

Hossein Bonakdari

List of Publications by Citations

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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.

249 papers	4,391 citations	37 h-index	49 g-index
267 ext. papers	5,345 ext. citations	3.3 avg, IF	6.53 L-index

#	Paper	IF	Citations
249	Novel approach for streamflow forecasting using a hybrid ANFIS-FFA model. <i>Journal of Hydrology</i> , 2017 , 554, 263-276	6	134
248	Gene expression programming to predict the discharge coefficient in rectangular side weirs. <i>Applied Soft Computing Journal</i> , 2015 , 35, 618-628	7.5	96
247	Application of firefly algorithm-based support vector machines for prediction of field capacity and permanent wilting point. <i>Soil and Tillage Research</i> , 2017 , 172, 32-38	6.5	84
246	Rainfall Pattern Forecasting Using Novel Hybrid Intelligent Model Based ANFIS-FFA. <i>Water Resources Management</i> , 2018 , 32, 105-122	3.7	82
245	Performance Evaluation of Adaptive Neural Fuzzy Inference System for Sediment Transport in Sewers. <i>Water Resources Management</i> , 2014 , 28, 4765-4779	3.7	75
244	GMDH-type neural network approach for modeling the discharge coefficient of rectangular sharp-crested side weirs 2015 , 18, 746-757		61
243	An integrated framework of Extreme Learning Machines for predicting scour at pile groups in clear water condition. <i>Coastal Engineering</i> , 2018 , 135, 1-15	4.8	61
242	Comparative analysis of GMDH neural network based on genetic algorithm and particle swarm optimization in stable channel design. <i>Applied Mathematics and Computation</i> , 2017 , 313, 271-286	2.7	61
241	Evaluation of Sediment Transport in Sewer using Artificial Neural Network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2013 , 7, 382-392	4.5	61
240	Pareto genetic design of group method of data handling type neural network for prediction discharge coefficient in rectangular side orifices. <i>Flow Measurement and Instrumentation</i> , 2015 , 41, 67-74	2.2	58
239	Novel Hybrid Data-Intelligence Model for Forecasting Monthly Rainfall with Uncertainty Analysis. <i>Water (Switzerland)</i> , 2019 , 11, 502	3	56
238	. <i>IEEE Access</i> , 2019 , 7, 74471-74481	3.5	55
237	A reliable linear stochastic daily soil temperature forecast model. <i>Soil and Tillage Research</i> , 2019 , 189, 73-87	6.5	54
236	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. <i>Engineering Optimization</i> , 2016 , 48, 933-948	2	52
235	Novel hybrid linear stochastic with non-linear extreme learning machine methods for forecasting monthly rainfall a tropical climate. <i>Journal of Environmental Management</i> , 2018 , 222, 190-206	7.9	50
234	Integrated SARIMA with Neuro-Fuzzy Systems and Neural Networks for Monthly Inflow Prediction. <i>Water Resources Management</i> , 2017 , 31, 2141-2156	3.7	49
233	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	4.6	49

232	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	6.5	48
231	Turbulent velocity profile in fully-developed open channel flows. <i>Environmental Fluid Mechanics</i> , 2008 , 8, 1-17	2.2	48
230	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	3.5	47
229	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	4.5	46
228	New insights into soil temperature time series modeling: linear or nonlinear?. <i>Theoretical and Applied Climatology</i> , 2019 , 135, 1157-1177	3	46
227	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	1.1	45
226	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	4.6	45
225	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	3.7	44
224	Evolutionary design of generalized group method of data handling-type neural network for estimating the hydraulic jump roller length. <i>Acta Mechanica</i> , 2018 , 229, 1197-1214	2.1	44
223	Extreme learning machine assessment for estimating sediment transport in open channels. <i>Engineering With Computers</i> , 2016 , 32, 691-704	4.5	43
222	Abutment scour depth modeling using neuro-fuzzy-embedded techniques. <i>Marine Georesources and Geotechnology</i> , 2019 , 37, 190-200	2.2	43
221	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	41
220	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	3.5	40
219	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	2.2	40
218	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	2.2	39
217	Design criteria for sediment transport in sewers based on self-cleansing concept. <i>Journal of Zhejiang University: Science A</i> , 2014 , 15, 914-924	2.1	39
216	Prediction of scour depth around bridge piers using self-adaptive extreme learning machine. <i>Journal of Hydroinformatics</i> , 2017 , 19, 207-224	2.6	38
215	Predicting wastewater treatment plant quality parameters using a novel hybrid linear-nonlinear methodology. <i>Journal of Environmental Management</i> , 2019 , 240, 463-474	7.9	38

214	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	4.5	38
213	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	2.2	37
212	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, 04017015	1.1	37
211	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	3.7	37
210	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	36
209	Assessment of evolutionary algorithms in predicting non-deposition sediment transport. <i>Urban Water Journal</i> , 2016 , 13, 499-510	2.3	36
208	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	4.8	35
207	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	35
206	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	4.5	35
205	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	2.6	34
204	Comparison of genetic algorithm and imperialist competitive algorithms in predicting bed load transport in clean pipe. <i>Water Science and Technology</i> , 2014 , 70, 1695-701	2.2	34
203	A reliable linear method for modeling lake level fluctuations. <i>Journal of Hydrology</i> , 2019 , 570, 236-250	6	33
202	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	32
201	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	4.5	32
200	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	7.5	32
199	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	4.8	31
198	Prediction of wave runup on beaches using Gene-Expression Programming and empirical relationships. <i>Coastal Engineering</i> , 2019 , 144, 47-61	4.8	30
197	Experiments and 3D simulations of flow structures in junctions and their influence on location of flowmeters. <i>Water Science and Technology</i> , 2012 , 66, 1325-32	2.2	29

196	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	2.2	28
195	Impact of Normalization and Input on ARMAX-ANN Model Performance in Suspended Sediment Load Prediction. <i>Water Resources Management</i> , 2018 , 32, 845-863	3.7	28
194	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	6	27
193	A support vector regression-firefly algorithm-based model for limiting velocity prediction in sewer pipes. <i>Water Science and Technology</i> , 2016 , 73, 2244-50	2.2	27
192	Monthly reservoir inflow forecasting using a new hybrid SARIMA genetic programming approach. <i>Journal of Earth System Science</i> , 2017 , 126, 1	1.8	26
191	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	3.7	26
190	Predicting stable alluvial channel profiles using emotional artificial neural networks. <i>Applied Soft Computing Journal</i> , 2019 , 78, 420-437	7.5	26
189	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, 06016003	1.5	25
188	Genetic-Algorithm-Optimized Sequential Model for Water Temperature Prediction. <i>Sustainability</i> , 2020 , 12, 5374	3.6	25
187	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	24
186	Modeling unsaturated hydraulic conductivity by hybrid soft computing techniques. <i>Soft Computing</i> , 2019 , 23, 12897-12910	3.5	24
185	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	6.1	23
184	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	6	23
183	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	4.5	23
182	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	0.7	22
181	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	4.5	22
180	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	2.2	22
179	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	6	22

178	Reservoir water level forecasting using group method of data handling. <i>Acta Geophysica</i> , 2018 , 66, 717-730	2.2	22
177	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	2.7	21
176	Stochastic model stationarization by eliminating the periodic term and its effect on time series prediction. <i>Journal of Hydrology</i> , 2017 , 547, 348-364	6	20
175	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	20
174	Prediction of boundary shear stress in circular and trapezoidal channels with entropy concept. <i>Urban Water Journal</i> , 2016 , 13, 629-636	2.3	20
173	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	3.7	20
172	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	1.1	20
171	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	4.8	20
170	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	4.1	19
169	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	3.3	19
168	Stable alluvial channel design using evolutionary neural networks. <i>Journal of Hydrology</i> , 2018 , 566, 770-782	7.82	19
167	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	4.6	18
166	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	2.2	18
165	Remote Sensing Satellite Data Preparation for Simulating and Forecasting River Discharge. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 3432-3441	8.1	18
164	Velocity Distribution in Open Channel Flows: Analytical Approach for the Outer Region. <i>Journal of Hydraulic Engineering</i> , 2013 , 139, 37-43	1.8	18
163	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, 04016018	1.5	18
162	Artificial intelligence models for prediction of the aeration efficiency of the stepped weir. <i>Flow Measurement and Instrumentation</i> , 2019 , 65, 78-89	2.2	18
161	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	4.8	17

160	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	3.6	17
159	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	3.3	17
158	Integrated nonlinear daily water demand forecast model (case study: City of Guelph, Canada). <i>Journal of Hydrology</i> , 2019 , 579, 124182	6	17
157	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	2.2	17
156	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	3.3	17
155	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	7.5	16
154	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	3.5	16
153	Design of a fuzzy differential evolution algorithm to predict non-deposition sediment transport. <i>Applied Water Science</i> , 2017 , 7, 4287-4299	5	16
152	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, 1798-807	8.6	16
151	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, 176-83	2.2	16
150	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> , 2019 , 1-11	1.5	16
149	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	16
148	Integrated Markov chains and uncertainty analysis techniques to more accurately forecast floods using satellite signals. <i>Journal of Hydrology</i> , 2019 , 572, 75-95	6	15
147	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	4.6	15
146	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	8.1	15
145	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	1.7	15
144	Optimum Support Vector Regression for Discharge Coefficient of Modified Side Weirs Prediction. <i>INAE Letters</i> , 2017 , 2, 25-33	0.7	14
143	Assessment of geomorphological bank evolution of the alluvial threshold rivers based on entropy concept parameters. <i>Hydrological Sciences Journal</i> , 2019 , 64, 856-872	3.5	14

142	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	4.6	14
141	Robustness lake water level prediction using the search heuristic-based artificial intelligence methods. <i>ISH Journal of Hydraulic Engineering</i> , 2019 , 25, 316-324	1.5	14
140	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	1.2	14
139	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	3.3	13
138	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	2.2	13
137	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	2.2	13
136	A generalized linear stochastic model for lake level prediction. <i>Science of the Total Environment</i> , 2020 , 723, 138015	10.2	13
135	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	4.8	13
134	Numerical investigation of flow field and flowmeter accuracy in open-channel junctions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015 , 9, 280-290	4.5	13
133	Study of the shear stress in narrow channels: application to sewers. <i>Urban Water Journal</i> , 2008 , 5, 15-20	2.3	13
132	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	1.9	12
131	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	4.5	12
130	Support vector regression for modified oblique side weirs discharge coefficient prediction. <i>Flow Measurement and Instrumentation</i> , 2016 , 51, 1-7	2.2	12
129	Establishment of relationship between mean and maximum velocities in narrow sewers. <i>Journal of Environmental Management</i> , 2012 , 113, 474-80	7.9	12
128	Verification of equation for non-deposition sediment transport in flood water canals 2014 , 1527-1533		12
127	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	11
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	6	11
125	Effects of process factors on biological activity of granular sludge grown in an UASFF bioreactor. <i>Renewable Energy</i> , 2009 , 34, 1245-1251	8.1	11

124	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	6.5	11
123	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	2.1	11
122	A Methodology for Forecasting Dissolved Oxygen in Urban Streams. <i>Water (Switzerland)</i> , 2020 , 12, 25683		10
121	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	10
120	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	4.5	10
119	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	4	10
118	Development of group method of data handling based on genetic algorithm to predict incipient motion in rigid rectangular storm water channel. <i>Scientia Iranica</i> , 2017 , 24, 1000-1009	1.5	10
117	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	4.5	10
116	A Comparative Study of Linear Stochastic with Nonlinear Daily River Discharge Forecast Models. <i>Water Resources Management</i> , 2020 , 34, 3689-3708	3.7	10
115	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	10.2	10
114	Discharge Coefficient of Rectangular Side Weirs on Circular Channels. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2016 , 17, 391-399	1.8	10
113	Multi-objective evolutionary polynomial regression-based prediction of energy consumption probing. <i>Water Science and Technology</i> , 2017 , 75, 2791-2799	2.2	9
112	Developing an AI-based method for river discharge forecasting using satellite signals. <i>Theoretical and Applied Climatology</i> , 2019 , 138, 347-362	3	9
111	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	4.9	9
110	A Non-Tuned Machine Learning Technique for Abutment Scour Depth in Clear Water Condition. <i>Water (Switzerland)</i> , 2020 , 12, 301	3	9
109	Comparison of genetic programming and radial basis function neural network for open-channel junction velocity field prediction. <i>Neural Computing and Applications</i> , 2018 , 30, 855-864	4.8	9
108	Comparative Assessment of the Hybrid Genetic Algorithm-Artificial Neural Network and Genetic Programming Methods for the Prediction of Longitudinal Velocity Field around a Single Straight Groyne. <i>Applied Soft Computing Journal</i> , 2017 , 60, 213-228	7.5	9
107	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	9

106	Application of a soft computing technique in predicting the percentage of shear force carried by walls in a rectangular channel with non-homogeneous roughness. <i>Water Science and Technology</i> , 2016 , 73, 124-9	2.2	9
105	Efficient shear stress distribution detection in circular channels using Extreme Learning Machines and the M5 model tree algorithm. <i>Urban Water Journal</i> , 2017 , 14, 999-1006	2.3	8
104	Designing a New Data Intelligence Model for Global Solar Radiation Prediction: Application of Multivariate Modeling Scheme. <i>Energies</i> , 2019 , 12, 1365	3.1	8
103	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	6.9	8
102	Estimating shear stress in a rectangular channel with rough boundaries using an optimized SVM method. <i>Neural Computing and Applications</i> , 2018 , 30, 2555-2567	4.8	8
101	Evolutionary design of a generalized polynomial neural network for modelling sediment transport in clean pipes. <i>Engineering Optimization</i> , 2016 , 48, 1793-1807	2	8
100	Understanding the dynamic nature of Time-to-Peak in UK streams. <i>Journal of Hydrology</i> , 2020 , 583, 124660	3	8
99	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	4.6	8
98	Development of robust evolutionary polynomial regression network in the estimation of stable alluvial channel dimensions. <i>Geomorphology</i> , 2020 , 350, 106895	4.3	8
97	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	3	8
96	Hydraulic Modeling and Evaluation Equations for the Incipient Motion of Sandbags for Levee Breach Closure Operations. <i>Water (Switzerland)</i> , 2019 , 11, 279	3	7
95	Improved side weir discharge coefficient modeling by adaptive neuro-fuzzy methodology. <i>KSCE Journal of Civil Engineering</i> , 2016 , 20, 2999-3005	1.9	7
94	Evaluation of artificial neural network model and statistical analysis relationships to predict the stable channel width 2016 ,		7
93	A novel stochastic wastewater quality modeling based on fuzzy techniques. <i>Journal of Environmental Health Science & Engineering</i> , 2020 , 18, 1099-1120	2.9	7
92	Evolutionary Prediction of Biohydrogen Production by Dark Fermentation. <i>Clean - Soil, Air, Water</i> , 2019 , 47, 1700494	1.6	7
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