacement Accounting for Leakage Reduction and Isolation Valves. , 2009, , .		1
101	An investigation on stream temperature analysis based on evolutionary computing. <i>Hydrological Processes</i> , 2008, 22, 315-326.	2.6	24
102	Development of pipe deterioration models for water distribution systems using EPR. <i>Journal of Hydroinformatics</i> , 2008, 10, 113-126.	2.4	166
103	An evolutionary multiobjective strategy for the effective management of groundwater resources. <i>Water Resources Research</i> , 2008, 44, .	4.2	37
104	Algorithm for Automatic Detection of Topological Changes in Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 435-446.	1.5	82
105	An evolutionary-based data mining technique for assessment of civil engineering systems. <i>Engineering Computations</i> , 2008, 25, 500-517.	1.4	57
106	Pressure-Driven Demand and Leakage Simulation for Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 626-635.	1.5	306
107	Extended Period Simulation Analysis Considering Valve Shutdowns. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 527-537.	2.6	60
108	Determination of friction factor for corrugated drains. <i>Water Management</i> , 2008, 161, 31-42.	1.2	4

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109	A Simulation Model for Detecting Topological Changes in a Water Distribution Network. , 2007, , 1.		4
110	Ensemble modeling approach for rainfall/groundwater balancing. Journal of Hydroinformatics, 2007, 9, 95-106.	2.4	8
111	A multi-model approach to analysis of environmental phenomena. Environmental Modelling and Software, 2007, 22, 674-682.	4.5	105
112	Development of rehabilitation plans for water mains replacement considering risk and cost-benefit assessment. Civil Engineering and Environmental Systems, 2006, 23, 175-190.	0.9	71
113	Using a multi-objective genetic algorithm for SVM construction. Journal of Hydroinformatics, 2006, 8, 125-139.	2.4	13
114	A symbolic data-driven technique based on evolutionary polynomial regression. Journal of Hydroinformatics, 2006, 8, 207-222.	2.4	272
115	Modelling sewer failure by evolutionary computing. Water Management, 2006, 159, 111-118.	1.2	51
116	Optimal design of artificial neural networks by a multi-objective strategy: groundwater level predictions. Hydrological Sciences Journal, 2006, 51, 502-523.	2.6	61
117	Improving generalization of artificial neural networks in rainfall-runoff modelling / Amélioration de la généralisation de réseaux de neurones artificiels pour la modélisation pluie-débit. Hydrological Sciences Journal, 2005, 50, .	2.6	89
118	Report on Hydroinformatics 2004, Singapore. Journal of Hydroinformatics, 2005, 7, 1-2.	2.4	1
119	Using genetic programming to determine Chzy resistance coefficient in corrugated channels. Journal of Hydroinformatics, 2004, 6, 157-173.	2.4	90
120	Sparse solution in training artificial neural networks. Neurocomputing, 2004, 56, 285-304.	5.9	13
121	Input-output dynamic neural networks simulating inflow-outflow phenomena in an urban hydrological basin. Journal of Hydroinformatics, 2000, 2, 269-279.	2.4	11
122	Analysis of the isolation valve system in water distribution networks using the segment graph. Water Resources Management, 0, , .	3.9	7