

Hossein Bonakdari

List of Publications by Year in descending order

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254
papers

6,339
citations

57758
44
h-index

128289
60
g-index

267
all docs

267
docs citations

267
times ranked

3170
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. Journal of Hydrology, 2017, 554, 263-276.	5.4	192
2	Gene expression programming to predict the discharge coefficient in rectangular side weirs. Applied Soft Computing Journal, 2015, 35, 618-628.	7.2	114
3	Application of firefly algorithm-based support vector machines for prediction of field capacity and permanent wilting point. Soil and Tillage Research, 2017, 172, 32-38.	5.6	106
4	Rainfall Pattern Forecasting Using Novel Hybrid Intelligent Model Based ANFIS-FFA. Water Resources Management, 2018, 32, 105-122.	3.9	101
5	Performance Evaluation of Adaptive Neural Fuzzy Inference System for Sediment Transport in Sewers. Water Resources Management, 2014, 28, 4765-4779.	3.9	90
6	GMDH-type neural network approach for modeling the discharge coefficient of rectangular sharp-crested side weirs. Engineering Science and Technology, an International Journal, 2015, 18, 746-757.	3.2	89
7	An integrated framework of Extreme Learning Machines for predicting scour at pile groups in clear water condition. Coastal Engineering, 2018, 135, 1-15.	4.0	89
8	Novel hybrid linear stochastic with non-linear extreme learning machine methods for forecasting monthly rainfall a tropical climate. Journal of Environmental Management, 2018, 222, 190-206.	7.8	82
9	Comparative analysis of GMDH neural network based on genetic algorithm and particle swarm optimization in stable channel design. Applied Mathematics and Computation, 2017, 313, 271-286.	2.2	80
10	Evaluation of Sediment Transport in Sewer using Artificial Neural Network. Engineering Applications of Computational Fluid Mechanics, 2013, 7, 382-392.	3.1	78
11	Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis. Water (Switzerland), 2019, 11, 502.	2.7	78
12	Implementation of Univariate Paradigm for Streamflow Simulation Using Hybrid Data-Driven Model: Case Study in Tropical Region. IEEE Access, 2019, 7, 74471-74481.	4.2	76
13	Pareto genetic design of group method of data handling type neural network for prediction discharge coefficient in rectangular side orifices. Flow Measurement and Instrumentation, 2015, 41, 67-74.	2.0	71
14	Predicting wastewater treatment plant quality parameters using a novel hybrid linear-nonlinear methodology. Journal of Environmental Management, 2019, 240, 463-474.	7.8	71
15	A reliable linear stochastic daily soil temperature forecast model. Soil and Tillage Research, 2019, 189, 73-87.	5.6	71
16	Integrated SARIMA with Neuro-Fuzzy Systems and Neural Networks for Monthly Inflow Prediction. Water Resources Management, 2017, 31, 2141-2156.	3.9	68
17	Adaptive neuro-fuzzy inference system multi-objective optimization using the genetic algorithm/singular value decomposition method for modelling the discharge coefficient in rectangular sharp-crested side weirs. Engineering Optimization, 2016, 48, 933-948.	2.6	65
18	Evolutionary design of generalized group method of data handling-type neural network for estimating the hydraulic jump roller length. Acta Mechanica, 2018, 229, 1197-1214.	2.1	63

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19	Lake Water-Level fluctuations forecasting using Minimax Probability Machine Regression, Relevance Vector Machine, Gaussian Process Regression, and Extreme Learning Machine. <i>Water Resources Management</i> , 2019, 33, 3965-3984.	3.9	63
20	Design of radial basis function-based support vector regression in predicting the discharge coefficient of a side weir in a trapezoidal channel. <i>Applied Water Science</i> , 2019, 9, 1.	5.6	62
21	New insights into soil temperature time series modeling: linear or nonlinear?. <i>Theoretical and Applied Climatology</i> , 2019, 135, 1157-1177.	2.8	62
22	Turbulent velocity profile in fully-developed open channel flows. <i>Environmental Fluid Mechanics</i> , 2008, 8, 1-17.	1.6	61
23	Forecasting monthly inflow with extreme seasonal variation using the hybrid SARIMA-ANN model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 1997-2010.	4.0	61
24	Determination of the most influential weather parameters on reference evapotranspiration by adaptive neuro-fuzzy methodology. <i>Computers and Electronics in Agriculture</i> , 2015, 114, 277-284.	7.7	60
25	Extreme learning machine assessment for estimating sediment transport in open channels. <i>Engineering With Computers</i> , 2016, 32, 691-704.	6.1	60
26	Evolutionary Pareto optimization of an ANFIS network for modeling scour at pile groups in clear water condition. <i>Fuzzy Sets and Systems</i> , 2017, 319, 50-69.	2.7	59
27	Proposing a novel hybrid intelligent model for the simulation of particle size distribution resulting from blasting. <i>Engineering With Computers</i> , 2019, 35, 47-56.	6.1	59
28	Design of a support vector machine with different kernel functions to predict scour depth around bridge piers. <i>Natural Hazards</i> , 2016, 84, 2145-2162.	3.4	58
29	Uncertainty analysis of intelligent model of hybrid genetic algorithm and particle swarm optimization with ANFIS to predict threshold bank profile shape based on digital laser approach sensing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 121, 294-303.	5.0	58
30	Development of more accurate discharge coefficient prediction equations for rectangular side weirs using adaptive neuro-fuzzy inference system and generalized group method of data handling. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 116, 473-482.	5.0	58
31	Prediction of scour depth around bridge piers using self-adaptive extreme learning machine. <i>Journal of Hydroinformatics</i> , 2017, 19, 207-224.	2.4	56
32	Sensitivity analysis of the factors affecting the discharge capacity of side weirs in trapezoidal channels using extreme learning machines. <i>Flow Measurement and Instrumentation</i> , 2017, 54, 216-223.	2.0	54
33	Numerical Analysis and Prediction of the Velocity Field in Curved Open Channel Using Artificial Neural Network and Genetic Algorithm. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2011, 5, 384-396.	3.1	53
34	Combination of Computational Fluid Dynamics, Adaptive Neuro-Fuzzy Inference System, and Genetic Algorithm for Predicting Discharge Coefficient of Rectangular Side Orifices. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2017, 143, .	1.0	53
35	A reliable linear method for modeling lake level fluctuations. <i>Journal of Hydrology</i> , 2019, 570, 236-250.	5.4	53
36	Abutment scour depth modeling using neuro-fuzzy-embedded techniques. <i>Marine Georesources and Geotechnology</i> , 2019, 37, 190-200.	2.1	53

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37	Estimating 2-year flood flows using the generalized structure of the Group Method of Data Handling. <i>Journal of Hydrology</i> , 2019, 575, 671-689.	5.4	52
38	A Highly Efficient Gene Expression Programming Model for Predicting the Discharge Coefficient in a Side Weir along a Trapezoidal Canal. <i>Irrigation and Drainage</i> , 2017, 66, 655-666.	1.7	51
39	Design criteria for sediment transport in sewers based on self-cleansing concept. <i>Journal of Zhejiang University: Science A</i> , 2014, 15, 914-924.	2.4	50
40	Genetic-Algorithm-Optimized Sequential Model for Water Temperature Prediction. <i>Sustainability</i> , 2020, 12, 5374.	3.2	50
41	Performance evaluation of two different neural network and particle swarm optimization methods for prediction of discharge capacity of modified triangular side weirs. <i>Flow Measurement and Instrumentation</i> , 2014, 40, 149-156.	2.0	48
42	A combined support vector machine-wavelet transform model for prediction of sediment transport in sewer. <i>Flow Measurement and Instrumentation</i> , 2016, 47, 19-27.	2.0	47
43	Combination of sensitivity and uncertainty analyses for sediment transport modeling in sewer pipes. <i>International Journal of Sediment Research</i> , 2020, 35, 157-170.	3.5	47
44	Comparison between Shannon and Tsallis entropies for prediction of shear stress distribution in open channels. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 1-11.	4.0	46
45	Assessment of evolutionary algorithms in predicting non-deposition sediment transport. <i>Urban Water Journal</i> , 2016, 13, 499-510.	2.1	46
46	Bed load sediment transport estimation in a clean pipe using multilayer perceptron with different training algorithms. <i>KSCE Journal of Civil Engineering</i> , 2016, 20, 581-589.	1.9	46
47	Experimental and Numerical Study on Velocity Fields and Water Surface Profile in a Strongly-Curved 90° Open Channel Bend. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2014, 8, 447-461.	3.1	44
48	Developing an expert group method of data handling system for predicting the geometry of a stable channel with a gravel bed. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1460-1471.	2.5	44
49	Predicting discharge coefficient of triangular labyrinth weir using extreme learning machine, artificial neural network and genetic programming. <i>Neural Computing and Applications</i> , 2018, 29, 983-989.	5.6	44
50	Impact of Normalization and Input on ARMAX-ANN Model Performance in Suspended Sediment Load Prediction. <i>Water Resources Management</i> , 2018, 32, 845-863.	3.9	44
51	Sediment transport modeling in rigid boundary open channels using generalize structure of group method of data handling. <i>Journal of Hydrology</i> , 2019, 577, 123951.	5.4	44
52	Design of an adaptive neuro-fuzzy computing technique for predicting flow variables in a 90° sharp bend. <i>Journal of Hydroinformatics</i> , 2017, 19, 572-585.	2.4	43
53	A combined adaptive neuro-fuzzy inference system–firefly algorithm model for predicting the roller length of a hydraulic jump on a rough channel bed. <i>Neural Computing and Applications</i> , 2018, 29, 249-258.	5.6	43
54	Comparison of genetic algorithm and imperialist competitive algorithms in predicting bed load transport in clean pipe. <i>Water Science and Technology</i> , 2014, 70, 1695-1701.	2.5	42

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55	A methodological approach of predicting threshold channel bank profile by multi-objective evolutionary optimization of ANFIS. <i>Engineering Geology</i> , 2018, 239, 298-309.	6.3	42
56	Prediction of wave runup on beaches using Gene-Expression Programming and empirical relationships. <i>Coastal Engineering</i> , 2019, 144, 47-61.	4.0	40
57	Modeling unsaturated hydraulic conductivity by hybrid soft computing techniques. <i>Soft Computing</i> , 2019, 23, 12897-12910.	3.6	39
58	Open channel junction velocity prediction by using a hybrid self-neuron adjustable artificial neural network. <i>Flow Measurement and Instrumentation</i> , 2016, 49, 46-51.	2.0	38
59	A support vector regression-firefly algorithm-based model for limiting velocity prediction in sewer pipes. <i>Water Science and Technology</i> , 2016, 73, 2244-2250.	2.5	38
60	Improving the performance of multi-layer perceptron and radial basis function models with a decision tree model to predict flow variables in a sharp 90° bend. <i>Applied Soft Computing Journal</i> , 2016, 48, 563-583.	7.2	37
61	Monthly reservoir inflow forecasting using a new hybrid SARIMA genetic programming approach. <i>Journal of Earth System Science</i> , 2017, 126, 1.	1.3	37
62	A new hybrid decision tree method based on two artificial neural networks for predicting sediment transport in clean pipes. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 1783-1795.	6.4	37
63	Simulation of open channel bend characteristics using computational fluid dynamics and artificial neural networks. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015, 9, 355-369.	3.1	36
64	Experiments and 3D simulations of flow structures in junctions and their influence on location of flowmeters. <i>Water Science and Technology</i> , 2012, 66, 1325-1332.	2.5	34
65	Design of a Hybrid ANFIS-PSO Model to Estimate Sediment Transport in Open Channels. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2019, 43, 851-857.	1.9	34
66	Estimation of the Darcy-Weisbach friction factor for ungauged streams using Gene Expression Programming and Extreme Learning Machines. <i>Journal of Hydrology</i> , 2019, 568, 311-321.	5.4	34
67	Mapping the spatial and temporal variability of flood susceptibility using remotely sensed normalized difference vegetation index and the forecasted changes in the future. <i>Science of the Total Environment</i> , 2021, 770, 145288.	8.0	34
68	Application of a Neuro-Fuzzy GMDH Model for Predicting the Velocity at Limit of Deposition in Storm Sewers. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017, 8, .	1.6	33
69	The optimal dam site selection using a group decision-making method through fuzzy TOPSIS model. <i>Environment Systems and Decisions</i> , 2018, 38, 471-488.	3.4	33
70	Predicting stable alluvial channel profiles using emotional artificial neural networks. <i>Applied Soft Computing Journal</i> , 2019, 78, 420-437.	7.2	33
71	Evaluation of preprocessing techniques for improving the accuracy of stochastic rainfall forecast models. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 505-524.	3.5	33
72	Development of a linear based stochastic model for daily soil temperature prediction: One step forward to sustainable agriculture. <i>Computers and Electronics in Agriculture</i> , 2020, 176, 105636.	7.7	33

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73	An analysis of shear stress distribution in circular channels with sediment deposition based on Gene Expression Programming. International Journal of Sediment Research, 2017, 32, 575-584.	3.5	32
74	Reservoir water level forecasting using group method of data handling. Acta Geophysica, 2018, 66, 717-730.	2.0	32
75	Application of artificial neural network and genetic programming models for estimating the longitudinal velocity field in open channel junctions. Flow Measurement and Instrumentation, 2015, 41, 81-89.	2.0	31
76	Firefly optimization algorithm effect on support vector regression prediction improvement of a modified labyrinth side weir's discharge coefficient. Applied Mathematics and Computation, 2016, 274, 14-19.	2.2	31
77	New Approach to Estimate Velocity at Limit of Deposition in Storm Sewers Using Vector Machine Coupled with Firefly Algorithm. Journal of Pipeline Systems Engineering and Practice, 2017, 8, .	1.6	31
78	Exploring the Role of Advertising Types on Improving the Water Consumption Behavior: An Application of Integrated Fuzzy AHP and Fuzzy VIKOR Method. Sustainability, 2020, 12, 1232.	3.2	31
79	Extension of Fuzzy Delphi AHP Based on Interval-Valued Fuzzy Sets and Its Application in Water Resource Rating Problems. Water Resources Management, 2016, 30, 3123-3141.	3.9	30
80	Prediction of daily water level using new hybridized GS-GMDH and ANFIS-FCM models. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1343-1361.	3.1	30
81	Artificial intelligence models for prediction of the aeration efficiency of the stepped weir. Flow Measurement and Instrumentation, 2019, 65, 78-89.	2.0	29
82	Assessment of Stochastic Models and a Hybrid Artificial Neural Network-Genetic Algorithm Method in Forecasting Monthly Reservoir Inflow. INAE Letters, 2017, 2, 13-23.	1.0	28
83	Design of a fuzzy differential evolution algorithm to predict non-deposition sediment transport. Applied Water Science, 2017, 7, 4287-4299.	5.6	28
84	Remote Sensing Satellite Data Preparation for Simulating and Forecasting River Discharge. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3432-3441.	6.3	28
85	A generalized linear stochastic model for lake level prediction. Science of the Total Environment, 2020, 723, 138015.	8.0	28
86	A Non-Tuned Machine Learning Technique for Abutment Scour Depth in Clear Water Condition. Water (Switzerland), 2020, 12, 301.	2.7	28
87	Influence of position and type of Doppler flow meters on flow-rate measurement in sewers using computational fluid dynamic. Flow Measurement and Instrumentation, 2011, 22, 225-234.	2.0	27
88	Velocity Distribution in Open Channel Flows: Analytical Approach for the Outer Region. Journal of Hydraulic Engineering, 2013, 139, 37-43.	1.5	27
89	Design of modified structure multi-layer perceptron networks based on decision trees for the prediction of flow parameters in 90° open-channel bends. Engineering Applications of Computational Fluid Mechanics, 2016, 10, 193-208.	3.1	27
90	Integrated Markov chains and uncertainty analysis techniques to more accurately forecast floods using satellite signals. Journal of Hydrology, 2019, 572, 75-95.	5.4	27

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91	Closed-Form Solution for Flow Field in Curved Channels in Comparison with Experimental and Numerical Analyses and Artificial Neural Network. Engineering Applications of Computational Fluid Mechanics, 2012, 6, 514-526.	3.1	26
92	Water supply management using an extended group fuzzy decision-making method: a case study in north-eastern Iran. Applied Water Science, 2015, 5, 291-304.	5.6	26
93	An expert system with radial basis function neural network based on decision trees for predicting sediment transport in sewers. Water Science and Technology, 2016, 74, 176-183.	2.5	26
94	Reliable method of determining stable threshold channel shape using experimental and gene expression programming techniques. Neural Computing and Applications, 2019, 31, 5799-5817.	5.6	26
95	Stochastic model stationarization by eliminating the periodic term and its effect on time series prediction. Journal of Hydrology, 2017, 547, 348-364.	5.4	25
96	Integrated nonlinear daily water demand forecast model (case study: City of Guelph, Canada). Journal of Hydrology, 2019, 579, 124182.	5.4	25
97	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. Hydrological Sciences Journal, 2020, 65, 1145-1157.	2.6	25
98	Gene expression programming-based approach for predicting the roller length of a hydraulic jump on a rough bed. ISH Journal of Hydraulic Engineering, 2021, 27, 77-87.	2.1	24
99	Development of optimal water supply plan using integrated fuzzy Delphi and fuzzy <scp>ELECTRE III</scp> methodsâ€”Case study of the Gamasiab basin. Expert Systems, 2020, 37, e12568.	4.5	24
100	Forecasting monthly fluctuations of lake surface areas using remote sensing techniques and novel machine learning methods. Theoretical and Applied Climatology, 2021, 143, 713-735.	2.8	24
101	A warning machine learning algorithm for early knee osteoarthritis structural progressor patient screening. Therapeutic Advances in Musculoskeletal Disease, 2021, 13, 1759720X2199325.	2.7	24
102	Sensitivity analysis of the discharge coefficient of a modified triangular side weir by adaptive neuro-fuzzy methodology. Measurement: Journal of the International Measurement Confederation, 2015, 73, 74-81.	5.0	23
103	Integrated preprocessing techniques with linear stochastic approaches in groundwater level forecasting. Acta Geophysica, 2021, 69, 1395-1411.	2.0	23
104	Determining the Scour Dimensions Around Submerged Vanes in a 180Â° Bend with the Gene Expression Programming Technique. Journal of Marine Science and Application, 2018, 17, 233-240.	1.7	22
105	Application of optimized Artificial and Radial Basis neural networks by using modified Genetic Algorithm on discharge coefficient prediction of modified labyrinth side weir with two and four cycles. Measurement: Journal of the International Measurement Confederation, 2020, 152, 107291.	5.0	22
106	A group Multi-Criteria Decision-Making method for water supply choice optimization. Socio-Economic Planning Sciences, 2021, 77, 101006.	5.0	22
107	Predicting the velocity field in a 90Â° Open channel bend using a gene expression programming model. Flow Measurement and Instrumentation, 2015, 46, 189-192.	2.0	21
108	Prediction of boundary shear stress in circular and trapezoidal channels with entropy concept. Urban Water Journal, 2016, 13, 629-636.	2.1	21

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109	Stable alluvial channel design using evolutionary neural networks. <i>Journal of Hydrology</i> , 2018, 566, 770-782.	5.4	21
110	Applying Upstream Satellite Signals and a 2-D Error Minimization Algorithm to Advance Early Warning and Management of Flood Water Levels and River Discharge. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 902-910.	6.3	21
111	Prognostication of Shortwave Radiation Using an Improved No-Tuned Fast Machine Learning. <i>Sustainability</i> , 2021, 13, 8009.	3.2	21
112	Closure to "An integrated framework of extreme learning machines for predicting scour at pile groups in clear water condition" by: I. Ebtehaj, H. Bonakdari, F. Moradi, B. Gharabaghi, Z. Sheikh Khozani. <i>Coastal Engineering</i> , 2019, 147, 135-137.	4.0	20
113	A Methodology for Forecasting Dissolved Oxygen in Urban Streams. <i>Water (Switzerland)</i> , 2020, 12, 2568.	2.7	20
114	Predicting the geometry of regime rivers using M5 model tree, multivariate adaptive regression splines and least square support vector regression methods. <i>International Journal of River Basin Management</i> , 2019, 17, 333-352.	2.7	19
115	Response surface analysis of effects of hydraulic retention time and influent feed concentration on performance of an UASFF bioreactor. <i>Waste Management</i> , 2010, 30, 1798-1807.	7.4	18
116	Estimating the shear stress distribution in circular channels based on the randomized neural network technique. <i>Applied Soft Computing Journal</i> , 2017, 58, 441-448.	7.2	18
117	Optimum Support Vector Regression for Discharge Coefficient of Modified Side Weirs Prediction. <i>INAE Letters</i> , 2017, 2, 25-33.	1.0	18
118	Formulating the shear stress distribution in circular open channels based on the Renyi entropy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 490, 114-126.	2.6	18
119	Uncertainty analysis of shear stress estimation in circular channels by Tsallis entropy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 510, 558-576.	2.6	18
120	Robustness lake water level prediction using the search heuristic-based artificial intelligence methods. <i>ISH Journal of Hydraulic Engineering</i> , 2019, 25, 316-324.	2.1	18
121	A Comparative Study of Linear Stochastic with Nonlinear Daily River Discharge Forecast Models. <i>Water Resources Management</i> , 2020, 34, 3689-3708.	3.9	18
122	Experimental and numerical investigation of the flow field in the gradual transition of rectangular to trapezoidal open channels. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2016, 10, 272-282.	3.1	17
123	Potential of radial basis function network with particle swarm optimization for prediction of sediment transport at the limit of deposition in a clean pipe. <i>Sustainable Water Resources Management</i> , 2017, 3, 391-401.	2.1	17
124	A pareto design of evolutionary hybrid optimization of ANFIS model in prediction abutment scour depth. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.	1.3	17
125	Assessment of geomorphological bank evolution of the alluvial threshold rivers based on entropy concept parameters. <i>Hydrological Sciences Journal</i> , 2019, 64, 856-872.	2.6	17
126	Discussion of "Comparative assessment of time series and artificial intelligence models to estimate monthly streamflow: A local and external data analysis approach" by Saeid Mehdizadeh, Farshad Fathian, Mir Jafar Sadegh Safari and Jan F. Adamowski. <i>Journal of Hydrology</i> , 2020, 583, 124614.	5.4	17

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127	New radial basis function network method based on decision trees to predict flow variables in a curved channel. <i>Neural Computing and Applications</i> , 2018, 30, 2771-2785.	5.6	16
128	Designing a New Data Intelligence Model for Global Solar Radiation Prediction: Application of Multivariate Modeling Scheme. <i>Energies</i> , 2019, 12, 1365.	3.1	16
129	An expert system for predicting the velocity field in narrow open channel flows using self-adaptive extreme learning machines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107202.	5.0	16
130	Study of the shear stress in narrow channels: application to sewers. <i>Urban Water Journal</i> , 2008, 5, 15-20.	2.1	15
131	Potential of particle swarm optimization based radial basis function network to predict the discharge coefficient of a modified triangular side weir. <i>Flow Measurement and Instrumentation</i> , 2015, 45, 404-407.	2.0	15
132	Radial Basis Neural Network and Particle Swarm Optimization-based equations for predicting the discharge capacity of triangular labyrinth weirs. <i>Flow Measurement and Instrumentation</i> , 2015, 45, 341-347.	2.0	15
133	A method based on the Tsallis entropy for characterizing threshold channel bank profiles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 526, 121089.	2.6	15
134	A novel stochastic wastewater quality modeling based on fuzzy techniques. <i>Journal of Environmental Health Science & Engineering</i> , 2020, 18, 1099-1120.	3.0	15
135	Understanding the dynamic nature of Time-to-Peak in UK streams. <i>Journal of Hydrology</i> , 2020, 583, 124630.	5.4	15
136	Numerical investigation of flow field and flowmeter accuracy in open-channel junctions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015, 9, 280-290.	3.1	14
137	Support vector regression for modified oblique side weirs discharge coefficient prediction. <i>Flow Measurement and Instrumentation</i> , 2016, 51, 1-7.	2.0	14
138	Application of a genetic algorithm in predicting the percentage of shear force carried by walls in smooth rectangular channels. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 87, 87-98.	5.0	14
139	Multi-objective evolutionary polynomial regression-based prediction of energy consumption probing. <i>Water Science and Technology</i> , 2017, 75, 2791-2799.	2.5	14
140	Calculating the energy consumption of electrocoagulation using a generalized structure group method of data handling integrated with a genetic algorithm and singular value decomposition. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 379-393.	4.1	14
141	Evolutionary Prediction of Biohydrogen Production by Dark Fermentation. <i>Clean - Soil, Air, Water</i> , 2019, 47, 1700494.	1.1	14
142	A comparison of artificial intelligence-based classification techniques in predicting flow variables in sharp curved channels. <i>Engineering With Computers</i> , 2020, 36, 295-324.	6.1	14
143	Evolutionary optimization of neural network to predict sediment transport without sedimentation. <i>Complex & Intelligent Systems</i> , 2021, 7, 401-416.	6.5	14
144	Early detection of riverine flooding events using the group method of data handling for the Bow River, Alberta, Canada. <i>International Journal of River Basin Management</i> , 2022, 20, 533-544.	2.7	14

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145	A reliable GIS-based FAHP-FTOPSIS model to prioritize urban water supply management scenarios: A case study in semi-arid climate. <i>Sustainable Cities and Society</i> , 2022, 81, 103846.	10.4	14
146	Effects of process factors on biological activity of granular sludge grown in an UASFF bioreactor. <i>Renewable Energy</i> , 2009, 34, 1245-1251.	8.9	13
147	Efficient methods for prediction of velocity fields in open channel junctions based on the artificial neural network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015, 9, 220-232.	3.1	13
148	Discharge Coefficient of Rectangular Side Weirs on Circular Channels. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2016, 17, 391-399.	1.0	13
149	New type side weir discharge coefficient simulation using three novel hybrid adaptive neuro-fuzzy inference systems. <i>Applied Water Science</i> , 2018, 8, 1.	5.6	13
150	Serum adipokines/related inflammatory factors and ratios as predictors of infrapatellar fat pad volume in osteoarthritis: Applying comprehensive machine learning approaches. <i>Scientific Reports</i> , 2020, 10, 9993.	3.3	13
151	Establishment of relationship between mean and maximum velocities in narrow sewers. <i>Journal of Environmental Management</i> , 2012, 113, 474-480.	7.8	12
152	Design of a new hybrid artificial neural network method based on decision trees for calculating the Froude number in rigid rectangular channels. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 252-260.	2.0	12
153	An expert system for predicting shear stress distribution in circular open channels using gene expression programming. <i>Water Science and Engineering</i> , 2018, 11, 167-176.	3.2	12
154	Sensitivity analysis of parameters affecting scour depth around bridge piers based on the non-tuned, rapid extreme learning machine method. <i>Neural Computing and Applications</i> , 2019, 31, 9145-9156.	5.6	12
155	A reliable time-series method for predicting arthritic disease outcomes: New step from regression toward a nonlinear artificial intelligence method. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 189, 105315.	4.7	12
156	Evaluating Parshall flume aeration with experimental observations and advance soft computing techniques. <i>Neural Computing and Applications</i> , 2021, 33, 17257-17271.	5.6	12
157	Modeling of velocity fields by the entropy concept in narrow open channels. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 779-789.	1.9	11
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