Mohammad Ehteram

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10836688/publications.pdf

Version: 2024-02-01

70 papers	2,426 citations	185998 28 h-index	243296 44 g-index
70 all docs	70 docs citations	70 times ranked	1344 citing authors

#	Article	IF	Citations
1	Machine learning methods for better water quality prediction. Journal of Hydrology, 2019, 578, 124084.	2.3	256
2	Water Quality Prediction Model Based Support Vector Machine Model for Ungauged River Catchment under Dual Scenarios. Water (Switzerland), 2019, 11, 1231.	1.2	88
3	Reservoir operation based on evolutionary algorithms and multi-criteria decision-making under climate change and uncertainty. Journal of Hydroinformatics, 2018, 20, 332-355.	1.1	84
4	Modeling and Uncertainty Analysis of Groundwater Level Using Six Evolutionary Optimization Algorithms Hybridized with ANFIS, SVM, and ANN. Sustainability, 2020, 12, 4023.	1.6	83
5	A hybrid batâ€“swarm algorithm for optimizing dam and reservoir operation. Neural Computing and Applications, 2019, 31, 8807-8821.	3.2	68
6	Suspended sediment load prediction using artificial neural network and ant lion optimization algorithm. Environmental Science and Pollution Research, 2020, 27, 38094-38116.	2.7	67
7	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.	1.2	64
8	Estimation of total dissolved solids (TDS) using new hybrid machine learning models. Journal of Hydrology, 2020, 587, 124989.	2.3	63
9	Enhancement of Groundwater-Level Prediction Using an Integrated Machine Learning Model Optimized by Whale Algorithm. Natural Resources Research, 2020, 29, 3233-3252.	2.2	62
10	Zoning map for drought prediction using integrated machine learning models with a nomadic people optimization algorithm. Natural Hazards, 2020, 104, 537-579.	1.6	56
11	Efficiency evaluation of reverse osmosis desalination plant using hybridized multilayer perceptron with particle swarm optimization. Environmental Science and Pollution Research, 2020, 27, 15278-15291.	2.7	56
12	Hybridization of artificial intelligence models with nature inspired optimization algorithms for lake water level prediction and uncertainty analysis. AEJ - Alexandria Engineering Journal, 2021, 60, 2193-2208.	3.4	53
13	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. PLoS ONE, 2019, 14, e0217499.	1.1	51
14	Design of a hybrid ANN multi-objective whale algorithm for suspended sediment load prediction. Environmental Science and Pollution Research, 2021, 28, 1596-1611.	2.7	49
15	Assessing the Predictability of an Improved ANFIS Model for Monthly Streamflow Using Lagged Climate Indices as Predictors. Water (Switzerland), 2019, 11, 1130.	1.2	44
16	Reservoir Operation by a New Evolutionary Algorithm: Kidney Algorithm. Water Resources Management, 2018, 32, 4681-4706.	1.9	42
17	Improving the Muskingum Flood Routing Method Using a Hybrid of Particle Swarm Optimization and Bat Algorithm. Water (Switzerland), 2018, 10, 807.	1.2	41
18	Integrated support vector regression and an improved particle swarm optimization-based model for solar radiation prediction. PLoS ONE, 2019, 14, e0217634.	1.1	39

#	Article	IF	Citations
19	Optimization of Chain-Reservoirsâ€™ Operation with a New Approach in Artificial Intelligence. Water Resources Management, 2017, 31, 2085-2104.	1.9	38
20	Reducing Irrigation Deficiencies Based Optimizing Model for Multi-Reservoir Systems Utilizing Spider Monkey Algorithm. Water Resources Management, 2018, 32, 2315-2334.	1.9	38
21	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.	3.5	38
22	Optimization of energy management and conversion in the multi-reservoir systems based on evolutionary algorithms. Journal of Cleaner Production, 2017, 168, 1132-1142.	4.6	37
23	Streamflow prediction with large climate indices using several hybrid multilayer perceptrons and copula Bayesian model averaging. Ecological Indicators, 2021, 133, 108285.	2.6	36
24	Flood Routing in River Reaches Using a Three-Parameter Muskingum Model Coupled with an Improved Bat Algorithm. Water (Switzerland), 2018, 10, 1130.	1.2	34
25	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.	4.6	33
26	A new soft computing model for daily streamflow forecasting. Stochastic Environmental Research and Risk Assessment, 2021, 35, 2479-2491.	1.9	31
27	Predicting municipal solid waste using a coupled artificial neural network with archimedes optimisation algorithm and socioeconomic components. Journal of Cleaner Production, 2021, 315, 128039.	4.6	31
28	A Novel Hybrid Evolutionary Data-Intelligence Algorithm for Irrigation and Power Production Management: Application to Multi-Purpose Reservoir Systems. Sustainability, 2019, 11, 1953.	1.6	30
29	Open Channel Sluice Gate Scouring Parameters Prediction: Different Scenarios of Dimensional and Non-Dimensional Input Parameters. Water (Switzerland), 2019, 11, 353.	1.2	30
30	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.	1.6	30
31	Fast convergence optimization model for single and multi-purposes reservoirs using hybrid algorithm. Advanced Engineering Informatics, 2017, 32, 287-298.	4.0	29
32	Synchronizing Artificial Intelligence Models for Operating the Dam and Reservoir System. Water Resources Management, 2018, 32, 3373-3389.	1.9	29
33	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.	3.5	29
34	Suspended sediment load prediction based on soft computing models and Black Widow Optimization Algorithm using an enhanced gamma test. Environmental Science and Pollution Research, 2021, 28, 48253-48273.	2.7	28
35	Uncertainties of instantaneous influent flow predictions by intelligence models hybridized with multi-objective shark smell optimization algorithm. Journal of Hydrology, 2020, 587, 124977.	2.3	27
36	Multi-model ensemble prediction of pan evaporation based on the Copula Bayesian Model Averaging approach. Engineering Applications of Artificial Intelligence, 2022, 114, 105124.	4.3	27

#	Article	IF	Citations
37	Reservoir Optimization for Energy Production Using a New Evolutionary Algorithm Based on Multi-Criteria Decision-Making Models. Water Resources Management, 2018, 32, 2539-2560.	1.9	26
38	Evaluation of contemporary evolutionary algorithms for optimization in reservoir operation and water supply. Journal of Water Supply: Research and Technology - AQUA, 2018, 67, 54-67.	0.6	26
39	Optimization of Reservoir Operation using New Hybrid Algorithm. KSCE Journal of Civil Engineering, 2018, 22, 4668-4680.	0.9	25
40	Improved Krill Algorithm for Reservoir Operation. Water Resources Management, 2018, 32, 3353-3372.	1.9	25
41	Multi-timescale drought prediction using new hybrid artificial neural network models. Natural Hazards, 2021, 106, 2461-2478.	1.6	25
42	New Evolutionary Algorithm for Optimizing Hydropower Generation Considering Multireservoir Systems. Applied Sciences (Switzerland), 2019, 9, 2280.	1.3	24
43	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.	1.3	24
44	Prediction of daily suspended sediment load (SSL) using new optimization algorithms and soft computing models. Soft Computing, 2021, 25, 7609-7626.	2.1	24
45	Operating a reservoir system based on the shark machine learning algorithm. Environmental Earth Sciences, 2018, 77, 1.	1.3	23
46	Development of a Novel Hybrid Optimization Algorithm for Minimizing Irrigation Deficiencies. Sustainability, 2019, 11, 2337.	1.6	23
47	Optimization of energy management and conversion in the water systems based on evolutionary algorithms. Neural Computing and Applications, 2019, 31, 5951-5964.	3.2	23
48	Pipeline Scour Rates Prediction-Based Model Utilizing a Multilayer Perceptron-Colliding Body Algorithm. Water (Switzerland), 2020, 12, 902.	1.2	23
49	A hybrid novel SVM model for predicting CO2 emissions using Multiobjective Seagull Optimization. Environmental Science and Pollution Research, 2021, 28, 66171-66192.	2.7	22
50	GLUE uncertainty analysis of hybrid models for predicting hourly soil temperature and application wavelet coherence analysis for correlation with meteorological variables. Soft Computing, 2021, 25, 10723-10748.	2.1	22
51	Exploring Bayesian model averaging with multiple ANNs for meteorological drought forecasts. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1835-1860.	1.9	22
52	Multi-Reservoir System Optimization Based on Hybrid Gravitational Algorithm to Minimize Water-Supply Deficiencies. Water Resources Management, 2019, 33, 2741-2760.	1.9	20
53	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.	2.5	20
54	Inclusive Multiple Model Using Hybrid Artificial Neural Networks for Predicting Evaporation. Frontiers in Environmental Science, 2022, 9, .	1.5	20

#	Article	IF	Citations
55	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.	1.6	18
56	A robust integrated Bayesian multi-model uncertainty estimation framework (IBMUEF) for quantifying the uncertainty of hybrid meta-heuristic in global horizontal irradiation predictions. Energy Conversion and Management, 2021, 241, 114292.	4.4	18
57	Irrigation Management Based on Reservoir Operation with an Improved Weed Algorithm. Water (Switzerland), 2018, 10, 1267.	1.2	17
58	A New Method for Flood Routing Utilizing Four-Parameter Nonlinear Muskingum and Shark Algorithm. Water Resources Management, 2019, 33, 4879-4893.	1.9	14
59	Crow Algorithm for Irrigation Management: A Case Study. Water Resources Management, 2020, 34, 1021-1045.	1.9	14
60	Predicting evaporation with optimized artificial neural network using multi-objective salp swarm algorithm. Environmental Science and Pollution Research, 2022, 29, 10675-10701.	2.7	13
61	Optimal operation of multi-reservoir systems for increasing power generation using a seagull optimization algorithm and heading policy. Energy Reports, 2021, 7, 3703-3725.	2.5	13
62	Estimating the transient storage parameters for pollution modeling in small streams: a comparison of newly developed hybrid optimization algorithms. Environmental Monitoring and Assessment, 2021, 193, 475.	1.3	10
63	Solar radiation prediction using improved soft computing models for semi-arid, slightly-arid and humid climates. AEJ - Alexandria Engineering Journal, 2022, 61, 10631-10657.	3.4	10
64	Improved prediction of daily pan evaporation using Bayesian Model Averaging and optimized Kernel Extreme Machine models in different climates. Stochastic Environmental Research and Risk Assessment, 2022, 36, 3875-3910.	1.9	9
65	Toward Bridging Future Irrigation Deficits Utilizing the Shark Algorithm Integrated with a Climate Change Model. Applied Sciences (Switzerland), 2019, 9, 3960.	1.3	8
66	The copper grade estimation of porphyry deposits using machine learning algorithms and Henry gas solubility optimization. Earth Science Informatics, 2021, 14, 2049-2075.	1.6	8
67	An inclusive multiple model for predicting total sediment transport rate in the presence of coastal vegetation cover based on optimized kernel extreme learning models. Environmental Science and Pollution Research, 2022, 29, 67180-67213.	2.7	7
68	Multi-objective Optimization Approaches for Design, Planning, and Management of Water Resource Systems. Springer Water, 2021, , 275-303.	0.2	4
69	Optimal operation of hydropower reservoirs under climate change. Environment, Development and Sustainability, 2023, 25, 10627-10659.	2.7	3
70	Application of a Coordination Model for a Large Number of Stakeholders with a New Game Theory Model. Water Resources Management, 2019, 33, 5207-5230.	1.9	2