Ahmed El-Shafie

List of Publications by Year in Descending Order

299 papers	**6,796** citations	**41** h-index	**67** g-index
322 ext. papers	**8,814** ext. citations	**4** avg, IF	**6.7** L-index

#	Paper	IF	Citations
299	Predicting suspended sediment load in Peninsular Malaysia using support vector machine and deep learning algorithms.. *Scientific Reports*, **2022**, 12, 302	4.9	0
298	Modeling the infiltration rate of wastewater infiltration basins considering water quality parameters using different artificial neural network techniques. *Engineering Applications of Computational Fluid Mechanics*, **2022**, 16, 397-421	4.5	2
297	Water level prediction using various machine learning algorithms: a case study of Durian Tunggal river, Malaysia. *Engineering Applications of Computational Fluid Mechanics*, **2022**, 16, 422-440	4.5	1
296	Predicting crop yields using a new robust Bayesian averaging model based on multiple hybrid ANFIS and MLP models. *Ain Shams Engineering Journal*, **2022**, 13, 101724	4.4	6
295	Spatiotemporal variability analysis of standardized precipitation indexed droughts using wavelet transform. *Journal of Hydrology*, **2022**, 605, 127299	6	1
294	A review of the hybrid artificial intelligence and optimization modelling of hydrological streamflow forecasting. *AEJ - Alexandria Engineering Journal*, **2022**, 61, 279-303	6.1	16
293	A Review of Reservoir Operation Optimisations: from Traditional Models to Metaheuristic Algorithms.. *Archives of Computational Methods in Engineering*, **2022**, 1-23	7.8	2
292	Machine learning algorithm as a sustainable tool for dissolved oxygen prediction: a case study of Feitsui Reservoir, Taiwan.. *Scientific Reports*, **2022**, 12, 3649	4.9	0
291	Predicting streamflow in Peninsular Malaysia using support vector machine and deep learning algorithms.. *Scientific Reports*, **2022**, 12, 3883	4.9	2
290	Review on generating optimal operation for dam and reservoir water system: simulation models and optimization algorithms. *Applied Water Science*, **2022**, 12, 1	5	0
289	Combining autoregressive integrated moving average with Long Short-Term Memory neural network and optimisation algorithms for predicting ground water level. *Journal of Cleaner Production*, **2022**, 348, 131224	10.3	4
288	A comparison of machine learning models for suspended sediment load classification. *Engineering Applications of Computational Fluid Mechanics*, **2022**, 16, 1211-1232	4.5	
287	Streamflow prediction with large climate indices using several hybrid multilayer perceptrons and copula Bayesian model averaging. *Ecological Indicators*, **2021**, 133, 108285	5.8	12
286	Enhancement of nitrogen prediction accuracy through a new hybrid model using ant colony optimization and an Elman neural network. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 1843-1867	4.5	0
285	Application of Artificial Intelligence Models for modeling Water Quality in Groundwater: Comprehensive Review, Evaluation and Future Trends. *Water, Air, and Soil Pollution*, **2021**, 232, 1	2.6	3
284	Optimization of reservoir operation at Klang Gate Dam utilizing a whale optimization algorithm and a Lﬤy flight and distribution enhancement technique. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 1682-1702	4.5	0
283	Prediction of daily suspended sediment load (SSL) using new optimization algorithms and soft computing models. *Soft Computing*, **2021**, 25, 7609-7626	3.5	11

282	Suspended sediment load prediction using long short-term memory neural network. *Scientific Reports*, **2021**, 11, 7826	4.9	14
281	Investigating the application of artificial intelligence for earthquake prediction in Terengganu. *Natural Hazards*, **2021**, 108, 977-999	3	1
280	Optimizing the Operation Release Policy Using Charged System Search Algorithm: A Case Study of Klang Gates Dam, Malaysia. *Sustainability*, **2021**, 13, 5900	3.6	3
279	Total iron removal from aqueous solution by using modified clinoptilolite. *Ain Shams Engineering Journal*, **2021**, 13, 101495-101495	4.4	
278	Extreme gradient boosting (Xgboost) model to predict the groundwater levels in Selangor Malaysia. *Ain Shams Engineering Journal*, **2021**, 12, 1545-1556	4.4	37
277	Evaluation of deep learning algorithm for inflow forecasting: a case study of Durian Tunggal Reservoir, Peninsular Malaysia. *Natural Hazards*, **2021**, 109, 351-369	3	7
276	RBFNN versus GRNN modeling approach for sub-surface evaporation rate prediction in arid region. *Sustainable Computing: Informatics and Systems*, **2021**, 30, 100514	3	4
275	Investigating the reliability of machine learning algorithms as a sustainable tool for total suspended solid prediction. *Ain Shams Engineering Journal*, **2021**, 12, 1607-1622	4.4	8
274	Groundwater level as an input to monthly predicting of water level using various machine learning algorithms. *Earth Science Informatics*, **2021**, 14, 1269-1283	2.5	2
273	Optimization of hydropower reservoir operation based on hedging policy using Jaya algorithm. *Applied Soft Computing Journal*, **2021**, 106, 107325	7.5	9
272	Insights into the Multifaceted Applications of Architectural Concrete: A State-of-the-Art Review. *Arabian Journal for Science and Engineering*, **2021**, 46, 4213-4223	2.5	1
271	Performance improvement for infiltration rate prediction using hybridized Adaptive Neuro-Fuzzy Inferences System (ANFIS) with optimization algorithms. *Ain Shams Engineering Journal*, **2021**, 12, 1665-1676	4.4	16
270	Enhancing the performance of data-driven models for monthly reservoir evaporation prediction. *Environmental Science and Pollution Research*, **2021**, 28, 8281-8295	5.1	6
269	Rainfall forecasting model using machine learning methods: Case study Terengganu, Malaysia. *Ain Shams Engineering Journal*, **2021**, 12, 1651-1663	4.4	34
268	Potential of Epoxidised Natural Rubber Alumina Nanoparticles (ENRAN) sheet as local bridge pier scour countermeasure. *Ain Shams Engineering Journal*, **2021**, 12, 1255-1265	4.4	1
267	Review on wastewater treatment ponds clogging under artificial recharge: Impacting factors and future modelling. *Journal of Water Process Engineering*, **2021**, 40, 101848	6.7	4
266	Developing reservoir evaporation predictive model for successful dam management. *Stochastic Environmental Research and Risk Assessment*, **2021**, 35, 499-514	3.5	4
265	Reservoir water balance simulation model utilizing machine learning algorithm. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 1365-1378	6.1	7

264	Design of a hybrid ANN multi-objective whale algorithm for suspended sediment load prediction. *Environmental Science and Pollution Research*, **2021**, 28, 1596-1611	5.1	26
263	Review on Dam and Reservoir Optimal Operation for Irrigation and Hydropower Energy Generation Utilizing Meta-Heuristic Algorithms. *IEEE Access*, **2021**, 9, 19488-19505	3.5	6
262	Surface water quality status and prediction during movement control operation order under COVID-19 pandemic: Case studies in Malaysia. *International Journal of Environmental Science and Technology*, **2021**, 18, 1-10	3.3	12
261	Ozone Concentration Forecasting Based on Artificial Intelligence Techniques: A Systematic Review. *Water, Air, and Soil Pollution*, **2021**, 232, 1	2.6	9
260	A comprehensive comparison of recent developed meta-heuristic algorithms for streamflow time series forecasting problem. *Applied Soft Computing Journal*, **2021**, 105, 107282	7.5	16
259	Development of prediction model for phosphate in reservoir water system based machine learning algorithms. *Ain Shams Engineering Journal*, **2021**,	4.4	5
258	Development of Crack Width Prediction Models for RC Beam-Column Joint Subjected to Lateral Cyclic Loading Using Machine Learning. *Applied Sciences (Switzerland)*, **2021**, 11, 7700	2.6	1
257	Exploring the reliability of different artificial intelligence techniques in predicting earthquake for Malaysia. *Soil Dynamics and Earthquake Engineering*, **2021**, 147, 106826	3.5	2
256	Predicting municipal solid waste using a coupled artificial neural network with archimedes optimisation algorithm and socioeconomic components. *Journal of Cleaner Production*, **2021**, 315, 128039	10.3	10
255	Predicting evaporation with optimized artificial neural network using multi-objective salp swarm algorithm. *Environmental Science and Pollution Research*, **2021**, 1	5.1	7
254	Developing machine learning algorithms for meteorological temperature and humidity forecasting at Terengganu state in Malaysia. *Scientific Reports*, **2021**, 11, 18935	4.9	10
253	Predicting freshwater production and energy consumption in a seawater greenhouse based on ensemble frameworks using optimized multi-layer perceptron. *Energy Reports*, **2021**, 7, 6308-6326	4.6	12
252	Optimal operation of multi-reservoir systems for increasing power generation using a seagull optimization algorithm and heading policy. *Energy Reports*, **2021**, 7, 3703-3725	4.6	5
251	Modeling the fluctuations of groundwater level by employing ensemble deep learning techniques. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 1420-1439	4.5	9
250	Hybrid deep learning model for ozone concentration prediction: comprehensive evaluation and comparison with various machine and deep learning algorithms. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 902-933	4.5	9
249	Predicting freshwater production in seawater greenhouses using hybrid artificial neural network models. *Journal of Cleaner Production*, **2021**, 329, 129721	10.3	6
248	Fault Detection of Bearing using Support Vector Machine-SVM **2020**,		2
247	Adaptive Fast Orthogonal Search (FOS) algorithm for forecasting streamflow. *Journal of Hydrology*, **2020**, 586, 124896	6	13

246	Performance Enhancement Model for Rainfall Forecasting Utilizing Integrated Wavelet-Convolutional Neural Network. *Water Resources Management*, **2020**, 34, 2371-2387	3.7	17
245	Machine learning versus linear regression modelling approach for accurate ozone concentrations prediction. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 713-725	4.5	20
244	Reference Evapotranspiration Modeling Using New Heuristic Methods. *Entropy*, **2020**, 22,	2.8	19
243	Review of Nitrogen Compounds Prediction in Water Bodies Using Artificial Neural Networks and Other Models. *Sustainability*, **2020**, 12, 4359	3.6	9
242	Hybrid model to improve the river streamflow forecasting utilizing multi-layer perceptron-based intelligent water drop optimization algorithm. *Soft Computing*, **2020**, 24, 18039-18056	3.5	24
241	Rainfall-runoff modelling using improved machine learning methods: Harris hawks optimizer vs. particle swarm optimization. *Journal of Hydrology*, **2020**, 589, 125133	6	43
240	Complex Extreme Sea Levels Prediction Analysis: Karachi Coast Case Study. *Entropy*, **2020**, 22,	2.8	5
239	Input attributes optimization using the feasibility of genetic nature inspired algorithm: Application of river flow forecasting. *Scientific Reports*, **2020**, 10, 4684	4.9	38
238	Optimized fuzzy inference system to enhance prediction accuracy for influent characteristics of a sewage treatment plant. *Science of the Total Environment*, **2020**, 722, 137878	10.2	17
237	Enhancing the Prediction Accuracy of Data-Driven Models for Monthly Streamflow in Urmia Lake Basin Based upon the Autoregressive Conditionally Heteroskedastic Time-Series Model. *Applied Sciences (Switzerland)*, **2020**, 10, 571	2.6	18
236	Investigating the Influence of Meteorological Parameters on the Accuracy of Sea-Level Prediction Models in Sabah, Malaysia. *Sustainability*, **2020**, 12, 1193	3.6	10
235	Physicochemical parameters data assimilation for efficient improvement of water quality index prediction: Comparative assessment of a noise suppression hybridization approach. *Journal of Cleaner Production*, **2020**, 271, 122576	10.3	19
234	Application of non-parametric approaches to identify trend in streamflow during 1976-2007 (Naula watershed). *AEJ - Alexandria Engineering Journal*, **2020**, 59, 1595-1606	6.1	11
233	Efficient river water quality index prediction considering minimal number of inputs variables. *Engineering Applications of Computational Fluid Mechanics*, **2020**, 14, 751-763	4.5	13
232	Suspended sediment load prediction using artificial neural network and ant lion optimization algorithm. *Environmental Science and Pollution Research*, **2020**, 27, 38094-38116	5.1	31
231	Enhancement of Groundwater-Level Prediction Using an Integrated Machine Learning Model Optimized by Whale Algorithm. *Natural Resources Research*, **2020**, 29, 3233-3252	4.9	30
230	Crow Algorithm for Irrigation Management: A Case Study. *Water Resources Management*, **2020**, 34, 1021-1045	3.7	10
229	Accuracy enhancement for monthly evaporation predicting model utilizing evolutionary machine learning methods. *International Journal of Environmental Science and Technology*, **2020**, 17, 3373-3396	3.3	16

228	Artificial Neural Network (ANN) model development for predicting just suspension speed in solid-liquid mixing system. *Flow Measurement and Instrumentation*, **2020**, 71, 101689	2.2	14
227	Estimation of total dissolved solids (TDS) using new hybrid machine learning models. *Journal of Hydrology*, **2020**, 587, 124989	6	28
226	Feedforward Artificial Neural Network-Based Model for Predicting the Removal of Phenolic Compounds from Water by Using Deep Eutectic Solvent-Functionalized CNTs. *Molecules*, **2020**, 25,	4.8	3
225	Optimised neural network model for river-nitrogen prediction utilizing a new training approach. *PLoS ONE*, **2020**, 15, e0239509	3.7	11
224	Application of Artificial Neural Network for Forecasting Nitrate Concentration as a Water Quality Parameter: A Case Study of Feitsui Reservoir, Taiwan. *International Journal of Design and Nature and Ecodynamics*, **2020**, 15, 647-652	2.3	10
223	Integrated finite element and artificial neural network methods for constructing asphalt concrete dynamic modulus master curve using deflection time-history data. *Construction and Building Materials*, **2020**, 257, 119549	6.7	5
222	ANFIS-based model for predicting actual shear rate associated with wall slip phenomenon. *Soft Computing*, **2020**, 24, 9639-9649	3.5	9
221	Improving artificial intelligence models accuracy for monthly streamflow forecasting using grey Wolf optimization (GWO) algorithm. *Journal of Hydrology*, **2020**, 582, 124435	6	84
220	Evaluation of bias-adjusted satellite precipitation estimations for extreme flood events in Langat river basin, Malaysia **2020**, 51, 105-126		10
219	The Practical Influence of Climate Change on the Performance of Road Stormwater Drainage Infrastructure. *Journal of Engineering (United States)*, **2020**, 2020, 1-13	1.5	
218	Delay Factors Management and Ranking for Reconstruction and Rehabilitation Projects Based on the Relative Importance Index (RII). *Sustainability*, **2020**, 12, 6171	3.6	6
217	Wavelet based hybrid ANN-ARIMA models for meteorological drought forecasting. *Journal of Hydrology*, **2020**, 590, 125380	6	47
216	Machine Learning Application in Reservoir Water Level Forecasting for Sustainable Hydropower Generation Strategy. *Sustainability*, **2020**, 12, 6121	3.6	28
215	Zoning map for drought prediction using integrated machine learning models with a nomadic people optimization algorithm. *Natural Hazards*, **2020**, 104, 537-579	3	29
214	Adaptive neuro-fuzzy inference system coupled with shuffled frog leaping algorithm for predicting river streamflow time series. *Hydrological Sciences Journal*, **2020**, 65, 1738-1751	3.5	45
213	Advanced machine learning model for better prediction accuracy of soil temperature at different depths. *PLoS ONE*, **2020**, 15, e0231055	3.7	25
212	Precision of raw and bias-adjusted satellite precipitation estimations (TRMM, IMERG, CMORPH, and PERSIANN) over extreme flood events: case study in Langat river basin, Malaysia. *Journal of Water and Climate Change*, **2020**, 11, 322-342	2.3	8
211	Pipeline Scour Rates Prediction-Based Model Utilizing a Multilayer Perceptron-Colliding Body Algorithm. *Water (Switzerland)*, **2020**, 12, 902	3	14

210	Modeling the Nonlinearity of Sea Level Oscillations in the Malaysian Coastal Areas Using Machine Learning Algorithms. *Sustainability*, **2019**, 11, 4643	3.6	13
209	Enhancing streamflow forecasting using the augmenting ensemble procedure coupled machine learning models: case study of Aswan High Dam. *Hydrological Sciences Journal*, **2019**, 64, 1629-1646	3.5	20
208	Artificial Neural Network Approach for Modelling of Mercury Ions Removal from Water Using Functionalized CNTs with Deep Eutectic Solvent. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	8
207	Toward Bridging Future Irrigation Deficits Utilizing the Shark Algorithm Integrated with a Climate Change Model. *Applied Sciences (Switzerland)*, **2019**, 9, 3960	2.6	8
206	A clean approach for functionalized carbon nanotubes by deep eutectic solvents and their performance in the adsorption of methyl orange from aqueous solution. *Journal of Environmental Management*, **2019**, 235, 521-534	7.9	32
205	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. *PLoS ONE*, **2019**, 14, e0217499	3.7	31
204	Development of a Novel Hybrid Optimization Algorithm for Minimizing Irrigation Deficiencies. *Sustainability*, **2019**, 11, 2337	3.6	16
203	Multi-Reservoir System Optimization Based on Hybrid Gravitational Algorithm to Minimize Water-Supply Deficiencies. *Water Resources Management*, **2019**, 33, 2741-2760	3.7	11
202	Integrated support vector regression and an improved particle swarm optimization-based model for solar radiation prediction. *PLoS ONE*, **2019**, 14, e0217634	3.7	24
201	Review on heavy metal adsorption processes by carbon nanotubes. *Journal of Cleaner Production*, **2019**, 230, 783-793	10.3	181
200	Towards a time and cost effective approach to water quality index class prediction. *Journal of Hydrology*, **2019**, 575, 148-165	6	42
199	Mercury removal from water using deep eutectic solvents-functionalized multi walled carbon nanotubes: Nonlinear autoregressive network with an exogenous input neural network approach. *Environmental Progress and Sustainable Energy*, **2019**, 38, e13261	2.5	6
198	A Novel Hybrid Evolutionary Data-Intelligence Algorithm for Irrigation and Power Production Management: Application to Multi-Purpose Reservoir Systems. *Sustainability*, **2019**, 11, 1953	3.6	20
197	Rheological wall slip velocity prediction model based on artificial neural network. *Journal of Experimental and Theoretical Artificial Intelligence*, **2019**, 31, 659-676	2	13
196	Wavelet Transform Based Method for River Stream Flow Time Series Frequency Analysis and Assessment in Tropical Environment. *Water Resources Management*, **2019**, 33, 2015-2032	3.7	12
195	Assessing the Predictability of an Improved ANFIS Model for Monthly Streamflow Using Lagged Climate Indices as Predictors. *Water (Switzerland)*, **2019**, 11, 1130	3	28
194	A novel Master8lave optimization algorithm for generating an optimal release policy in case of reservoir operation. *Journal of Hydrology*, **2019**, 577, 123959	6	9
193	New Evolutionary Algorithm for Optimizing Hydropower Generation Considering Multireservoir Systems. *Applied Sciences (Switzerland)*, **2019**, 9, 2280	2.6	19

192	Accuracy Enhancement for Zone Mapping of a Solar Radiation Forecasting Based Multi-Objective Model for Better Management of the Generation of Renewable Energy. *Energies*, **2019**, 12, 2730	3.1	11
191	Efficient forecasting model technique for river stream flow in tropical environment. *Urban Water Journal*, **2019**, 16, 183-192	2.3	12
190	Reservoir Evaporation Prediction Modeling Based on Artificial Intelligence Methods. *Water (Switzerland)*, **2019**, 11, 1226	3	13
189	Water Quality Prediction Model Based Support Vector Machine Model for Ungauged River Catchment under Dual Scenarios. *Water (Switzerland)*, **2019**, 11, 1231	3	43
188	Materials Challenges in Reconstruction of Historical Projects: A Case Study of the Old Riwaq Project. *Sustainability*, **2019**, 11, 4533	3.6	1
187	Investigation on the Potential to Integrate Different Artificial Intelligence Models with Metaheuristic Algorithms for Improving River Suspended Sediment Predictions. *Applied Sciences (Switzerland)*, **2019**, 9, 4149	2.6	14
186	Machine learning methods for better water quality prediction. *Journal of Hydrology*, **2019**, 578, 124084	6	111
185	ANNs and inflow forecast to aid stochastic optimization of reservoir operation. *Journal of Applied Water Engineering and Research*, **2019**, 7, 314-323	1.2	2
184	Prediction of Suspended Sediment Load Using Data-Driven Models. *Water (Switzerland)*, **2019**, 11, 2060	3	36
183	Improving Dam and Reservoir Operation Rules Using Stochastic Dynamic Programming and Artificial Neural Network Integration Model. *Sustainability*, **2019**, 11, 5367	3.6	11
182	Sensitivity analysis of artificial neural networks for just-suspension speed prediction in solid-liquid mixing systems: Performance comparison of MLPNN and RBFNN. *Advanced Engineering Informatics*, **2019**, 39, 278-291	7.4	15
181	Application of a Coordination Model for a Large Number of Stakeholders with a New Game Theory Model. *Water Resources Management*, **2019**, 33, 5207-5230	3.7	1
180	Precipitation Forecasting Using Multilayer Neural Network and Support Vector Machine Optimization Based on Flow Regime Algorithm Taking into Account Uncertainties of Soft Computing Models. *Sustainability*, **2019**, 11, 6681	3.6	18
179	A New Method for Flood Routing Utilizing Four-Parameter Nonlinear Muskingum and Shark Algorithm. *Water Resources Management*, **2019**, 33, 4879-4893	3.7	6
178	A hybrid bat–swarm algorithm for optimizing dam and reservoir operation. *Neural Computing and Applications*, **2019**, 31, 8807-8821	4.8	39
177	Forecasting hydrological parameters for reservoir system utilizing artificial intelligent models and exploring their influence on operation performance. *Knowledge-Based Systems*, **2019**, 163, 907-926	7.3	19
176	New approach to mimic rheological actual shear rate under wall slip condition. *Engineering With Computers*, **2019**, 35, 1409-1418	4.5	8
175	Leachate generation rate modeling using artificial intelligence algorithms aided by input optimization method for an MSW landfill. *Environmental Science and Pollution Research*, **2019**, 26, 3368-3381	5.1	29

174	Novel reservoir system simulation procedure for gap minimization between water supply and demand. *Journal of Cleaner Production*, **2019**, 206, 928-943	10.3	20
173	Identification of potential sites for runoff water harvesting. *Water Management*, **2019**, 172, 135-148	1	11
172	Optimization of energy management and conversion in the water systems based on evolutionary algorithms. *Neural Computing and Applications*, **2019**, 31, 5951-5964	4.8	18
171	Analysing the accuracy of machine learning techniques to develop an integrated influent time series model: case study of a sewage treatment plant, Malaysia. *Environmental Science and Pollution Research*, **2018**, 25, 12139-12149	5.1	20
170	The influence of climatic inputs on stream-flow pattern forecasting: case study of Upper Senegal River. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	36
169	Influence of bed deposit in the prediction of incipient sediment motion in sewers using artificial neural networks. *Urban Water Journal*, **2018**, 15, 296-302	2.3	23
168	Review on applications of artificial intelligence methods for dam and reservoir-hydro-environment models. *Environmental Science and Pollution Research*, **2018**, 25, 13446-13469	5.1	31
167	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. *Journal of Hydroinformatics*, **2018**, 20, 332-355	2.6	47
166	Application of the Hybrid Artificial Neural Network Coupled with Rolling Mechanism and Grey Model Algorithms for Streamflow Forecasting Over Multiple Time Horizons. *Water Resources Management*, **2018**, 32, 1883-1899	3.7	55
165	Synchronizing Artificial Intelligence Models for Operating the Dam and Reservoir System. *Water Resources Management*, **2018**, 32, 3373-3389	3.7	19
164	RBF-NN-based model for prediction of weld bead geometry in Shielded Metal Arc Welding (SMAW). *Neural Computing and Applications*, **2018**, 29, 889-899	4.8	23
163	Non-tuned machine learning approach for hydrological time series forecasting. *Neural Computing and Applications*, **2018**, 30, 1479-1491	4.8	51
162	System performances analysis of reservoir optimization–simulation model in application of artificial bee colony algorithm. *Neural Computing and Applications*, **2018**, 30, 2101-2112	4.8	7
161	Support vector regression-based model for prediction of behavior stone column parameters in soft clay under highway embankment. *Neural Computing and Applications*, **2018**, 30, 2459-2469	4.8	15
160	Self-adaptive conjugate method for a robust and efficient performance measure approach for reliability-based design optimization. *Engineering With Computers*, **2018**, 34, 187-202	4.5	21
159	Reservoir inflow forecasting with a modified coactive neuro-fuzzy inference system: a case study for a semi-arid region. *Theoretical and Applied Climatology*, **2018**, 134, 545-563	3	18
158	Optimization of Reservoir Operation using New Hybrid Algorithm. *KSCE Journal of Civil Engineering*, **2018**, 22, 4668-4680	1.9	14
157	Operating a reservoir system based on the shark machine learning algorithm. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	11

156	Reservoir Operation by a New Evolutionary Algorithm: Kidney Algorithm. *Water Resources Management*, **2018**, 32, 4681-4706	3.7	25
155	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. *Water (Switzerland)*, **2018**, 10, 807	3	21
154	Flood Routing in River Reaches Using a Three-Parameter Muskingum Model Coupled with an Improved Bat Algorithm. *Water (Switzerland)*, **2018**, 10, 1130	3	22
153	Assessment of Stochastic Operation Optimization for Reservoirs of Contrasting Scales. *Water Resources Management*, **2018**, 32, 3751-3763	3.7	6
152	BTPC-Based DES-Functionalized CNTs for As3+ Removal from Water: NARX Neural Network Approach. *Journal of Environmental Engineering, ASCE*, **2018**, 144, 04018070	2	13
151	Nose-Angle Bridge Piers as Alternative Countermeasures for Local Scour Reduction. *Baltic Journal of Road and Bridge Engineering*, **2018**, 13, 110-120	0.9	1
150	Delay Factors in Reconstruction Projects: A Case Study of Mataf Expansion Project. *Sustainability*, **2018**, 10, 4772	3.6	6
149	New approach for developing soft computational prediction models for moment and rotation of boltless steel connections. *Thin-Walled Structures*, **2018**, 133, 206-215	4.7	6
148	Arsenic removal from water using N,N-diethylethanolammonium chloride based DES-functionalized CNTs: (NARX) neural network approach **2018**, 67, 531-542		7
147	Irrigation Management Based on Reservoir Operation with an Improved Weed Algorithm. *Water (Switzerland)*, **2018**, 10, 1267	3	10
146	The Integration of Nature-Inspired Algorithms with Least Square Support Vector Regression Models: Application to Modeling River Dissolved Oxygen Concentration. *Water (Switzerland)*, **2018**, 10, 1124	3	42
145	The state-of-the-art system dynamics application in integrated water resources modeling. *Journal of Environmental Management*, **2018**, 227, 294-304	7.9	52
144	Wavelet-ANN versus ANN-Based Model for Hydrometeorological Drought Forecasting. *Water (Switzerland)*, **2018**, 10, 998	3	28
143	Comparative study on using static and dynamic finite element models to develop FWD measurement on flexible pavement structures. *Construction and Building Materials*, **2018**, 176, 583-592	6.7	21
142	Bat algorithm for dam‒reservoir operation. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	16
141	RBFNN-based model for heavy metal prediction for different climatic and pollution conditions. *Neural Computing and Applications*, **2017**, 28, 1991-2003	4.8	35
140	Application of soft computing based hybrid models in hydrological variables modeling: a comprehensive review. *Theoretical and Applied Climatology*, **2017**, 128, 875-903	3	86
139	Application of artificial intelligence (AI) techniques in water quality index prediction: a case study in tropical region, Malaysia. *Neural Computing and Applications*, **2017**, 28, 893-905	4.8	88

138	Uncertainty Estimation in Flood Inundation Mapping: An Application of Non-parametric Bootstrapping. *River Research and Applications*, **2017**, 33, 611-619	2.3	19
137	Optimizing dam and reservoirs operation based model utilizing shark algorithm approach. *Knowledge-Based Systems*, **2017**, 122, 26-38	7.3	61
136	Artificial intelligence and geo-statistical models for stream-flow forecasting in ungauged stations: state of the art. *Natural Hazards*, **2017**, 86, 1377-1392	3	18
135	Optimisation of Multiple Hydropower Reservoir Operation Using Artificial Bee Colony Algorithm. *Water Resources Management*, **2017**, 31, 1397-1411	3.7	15
134	An evaluation of existent methods for estimation of embankment dam breach parameters. *Natural Hazards*, **2017**, 87, 545-566	3	21
133	Optimization of area volume elevation curve using GIS RTM method for rainwater harvesting in arid areas. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	13
132	Ensuring water security by utilizing roof-harvested rainwater and lake water treated with a low-cost integrated adsorption-filtration system. *Water Science and Engineering*, **2017**, 10, 115-124	4	14
131	Optimization of Chain-Reservoirs Operation with a New Approach in Artificial Intelligence. *Water Resources Management*, **2017**, 31, 2085-2104	3.7	32
130	Fast convergence optimization model for single and multi-purposes reservoirs using hybrid algorithm. *Advanced Engineering Informatics*, **2017**, 32, 287-298	7.4	19
129	Heavy metal monitoring, analysis and prediction in lakes and rivers: state of the art. *Environmental Science and Pollution Research*, **2017**, 24, 12104-12117	5.1	27
128	Performance Enhancement of Rainfall Pattern Water Level Prediction Model Utilizing Self-Organizing-Map Clustering Method. *Water Resources Management*, **2017**, 31, 945-959	3.7	11
127	Prediction of Stream Flow in Humid Tropical Rivers by Support Vector Machines. *MATEC Web of Conferences*, **2017**, 111, 01007	0.3	7
126	Robust approach for optimal positioning and ranking potential rainwater harvesting structure (RWH): a case study of Iraq. *Arabian Journal of Geosciences*, **2017**, 10, 1	1.8	11
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