

Hossein Bonakdari

List of Publications by Year in descending order

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254
papers

6,339
citations

57752

44
h-index

128286

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. <i>International Journal of Sediment Research</i> , 2017, 32, 575-584.	3.5	32
74	Reservoir water level forecasting using group method of data handling. <i>Acta Geophysica</i> , 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. <i>Flow Measurement and Instrumentation</i> , 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. <i>Applied Mathematics and Computation</i> , 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. <i>Journal of Pipeline Systems Engineering and Practice</i> , 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. <i>Sustainability</i> , 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. <i>Water Resources Management</i> , 2016, 30, 3123-3141.	3.9	30
80	Prediction of daily water level using new hybridized GS-GMDH and ANFIS-FCM models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1343-1361.	3.1	30
81	Artificial intelligence models for prediction of the aeration efficiency of the stepped weir. <i>Flow Measurement and Instrumentation</i> , 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. <i>INAE Letters</i> , 2017, 2, 13-23.	1.0	28
83	Design of a fuzzy differential evolution algorithm to predict non-deposition sediment transport. <i>Applied Water Science</i> , 2017, 7, 4287-4299.	5.6	28
84	Remote Sensing Satellite Data Preparation for Simulating and Forecasting River Discharge. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 3432-3441.	6.3	28
85	A generalized linear stochastic model for lake level prediction. <i>Science of the Total Environment</i> , 2020, 723, 138015.	8.0	28
86	A Non-Tuned Machine Learning Technique for Abutment Scour Depth in Clear Water Condition. <i>Water (Switzerland)</i> , 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. <i>Flow Measurement and Instrumentation</i> , 2011, 22, 225-234.	2.0	27
88	Velocity Distribution in Open Channel Flows: Analytical Approach for the Outer Region. <i>Journal of Hydraulic Engineering</i> , 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. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2016, 10, 193-208.	3.1	27
90	Integrated Markov chains and uncertainty analysis techniques to more accurately forecast floods using satellite signals. <i>Journal of Hydrology</i> , 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. <i>Engineering Applications of Computational Fluid Mechanics</i> , 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. <i>Applied Water Science</i> , 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. <i>Water Science and Technology</i> , 2016, 74, 176-183.	2.5	26
94	Reliable method of determining stable threshold channel shape using experimental and gene expression programming techniques. <i>Neural Computing and Applications</i> , 2019, 31, 5799-5817.	5.6	26
95	Stochastic model stationarization by eliminating the periodic term and its effect on time series prediction. <i>Journal of Hydrology</i> , 2017, 547, 348-364.	5.4	25
96	Integrated nonlinear daily water demand forecast model (case study: City of Guelph, Canada). <i>Journal of Hydrology</i> , 2019, 579, 124182.	5.4	25
97	Integrative stochastic model standardization with genetic algorithm for rainfall pattern forecasting in tropical and semi-arid environments. <i>Hydrological Sciences Journal</i> , 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. <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 77-87.	2.1	24
99	Development of optimal water supply plan using integrated fuzzy Delphi and fuzzy ELECTRE III methods—Case study of the Gamasiab basin. <i>Expert Systems</i> , 2020, 37, e12568.	4.5	24
100	Forecasting monthly fluctuations of lake surface areas using remote sensing techniques and novel machine learning methods. <i>Theoretical and Applied Climatology</i> , 2021, 143, 713-735.	2.8	24
101	A warning machine learning algorithm for early knee osteoarthritis structural progressor patient screening. <i>Therapeutic Advances in Musculoskeletal Disease</i> , 2021, 13, 1759720X2199325.	2.7	24
102	Sensitivity analysis of the discharge coefficient of a modified triangular side weir by adaptive neuro-fuzzy methodology. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 73, 74-81.	5.0	23
103	Integrated preprocessing techniques with linear stochastic approaches in groundwater level forecasting. <i>Acta Geophysica</i> , 2021, 69, 1395-1411.	2.0	23
104	Determining the Scour Dimensions Around Submerged Vanes in a 180° Bend with the Gene Expression Programming Technique. <i>Journal of Marine Science and Application</i> , 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. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 152, 107291.	5.0	22
106	A group Multi-Criteria Decision-Making method for water supply choice optimization. <i>Socio-Economic Planning Sciences</i> , 2021, 77, 101006.	5.0	22
107	Predicting the velocity field in a 90° Open channel bend using a gene expression programming model. <i>Flow Measurement and Instrumentation</i> , 2015, 46, 189-192.	2.0	21
108	Prediction of boundary shear stress in circular and trapezoidal channels with entropy concept. <i>Urban Water Journal</i> , 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
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