Ozgur Kisi

List of Publications by Year
in descending order

470 papers	24,932 citations	4960 84 h-index	17105 122 g-index
482 all docs	482 docs citations	482 times ranked	10167 citing authors

#	Article	IF	Citations
1	Applications of hybrid waveletâ€“Artificial Intelligence models in hydrology: A review. Journal of Hydrology, 2014, 514, 358-377.	5.4	558
2	Streamflow Forecasting Using Different Artificial Neural Network Algorithms. Journal of Hydrologic Engineering - ASCE, 2007, 12, 532-539.	1.9	340
3	Two hybrid Artificial Intelligence approaches for modeling rainfallâ€“runoff process. Journal of Hydrology, 2011, 402, 41-59.	5.4	273
4	Application of least square support vector machine and multivariate adaptive regression spline models in long term prediction of river water pollution. Journal of Hydrology, 2016, 534, 104-112.	5.4	263
5	A wavelet-support vector machine conjunction model for monthly streamflow forecasting. Journal of Hydrology, 2011, 399, 132-140.	5.4	262
6	Wavelet and neuro-fuzzy conjunction model for precipitation forecasting. Journal of Hydrology, 2007, 342, 199-212.	5.4	260
7	Stream-flow forecasting using extreme learning machines: A case study in a semi-arid region in Iraq. Journal of Hydrology, 2016, 542, 603-614.	5.4	257
8	SVM, ANFIS, regression and climate based models for reference evapotranspiration modeling using limited climatic data in a semi-arid highland environment. Journal of Hydrology, 2012, 444-445, 78-89.	5.4	237
9	Drought forecasting in eastern Australia using multivariate adaptive regression spline, least square support vector machine and M5Tree model. Atmospheric Research, 2017, 184, 149-175.	4.1	236
10	Daily water level forecasting using wavelet decomposition and artificial intelligence techniques. Journal of Hydrology, 2015, 520, 224-243.	5.4	232
11	River Flow Modeling Using Artificial Neural Networks. Journal of Hydrologic Engineering - ASCE, 2004, 9, 60-63.	1.9	231
12	Solar radiation prediction using different techniques: model evaluation and comparison. Renewable and Sustainable Energy Reviews, 2016, 61, 384-397.	16.4	230
13	Comparison of Mannâ€“Kendall and innovative trend method for water quality parameters of the Kizilirmak River, Turkey. Journal of Hydrology, 2014, 513, 362-375.	5.4	229
14	Extreme Learning Machines: A new approach for prediction of reference evapotranspiration. Journal of Hydrology, 2015, 527, 184-195.	5.4	207
15	Pan evaporation modeling using least square support vector machine, multivariate adaptive regression splines and M5 model tree. Journal of Hydrology, 2015, 528, 312-320.	5.4	205
16	Modeling rainfall-runoff process using soft computing techniques. Computers and Geosciences, 2013, 51, 108-117.	4.2	194
17	Multi-layer perceptrons with Levenberg-Marquardt training algorithm for suspended sediment concentration prediction and estimation / PrÃ©vision et estimation de la concentration en matiÃ¨res en suspension avec des perceptrons multi-couches et lâ€™algorithme dâ€™apprentissage de Levenberg-Marquardt. Hydrological Sciences Journal, 2004, 49, .	2.6	186
18	A genetic programming approach to suspended sediment modelling. Journal of Hydrology, 2008, 351, 288-298.	5.4	178

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19	Flow prediction by three back propagation techniques using k-fold partitioning of neural network training data. Hydrology Research, 2005, 36, 49-64.	2.7	175
20	Methods to improve the neural network performance in suspended sediment estimation. Journal of Hydrology, 2006, 317, 221-238.	5.4	171
21	Suspended sediment estimation using neuro-fuzzy and neural network approaches/Estimation des matiÃ¨res en suspension par des approches neurofloues et Ã base de rÃ©seau de neurones. Hydrological Sciences Journal, 2005, 50, .	2.6	167
22	A comparative assessment of GIS-based data mining models and a novel ensemble model in groundwater well potential mapping. Journal of Hydrology, 2017, 548, 471-483.	5.4	163
23	Least square support vector machine and multivariate adaptive regression splines for streamflow prediction in mountainous basin using hydro-meteorological data as inputs. Journal of Hydrology, 2020, 586, 124371.	5.4	162
24	Daily pan evaporation modelling using a neuro-fuzzy computing technique. Journal of Hydrology, 2006, 329, 636-646.	5.4	161
25	Improving artificial intelligence models accuracy for monthly streamflow forecasting using grey Wolf optimization (GWO) algorithm. Journal of Hydrology, 2020, 582, 124435.	5.4	160
26	Generalized regression neural networks for evapotranspiration modelling. Hydrological Sciences Journal, 2006, 51, 1092-1105.	2.6	158
27	Neural Networks and Wavelet Conjunction Model for Intermittent Streamflow Forecasting. Journal of Hydrologic Engineering - ASCE, 2009, 14, 773-782.	1.9	156
28	Suspended sediment modeling using genetic programming and soft computing techniques. Journal of Hydrology, 2012, 450-451, 48-58.	5.4	156
29	Long-Term Trends and Seasonality Detection of the Observed Flow in Yangtze River Using Mann-Kendall and Senâ€™s Innovative Trend Method. Water (Switzerland), 2019, 11, 1855.	2.7	155
30	Short-term and long-term streamflow forecasting using a wavelet and neuro-fuzzy conjunction model. Journal of Hydrology, 2010, 394, 486-493.	5.4	151
31	Forecasting daily lake levels using artificial intelligence approaches. Computers and Geosciences, 2012, 41, 169-180.	4.2	148
32	Daily streamflow prediction using optimally pruned extreme learning machine. Journal of Hydrology, 2019, 577, 123981.	5.4	147
33	Suspended sediment concentration estimation by an adaptive neuro-fuzzy and neural network approaches using hydro-meteorological data. Journal of Hydrology, 2009, 367, 52-61.	5.4	146
34	Precipitation Forecasting Using Wavelet-Genetic Programming and Wavelet-Neuro-Fuzzy Conjunction Models. Water Resources Management, 2011, 25, 3135-3152.	3.9	145
35	River flow forecasting and estimation using different artificial neural network techniques. Hydrology Research, 2008, 39, 27-40.	2.7	140
36	Evapotranspiration modelling from climatic data using a neural computing technique. Hydrological Processes, 2007, 21, 1925-1934.	2.6	139

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37	Daily reference evapotranspiration modeling by using genetic programming approach in the Basque Country (Northern Spain). Journal of Hydrology, 2012, 414-415, 302-316.	5.4	139
38	Precipitation forecasting by using wavelet-support vector machine conjunction model. Engineering Applications of Artificial Intelligence, 2012, 25, 783-792.	8.1	138
39	Comparison of heuristic and empirical approaches for estimating reference evapotranspiration from limited inputs in Iran. Computers and Electronics in Agriculture, 2014, 108, 230-241.	7.7	134
40	Quantifying hourly suspended sediment load using data mining models: Case study of a glacierized Andean catchment in Chile. Journal of Hydrology, 2018, 567, 165-179.	5.4	133
41	Predicting groundwater level fluctuations with meteorological effect implicationsâ€"A comparative study among soft computing techniques. Computers and Geosciences, 2013, 56, 32-44.	4.2	132
42	Modelling daily dissolved oxygen concentration using least square support vector machine, multivariate adaptive regression splines and M5 model tree. Journal of Hydrology, 2018, 559, 499-509.	5.4	131
43	Adaptive Neurofuzzy Computing Technique for Evapotranspiration Estimation. Journal of Irrigation and Drainage Engineering - ASCE, 2007, 133, 368-379.	1.0	130
44	The potential of different ANN techniques in evapotranspiration modelling. Hydrological Processes, 2008, 22, 2449-2460.	2.6	128
45	Comparison of different ANN techniques in river flow prediction. Civil Engineering and Environmental Systems, 2007, 24, 211-231.	0.9	127
46	Multiple linear regression, multi-layer perceptron network and adaptive neuro-fuzzy inference system for forecasting precipitation based on large-scale climate signals. Hydrological Sciences Journal, 2016, 61, 1001-1009.	2.6	124
47	Stream flow forecasting using neuroâ€wavelet technique. Hydrological Processes, 2008, 22, 4142-4152.	2.6	123
48	Improving streamflow prediction using a new hybrid ELM model combined with hybrid particle swarm optimization and grey wolf optimization. Knowledge-Based Systems, 2021, 230, 107379.	7.1	117
49	Comparison of four heuristic regression techniques in solar radiation modeling: Kriging method vs RSM, MARS and M5 model tree. Renewable and Sustainable Energy Reviews, 2018, 81, 330-341.	16.4	116
50	Groundwater quality ranking for drinking purposes, using the entropy method and the spatial autocorrelation index. Environmental Earth Sciences, 2017, 76, 1.	2.7	114
51	River Suspended Sediment Load Prediction: Application of ANN and Wavelet Conjunction Model. Journal of Hydrologic Engineering - ASCE, 2011, 16, 613-627.	1.9	113
52	Comparison of genetic programming with neuro-fuzzy systems for predicting short-term water table depth fluctuations. Computers and Geosciences, 2011, 37, 1692-1701.	4.2	113
53	Evapotranspiration modelling using support vector machines / ModÃ©lisation de l'Ã©vapotranspiration Ã l'aide de â€˜support vector machinesâ€™. Hydrological Sciences Journal, 2009, 54, 918-928.	2.6	112
54	An innovative method for trend analysis of monthly pan evaporations. Journal of Hydrology, 2015, 527, 1123-1129.	5.4	111

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55	River Flow Estimation and Forecasting by Using Two Different Adaptive Neuro-Fuzzy Approaches. Water Resources Management, 2012, 26, 1715-1729.	3.9	110
56	Temperature-based modeling of reference evapotranspiration using several artificial intelligence models: application of different modeling scenarios. Theoretical and Applied Climatology, 2019, 135, 449-462.	2.8	108
57	Predicting the compressive strength of steel fiber added lightweight concrete using neural network. Computational Materials Science, 2008, 42, 259-265.	3.0	107
58	Hybrid Adaptive Neuro-Fuzzy Models for Water Quality Index Estimation. Water Resources Management, 2018, 32, 2227-2245.	3.9	107
59	Modeling reference evapotranspiration using three different heuristic regression approaches. Agricultural Water Management, 2016, 169, 162-172.	5.6	103
60	Hydrologic Alteration at the Upper and Middle Part of the Yangtze River, China: Towards Sustainable Water Resource Management Under Increasing Water Exploitation. Sustainability, 2019, 11, 5176.	3.2	103
61	Long-term monthly evapotranspiration modeling by several data-driven methods without climatic data. Computers and Electronics in Agriculture, 2015, 115, 66-77.	7.7	102
62	River suspended sediment estimation by climatic variables implication: Comparative study among soft computing techniques. Computers and Geosciences, 2012, 43, 73-82.	4.2	101
63	Evaluation of data driven models for river suspended sediment concentration modeling. Journal of Hydrology, 2016, 535, 457-472.	5.4	101
64	Modelling reference evapotranspiration using a new wavelet conjunction heuristic method: Wavelet extreme learning machine vs wavelet neural networks. Agricultural and Forest Meteorology, 2018, 263, 41-48.	4.8	101
65	Wavelet regression model for short-term streamflow forecasting. Journal of Hydrology, 2010, 389, 344-353.	5.4	100
66	Investigation of trend analysis of monthly total precipitation by an innovative method. Theoretical and Applied Climatology, 2015, 120, 617-629.	2.8	100
67	Enhancing Long-Term Streamflow Forecasting and Predicting using Periodicity Data Component: Application of Artificial Intelligence. Water Resources Management, 2016, 30, 4125-4151.	3.9	100
68	Pan evaporation modeling using six different heuristic computing methods in different climates of China. Journal of Hydrology, 2017, 544, 407-427.	5.4	98
69	Adaptive neuro-fuzzy computing technique for suspended sediment estimation. Advances in Engineering Software, 2009, 40, 438-444.	3.8	97
70	Estimation of monthly reference evapotranspiration using novel hybrid machine learning approaches. Hydrological Sciences Journal, 2019, 64, 1824-1842.	2.6	97
71	Predicting behavior of FRP-confined concrete using neuro fuzzy, neural network, multivariate adaptive regression splines and M5 model tree techniques. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4319-4334.	3.1	96
72	Comparison of Gene Expression Programming with neuro-fuzzy and neural network computing techniques in estimating daily incoming solar radiation in the Basque Country (Northern Spain). Energy Conversion and Management, 2012, 62, 1-13.	9.2	95

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73	A survey of water level fluctuation predicting in Urmia Lake using support vector machine with firefly algorithm. Applied Mathematics and Computation, 2015, 270, 731-743.	2.2	95
74	Non-tuned data intelligent model for soil temperature estimation: A new approach. Geoderma, 2018, 330, 52-64.	5.1	95
75	A comparative study of several machine learning based non-linear regression methods in estimating solar radiation: Case studies of the USA and Turkey regions. Energy, 2020, 197, 117239.	8.8	95
76	Modeling discharge-suspended sediment relationship using least square support vector machine. Journal of Hydrology, 2012, 456-457, 110-120.	5.4	94
77	Rainfall-runoff modelling using improved machine learning methods: Harris hawks optimizer vs. particle swarm optimization. Journal of Hydrology, 2020, 589, 125133.	5.4	94
78	Drought forecasting using novel heuristic methods in a semi-arid environment. Journal of Hydrology, 2019, 578, 124053.	5.4	92
79	Neuro-fuzzy and neural network techniques for forecasting sea level in Darwin Harbor, Australia. Computers and Geosciences, 2013, 52, 50-59.	4.2	91
80	Estimation of Monthly Mean Reference Evapotranspiration in Turkey. Water Resources Management, 2014, 28, 99-113.	3.9	91
81	Generalizability of Gene Expression Programming-based approaches for estimating daily reference evapotranspiration in coastal stations of Iran. Journal of Hydrology, 2014, 508, 1-11.	5.4	91
82	A new approach for simulating and forecasting the rainfall-runoff process within the next two months. Journal of Hydrology, 2017, 548, 588-597.	5.4	91
83	Evaluation of mechanical properties of concretes containing coarse recycled concrete aggregates using multivariate adaptive regression splines (MARS), M5 model tree (M5Tree), and least squares support vector regression (LSSVR) models. Neural Computing and Applications, 2020, 32, 295-308.	5.6	89
84	Precipitation forecasting using classification and regression trees (CART) model: a comparative study of different approaches. Environmental Earth Sciences, 2018, 77, 1.	2.7	88
85	Investigating chaos in river stage and discharge time series. Journal of Hydrology, 2012, 414-415, 108-117.	5.4	87
86	Support vector regression optimized by meta-heuristic algorithms for daily streamflow prediction. Stochastic Environmental Research and Risk Assessment, 2020, 34, 1755-1773.	4.0	87
87	Comparison of two different data-driven techniques in modeling lake level fluctuations in Turkey. Journal of Hydrology, 2009, 378, 253-262.	5.4	86
88	Daily pan evaporation modeling using linear genetic programming technique. Irrigation Science, 2011, 29, 135-145.	2.8	86
89	Intermittent Streamflow Forecasting by Using Several Data Driven Techniques. Water Resources Management, 2012, 26, 457-474.	3.9	86
90	Modeling monthly pan evaporation using wavelet support vector regression and wavelet artificial neural networks in arid and humid climates. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 177-187.	3.1	86

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91	Wavelet-linear genetic programming: A new approach for modeling monthly streamflow. Journal of Hydrology, 2017, 549, 461-475.	5.4	84
92	Extreme learning machines: a new approach for modeling dissolved oxygen (DO) concentration with and without water quality variables as predictors. Environmental Science and Pollution Research, 2017, 24, 16702-16724.	5.3	84
93	Artificial intelligence models versus empirical equations for modeling monthly reference evapotranspiration. Environmental Science and Pollution Research, 2020, 27, 30001-30019.	5.3	83
94	Application of two different neural network techniques to lateral outflow over rectangular side weirs located on a straight channel. Advances in Engineering Software, 2010, 41, 831-837.	3.8	82
95	Modelling of chemical oxygen demand by using ANNs, ANFIS and k-means clustering techniques. Journal of Hydrology, 2014, 511, 279-289.	5.4	82
96	The potential of hybrid evolutionary fuzzy intelligence model for suspended sediment concentration prediction. Catena, 2019, 174, 11-23.	5.0	82
97	Prediction of solar radiation in China using different adaptive neuroâ€fuzzy methods and <scp>M5</scp> model tree. International Journal of Climatology, 2017, 37, 1141-1155.	3.5	80
98	Evaluation of peak and residual conditions of actively confined concrete using neuro-fuzzy and neural computing techniques. Neural Computing and Applications, 2018, 29, 873-888.	5.6	80
99	Lake Level Forecasting Using Wavelet-SVR, Wavelet-ANFIS and Wavelet-ARMA Conjunction Models. Water Resources Management, 2016, 30, 79-97.	3.9	79
100	Modeling soil temperatures at different depths by using three different neural computing techniques. Theoretical and Applied Climatology, 2015, 121, 377-387.	2.8	78
101	Pan Evaporation Modeling Using Neural Computing Approach for Different Climatic Zones. Water Resources Management, 2012, 26, 3231-3249.	3.9	77
102	On the applicability of maximum overlap discrete wavelet transform integrated with MARS and M5 model tree for monthly pan evaporation prediction. Agricultural and Forest Meteorology, 2019, 278, 107647.	4.8	77
103	River suspended sediment concentration modeling using a neural differential evolution approach. Journal of Hydrology, 2010, 389, 227-235.	5.4	76
104	Comparison of three artificial intelligence techniques for discharge routing. Journal of Hydrology, 2011, 403, 201-212.	5.4	76
105	Performance of radial basis and LM-feed forward artificial neural networks for predicting daily watershed runoff. Applied Soft Computing Journal, 2013, 13, 4633-4644.	7.2	76
106	Daily pan evaporation modelling using multiâ€layer perceptrons and radial basis neural networks. Hydrological Processes, 2009, 23, 213-223.	2.6	75
107	Modeling of Dissolved Oxygen Concentration Using Different Neural Network Techniques in Foundation Creek, El Paso County, Colorado. Journal of Environmental Engineering, ASCE, 2012, 138, 654-662.	1.4	74
108	Wavelet neural networks and gene expression programming models to predict short-term soil temperature at different depths. Soil and Tillage Research, 2018, 175, 37-50.	5.6	74

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109	River suspended sediment modelling using a fuzzy logic approach. Hydrological Processes, 2006, 20, 4351-4362.	2.6	73
110	Application of Artificial Intelligence to Estimate Daily Pan Evaporation Using Available and Estimated Climatic Data in the Khozestan Province (South Western Iran). Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 412-425.	1.0	73
111	Modeling dischargeâ€“sediment relationship using neural networks with artificial bee colony algorithm. Journal of Hydrology, 2012, 428-429, 94-103.	5.4	73
112	Estimating Daily Pan Evaporation Using Different Data-Driven Methods and Lag-Time Patterns. Water Resources Management, 2013, 27, 2267-2286.	3.9	73
113	Spatial-temporal trend analysis of seasonal and annual rainfall (1966â€“2015) using innovative trend analysis method with significance test. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	72
114	River suspended sediment load prediction based on river discharge information: application of newly developed data mining models. Hydrological Sciences Journal, 2020, 65, 624-637.	2.6	72
115	Wavelet Regression Model as an Alternative to Neural Networks for River Stage Forecasting. Water Resources Management, 2011, 25, 579-600.	3.9	71
116	Streamflow Forecasting and Estimation Using Least Square Support Vector Regression and Adaptive Neuro-Fuzzy Embedded Fuzzy c-means Clustering. Water Resources Management, 2015, 29, 5109-5127.	3.9	71
117	Modeling solar radiation of Mediterranean region in Turkey by using fuzzy genetic approach. Energy, 2014, 64, 429-436.	8.8	70
118	The implementation of univariable scheme-based air temperature for solar radiation prediction: New development of dynamic evolving neural-fuzzy inference system model. Applied Energy, 2019, 241, 184-195.	10.1	70
119	Modelling reference evapotranspiration by combining neuro-fuzzy and evolutionary strategies. Acta Geophysica, 2020, 68, 1113-1126.	2.0	69
120	Neural networks for estimation of discharge capacity of triangular labyrinth side-weir located on a straight channel. Expert Systems With Applications, 2011, 38, 867-874.	7.6	68
121	Estimating daily reference evapotranspiration using available and estimated climatic data by adaptive neuro-fuzzy inference system (ANFIS) and artificial neural network (ANN). Hydrology Research, 2013, 44, 131-146.	2.7	67
122	Daily pan evaporation modeling using chi-squared automatic interaction detector, neural networks, classification and regression tree. Computers and Electronics in Agriculture, 2016, 122, 112-117.	7.7	67
123	Monthly pan-evaporation estimation in Indian central Himalayas using different heuristic approaches and climate based models. Computers and Electronics in Agriculture, 2017, 143, 302-313.	7.7	67
124	Predicting discharge capacity of triangular labyrinth side weir located on a straight channel by using an adaptive neuro-fuzzy technique. Advances in Engineering Software, 2010, 41, 154-160.	3.8	66
125	Evaporation modelling using different machine learning techniques. International Journal of Climatology, 2017, 37, 1076-1092.	3.5	66
126	Modelling long-term groundwater fluctuations by extreme learning machine using hydro-climatic data. Hydrological Sciences Journal, 2018, 63, 63-73.	2.6	65

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127	Evapotranspiration estimation using feed-forward neural networks. Hydrology Research, 2006, 37, 247-260.	2.7	64
128	Flood Hazard Mapping by Using Geographic Information System and Hydraulic Model: Mert River, Samsun, Turkey. Advances in Meteorology, 2016, 2016, 1-9.	1.6	64
129	Prediction of Water-Level in the Urmia Lake Using the Extreme Learning Machine Approach. Water Resources Management, 2016, 30, 5217-5229.	3.9	64
130	Modeling Groundwater Quality Parameters Using Hybrid Neuro-Fuzzy Methods. Water Resources Management, 2019, 33, 847-861.	3.9	64
131	Humanâ€“Environment Natural Disasters Interconnection in China: A Review. Climate, 2020, 8, 48.	2.8	64
132	Constructing neural network sediment estimation models using a data-driven algorithm. Mathematics and Computers in Simulation, 2008, 79, 94-103.	4.4	63
133	Modeling of air pollutants using least square support vector regression, multivariate adaptive regression spline, and M5 model tree models. Air Quality, Atmosphere and Health, 2017, 10, 873-883.	3.3	63
134	A new intelligent method for monthly streamflow prediction: hybrid wavelet support vector regression based on grey wolf optimizer (WSVRâ€“GWO). Arabian Journal of Geosciences, 2019, 12, 1.	1.3	63
135	Soil temperature modeling at different depths using neuro-fuzzy, neural network, and genetic programming techniques. Theoretical and Applied Climatology, 2017, 129, 833-848.	2.8	62
136	Pan evaporation modeling using four different heuristic approaches. Computers and Electronics in Agriculture, 2017, 140, 203-213.	7.7	62
137	Survey of different data-intelligent modeling strategies for forecasting air temperature using geographic information as model predictors. Computers and Electronics in Agriculture, 2018, 152, 242-260.	7.7	62
138	Incorporating synoptic-scale climate signals for streamflow modelling over the Mediterranean region using machine learning models. Hydrological Sciences Journal, 2019, 64, 1240-1252.	2.6	62
139	Prediction of debonding strength for masonry elements retrofitted with FRP composites using neuro fuzzy and neural network approaches. Composites Part B: Engineering, 2015, 70, 247-255.	12.0	61
140	Dissolved oxygen prediction using a new ensemble method. Environmental Science and Pollution Research, 2020, 27, 9589-9603.	5.3	61
141	Modeling monthly evaporation using two different neural computing techniques. Irrigation Science, 2009, 27, 417-430.	2.8	60
142	Comparison of Two Different Adaptive Neuro-Fuzzy Inference Systems in Modelling Daily Reference Evapotranspiration. Water Resources Management, 2014, 28, 2655-2675.	3.9	60
143	A New Approach for Modeling Sediment-Discharge Relationship: Local Weighted Linear Regression. Water Resources Management, 2017, 31, 1-23.	3.9	60
144	Pan evaporation modeling by three different neuro-fuzzy intelligent systems using climatic inputs. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	60

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145	Estimating reference evapotranspiration using hybrid adaptive fuzzy inferencing coupled with heuristic algorithms. Computers and Electronics in Agriculture, 2021, 191, 106541.	7.7	60
146	Prediction of lateral outflow over triangular labyrinth side weirs under subcritical conditions using soft computing approaches. Expert Systems With Applications, 2012, 39, 3454-3460.	7.6	59
147	Modelling solar radiation reached to the Earth using ANFIS, NN-ARX, and empirical models (Case) Tj ETQq1 1 0.784314 rgBT /Overlock 123, 39-47.	1.6	59
148	A nonlinear mathematical modeling of daily pan evaporation based on conjugate gradient method. Computers and Electronics in Agriculture, 2016, 127, 120-130.	7.7	59
149	Advanced machine learning model for better prediction accuracy of soil temperature at different depths. PLoS ONE, 2020, 15, e0231055.	2.5	59
150	Neural networks with artificial bee colony algorithm for modeling daily reference evapotranspiration. Irrigation Science, 2011, 29, 431-441.	2.8	58
151	Use of artificial neural networks for prediction of discharge coefficient of triangular labyrinth side weir in curved channels. Advances in Engineering Software, 2011, 42, 208-214.	3.8	58
152	M5 model tree and Monte Carlo simulation for efficient structural reliability analysis. Applied Mathematical Modelling, 2017, 48, 899-910.	4.2	58
153	Comparison of three different bio-inspired algorithms to improve ability of neuro fuzzy approach in prediction of agricultural drought, based on three different indexes. Computers and Electronics in Agriculture, 2020, 170, 105279.	7.7	58
154	Short term rainfall-runoff modelling using several machine learning methods and a conceptual event-based model. Stochastic Environmental Research and Risk Assessment, 2021, 35, 597-616.	4.0	58
155	Wave height predictions in complex sea flows through soft-computing models: Case study of Persian Gulf. Ocean Engineering, 2022, 245, 110467.	4.3	58
156	Evaluation of several soft computing methods in monthly evapotranspiration modelling. Meteorological Applications, 2018, 25, 128-138.	2.1	57
157	Estimation of Daily Pan Evaporation Using Two Different Adaptive Neuro-Fuzzy Computing Techniques. Water Resources Management, 2012, 26, 4347-4365.	3.9	56
158	Prediction of longâ€term monthly precipitation using several soft computing methods without climatic data. International Journal of Climatology, 2015, 35, 4139-4150.	3.5	56
159	New formulation for forecasting streamflow: evolutionary polynomial regression vs. extreme learning machine. Hydrology Research, 2018, 49, 939-953.	2.7	56
160	Zoning map for drought prediction using integrated machine learning models with a nomadic people optimization algorithm. Natural Hazards, 2020, 104, 537-579.	3.4	56
161	A comprehensive comparison of recent developed meta-heuristic algorithms for streamflow time series forecasting problem. Applied Soft Computing Journal, 2021, 105, 107282.	7.2	56
162	Prediction of long-term monthly air temperature using geographical inputs. International Journal of Climatology, 2014, 34, 179-186.	3.5	55

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163	RM5Tree: Radial basis M5 model tree for accurate structural reliability analysis. Reliability Engineering and System Safety, 2018, 180, 49-61.	8.9	54
164	Implementation of evolutionary computing models for reference evapotranspiration modeling: short review, assessment and possible future research directions. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 811-823.	3.1	54
165	Modelling daily suspended sediment of rivers in Turkey using several data-driven techniques / ModÃ©lisation de la charge journaliÃ¨re en matiÃ¨res en suspension dans des riviÃ¨res turques Ã l'aide de plusieurs techniques empiriques. Hydrological Sciences Journal, 2008, 53, 1270-1285.	2.6	53
166	Wavelet regression model as an alternative to neural networks for monthly streamflow forecasting. Hydrological Processes, 2009, 23, 3583-3597.	2.6	53
167	Abutment scour depth modeling using neuro-fuzzy-embedded techniques. Marine Georesources and Geotechnology, 2019, 37, 190-200.	2.1	53
168	Global cross-station assessment of neuro-fuzzy models for estimating daily reference evapotranspiration. Journal of Hydrology, 2013, 480, 46-57.	5.4	52
169	Modeling river water quality parameters using modified adaptive neuro fuzzy inference system. Water Science and Engineering, 2019, 12, 45-54.	3.2	52
170	Modeling groundwater fluctuations by three different evolutionary neural network techniques using hydroclimatic data. Natural Hazards, 2017, 87, 367-381.	3.4	51
171	Trend analysis of rainfall pattern over the Central India during 1901â€“2010. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	51
172	An improved model based on the support vector machine and cuckoo algorithm for simulating reference evapotranspiration. PLoS ONE, 2019, 14, e0217499.	2.5	51
173	Evapotranspiration Modeling Using Linear Genetic Programming Technique. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 715-723.	1.0	50
174	Performance Evaluation of ANN and ANFIS Models for Estimating Garlic Crop Evapotranspiration. Journal of Irrigation and Drainage Engineering - ASCE, 2011, 137, 280-286.	1.0	50
175	Wavelet and neuro-fuzzy conjunction model for predicting water table depth fluctuations. Hydrology Research, 2012, 43, 286-300.	2.7	50
176	Daily global solar radiation modeling using data-driven techniques and empirical equations in a semi-arid climate. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 142-157.	3.1	50
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