List of Publications by Year
in descending order

473 papers	21,578 citations	8172 76 h-index	24232 110 g-index
531 all docs	531 docs citations	531 times ranked	16478 citing authors

#	Article	IF	Citations
1	A systematic literature review on agile requirements engineering practices and challenges. Computers in Human Behavior, 2015, 51, 915-929.	5.1	347
2	State of the Art of Machine Learning Models in Energy Systems, a Systematic Review. Energies, 2019, 12, 1301.	1.6	319
3	A Deep Learning Ensemble Approach for Diabetic Retinopathy Detection. IEEE Access, 2019, 7, 150530-150539.	2.6	311
4	A support vector machine–firefly algorithm-based model for global solar radiation prediction. Solar Energy, 2015, 115, 632-644.	2.9	295
5	Survey of computational intelligence as basis to big flood management: challenges, research directions and future work. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 411-437.	1.5	255
6	Coupling a firefly algorithm with support vector regression to predict evaporation in northern Iran. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 584-597.	1.5	242
7	Sustainable Business Models: A Review. Sustainability, 2019, 11, 1663.	1.6	234
8	Survey of main challenges (security and privacy) in wireless body area networks for healthcare applications. Egyptian Informatics Journal, 2017, 18, 113-122.	4.4	233
9	A new hybrid support vector machine–wavelet transform approach for estimation of horizontal global solar radiation. Energy Conversion and Management, 2015, 92, 162-171.	4.4	227
10	Flash-flood hazard assessment using ensembles and Bayesian-based machine learning models: Application of the simulated annealing feature selection method. Science of the Total Environment, 2020, 711, 135161.	3.9	215
11	A Survey of Deep Learning Techniques: Application in Wind and Solar Energy Resources. IEEE Access, 2019, 7, 164650-164666.	2.6	210
12	Application of extreme learning machine for short term output power forecasting of three grid-connected PV systems. Journal of Cleaner Production, 2017, 167, 395-405.	4.6	191
13	Adaptive neuro-fuzzy maximal power extraction of wind turbine withÂcontinuously variable transmission. Energy, 2014, 64, 868-874.	4.5	190
14	A survey on indexing techniques for big data: taxonomy and performance evaluation. Knowledge and Information Systems, 2016, 46, 241-284.	2.1	187
15	Computational Intelligence Approaches for Energy Load Forecasting in Smart Energy Management Grids: State of the Art, Future Challenges, and Research Directions. Energies, 2018, 11, 596.	1.6	178
16	Support vector regression based prediction of global solar radiation on a horizontal surface. Energy Conversion and Management, 2015, 91, 433-441.	4.4	173
17	Predicting Standardized Streamflow index for hydrological drought using machine learning models. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 339-350.	1.5	171
18	Comparative Analysis of Recurrent Neural Network Architectures for Reservoir Inflow Forecasting. Water (Switzerland), 2020, 12, 1500.	1.2	157

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19	Copy-move forgery detection: Survey, challenges and future directions. Journal of Network and Computer Applications, 2016, 75, 259-278.	5.8	155
20	Integrated machine learning methods with resampling algorithms for flood susceptibility prediction. Science of the Total Environment, 2020, 705, 135983.	3.9	155
21	Computational intelligence approach for modeling hydrogen production: a review. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 438-458.	1.5	154
22	A survey of big data management: Taxonomy and state-of-the-art. Journal of Network and Computer Applications, 2016, 71, 151-166.	5.8	153
23	Estimating building energy consumption using extreme learning machine method. Energy, 2016, 97, 506-516.	4.5	153
24	Ensemble models with uncertainty analysis for multi-day ahead forecasting of chlorophyll *a* concentration in coastal waters. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 91-101.	1.5	153
25	Prediction of Hydropower Generation Using Grey Wolf Optimization Adaptive Neuro-Fuzzy Inference System. Energies, 2019, 12, 289.	1.6	151
26	Adaptive neuro-fuzzy approach for solar radiation prediction in Nigeria. Renewable and Sustainable Energy Reviews, 2015, 51, 1784-1791.	8.2	141
27	Cooperative game theoretic approach using fuzzy Q-learning for detecting and preventing intrusions in wireless sensor networks. Engineering Applications of Artificial Intelligence, 2014, 32, 228-241.	4.3	139
28	Potential of radial basis function based support vector regression for global solar radiation prediction. Renewable and Sustainable Energy Reviews, 2014, 39, 1005-1011.	8.2	139
29	Soft computing approaches for forecasting reference evapotranspiration. Computers and Electronics in Agriculture, 2015, 113, 164-173.	3.7	139
30	Experimental and computational fluid dynamics-based numerical simulation of using natural gas in a dual-fueled diesel engine. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 517-534.	1.5	120
31	Flash Flood Susceptibility Modeling Using New Approaches of Hybrid and Ensemble Tree-Based Machine Learning Algorithms. Remote Sensing, 2020, 12, 3568.	1.8	118
32	Performance investigation of micro- and nano-sized particle erosion in a 90° elbow using an ANFIS model. Powder Technology, 2015, 284, 336-343.	2.1	117
33	Sustainable Cloud Data Centers: A survey of enabling techniques and technologies. Renewable and Sustainable Energy Reviews, 2016, 62, 195-214.	8.2	114
34	Support vector regression methodology for wind turbine reaction torque prediction with power-split hydrostatic continuous variable transmission. Energy, 2014, 67, 623-630.	4.5	113
35	Effect of river flow on the quality of estuarine and coastal waters using machine learning models. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 810-823.	1.5	113
36	A comparative evaluation for identifying the suitability of extreme learning machine to predict horizontal global solar radiation. Renewable and Sustainable Energy Reviews, 2015, 52, 1031-1042.	8.2	112

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37	Wind speed prediction using a hybrid model of the multi-layer perceptron and whale optimization algorithm. Energy Reports, 2020, 6, 1147-1159.	2.5	112
38	An appraisal and design of a multi-agent system based cooperative wireless intrusion detection computational intelligence technique. Engineering Applications of Artificial Intelligence, 2013, 26, 2105-2127.	4.3	109
39	Application of firefly algorithm-based support vector machines for prediction of field capacity and permanent wilting point. Soil and Tillage Research, 2017, 172, 32-38.	2.6	106
40	Novel Ensemble Approach of Deep Learning Neural Network (DLNN) Model and Particle Swarm Optimization (PSO) Algorithm for Prediction of Gully Erosion Susceptibility. Sensors, 2020, 20, 5609.	2.1	106
41	Extreme learning machine for prediction of heat load in district heating systems. Energy and Buildings, 2016, 122, 222-227.	3.1	105
42	Daily global solar radiation prediction from air temperatures using kernel extreme learning machine: A case study for Iran. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 134, 109-117.	0.6	104
43	Snow avalanche hazard prediction using machine learning methods. Journal of Hydrology, 2019, 577, 123929.	2.3	104
44	Groundwater Quality Assessment for Sustainable Drinking and Irrigation. Sustainability, 2020, 12, 177.	1.6	104
45	Principal component analysis to study the relations between the spread rates of COVID-19 in high risks countries. AEJ - Alexandria Engineering Journal, 2021, 60, 457-464.	3.4	104
46	Potential of adaptive neuro-fuzzy system for prediction of daily global solar radiation by day of the year. Energy Conversion and Management, 2015, 93, 406-413.	4.4	103
47	Prediction of heat load in district heating systems by Support Vector Machine with Firefly searching algorithm. Energy, 2016, 95, 266-273.	4.5	103
48	Extreme learning machine based prediction of daily dew point temperature. Computers and Electronics in Agriculture, 2015, 117, 214-225.	3.7	102
49	Forecasting pan evaporation with an integrated artificial neural network quantum-behaved particle swarm optimization model: a case study in Talesh, Northern Iran. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 724-737.	1.5	102
50	AI-empowered, blockchain and SDN integrated security architecture for IoT network of cyber physical systems. Computer Communications, 2022, 181, 274-283.	3.1	102
51	Modeling Pan Evaporation Using Gaussian Process Regression K-Nearest Neighbors Random Forest and Support Vector Machines; Comparative Analysis. Atmosphere, 2020, 11, 66.	1.0	101
52	Potential of radial basis function-based support vector regression for apple disease detection. Measurement: Journal of the International Measurement Confederation, 2014, 55, 512-519.	2.5	100
53	Application of ANNs, ANFIS and RSM to estimating and optimizing the parameters that affect the yield and cost of biodiesel production. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 611-624.	1.5	98
54	Numerical simulation of nanofluid flow inside a root canal. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 254-264.	1.5	98

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55	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.	1.4	95
56	D-FICCA: A density-based fuzzy imperialist competitive clustering algorithm for intrusion detection in wireless sensor networks. Measurement: Journal of the International Measurement Confederation, 2014, 55, 212-226.	2.5	94
57	Estimating the diffuse solar radiation using a coupled support vector machine–wavelet transform model. Renewable and Sustainable Energy Reviews, 2016, 56, 428-435.	8.2	94
58	A Hybrid clustering and classification technique for forecasting short-term energy consumption. Environmental Progress and Sustainable Energy, 2019, 38, 66-76.	1.3	94
59	Spatial hazard assessment of the PM10 using machine learning models in Barcelona, Spain. Science of the Total Environment, 2020, 701, 134474.	3.9	91
60	A New Online Learned Interval Type-3 Fuzzy Control System for Solar Energy Management Systems. IEEE Access, 2021, 9, 10498-10508.	2.6	91
61	Computational intelligence approaches for classification of medical data: State-of-the-art, future challenges and research directions. Neurocomputing, 2018, 276, 2-22.	3.5	90
62	Using self-adaptive evolutionary algorithm to improve the performance of an extreme learning machine for estimating soil temperature. Computers and Electronics in Agriculture, 2016, 124, 150-160.	3.7	89
63	Evaluating the wind energy potential for hydrogen production: A case study. International Journal of Hydrogen Energy, 2016, 41, 6200-6210.	3.8	89
64	Comparison of experimental data, modelling and non-linear regression on transport properties of mineral oil based nanofluids. Powder Technology, 2017, 317, 458-470.	2.1	89
65	Prediction of multi-inputs bubble column reactor using a novel hybrid model of computational fluid dynamics and machine learning. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 482-492.	1.5	89
66	Coronary Artery Disease Diagnosis; Ranking the Significant Features Using a Random Trees Model. International Journal of Environmental Research and Public Health, 2020, 17, 731.	1.2	89
67	Co-FAIS: Cooperative fuzzy artificial immune system for detecting intrusion in wireless sensor networks. Journal of Network and Computer Applications, 2014, 42, 102-117.	5.8	88
68	Computational Intelligence on Short-Term Load Forecasting: A Methodological Overview. Energies, 2019, 12, 393.	1.6	88
69	Sugarcane growth prediction based on meteorological parameters using extreme learning machine and artificial neural network. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 738-749.	1.5	87
70	Comprehensive Review of Deep Reinforcement Learning Methods and Applications in Economics. Mathematics, 2020, 8, 1640.	1.1	87
71	SmartBlock-SDN: An Optimized Blockchain-SDN Framework for Resource Management in IoT. IEEE Access, 2021, 9, 28361-28376.	2.6	87
72	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.	1.5	86

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73	Forecasting of consumers heat load in district heating systems using the support vector machine with a discrete wavelet transform algorithm. Energy, 2015, 87, 343-351.	4.5	83
74	Data Science in Economics: Comprehensive Review of Advanced Machine Learning and Deep Learning Methods. Mathematics, 2020, 8, 1799.	1.1	82
75	Earth fissure hazard prediction using machine learning models. Environmental Research, 2019, 179, 108770.	3.7	81
76	Sensor Data Fusion by Support Vector Regression Methodologyâ€"A Comparative Study. IEEE Sensors Journal, 2015, 15, 850-854.	2.4	80
77	Incremental proxy re-encryption scheme for mobile cloud computing environment. Journal of Supercomputing, 2014, 68, 624-651.	2.4	79
78	A review of quadrotor UAV: control methodologies and performance evaluation. International Journal of Automation and Control, 2016, 10, 87.	0.3	77
79	Comparative analysis of reference evapotranspiration equations modelling by extreme learning machine. Computers and Electronics in Agriculture, 2016, 127, 56-63.	3.7	76
80	A combination of computational fluid dynamics (CFD) and adaptive neuro-fuzzy system (ANFIS) for prediction of the bubble column hydrodynamics. Powder Technology, 2015, 274, 466-481.	2.1	75
81	Identifying the most significant input parameters for predicting global solar radiation using an ANFIS selection procedure. Renewable and Sustainable Energy Reviews, 2016, 63, 423-434.	8.2	75
82	Predicting solubility of CO_2 in brine by advanced machine learning systems: Application to carbon capture and sequestration. Journal of CO2 Utilization, 2019, 33, 83-95.	3.3	75
83	Evaluation of electrical efficiency of photovoltaic thermal solar collector. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 545-565.	1.5	75
84	Predicting the wind power density based upon extreme learningÂmachine. Energy, 2015, 86, 232-239.	4.5	73
85	Estimating Daily Dew Point Temperature Using Machine Learning Algorithms. Water (Switzerland), 2019, 11, 582.	1.2	73
86	Applications of computational intelligence in vehicle traffic congestion problem: a survey. Soft Computing, 2018, 22, 2299-2320.	2.1	72
87	Investigation of submerged structuresâ€™ flexibility on sloshing frequency using a boundary element method and finite element analysis. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 519-528.	1.5	71
88	Aeromechanical optimization of first row compressor test stand blades using a hybrid machine learning model of genetic algorithm, artificial neural networks and design of experiments. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 892-904.	1.5	71
89	Hybrid ANFISâ€"PSO approach for predicting optimum parameters of a protective spur dike. Applied Soft Computing Journal, 2015, 30, 642-649.	4.1	70
90	A bibliometric approach to tracking big data research trends. Journal of Big Data, 2017, 4, .	6.9	70

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91	Securing IoT-Based RFID Systems: A Robust Authentication Protocol Using Symmetric Cryptography. Sensors, 2019, 19, 4752.	2.1	70
92	A Novel Fractional-Order Multiple-Model Type-3 Fuzzy Control for Nonlinear Systems with Unmodeled Dynamics. International Journal of Fuzzy Systems, 2021, 23, 1633-1651.	2.3	70
93	Deep learned recurrent type-3 fuzzy system: Application for renewable energy modeling/prediction. Energy Reports, 2021, 7, 8115-8127.	2.5	70
94	Computational intelligence intrusion detection techniques in mobile cloud computing environments: Review, taxonomy, and open research issues. Journal of Information Security and Applications, 2020, 55, 102582.	1.8	69
95	Prediction of significant wave height; comparison between nested grid numerical model, and machine learning models of artificial neural networks, extreme learning and support vector machines. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 805-817.	1.5	69
96	Surface roughness prediction by extreme learning machine constructed with abrasive water jet. Precision Engineering, 2016, 43, 86-92.	1.8	68
97	An Intelligent Artificial Neural Network-Response Surface Methodology Method for Accessing the Optimum Biodiesel and Diesel Fuel Blending Conditions in a Diesel Engine from the Viewpoint of Exergy and Energy Analysis. Energies, 2018, 11, 860.	1.6	68
98	Prediction of the solar radiation on the Earth using support vector regression technique. Infrared Physics and Technology, 2015, 68, 179-185.	1.3	67
99	Prediction of remaining service life of pavement using an optimized support vector machine (case) Tj ETQq1 1 0.784314 rgBT /Overlo 188-198.	1.5	67
100	Decreasing environmental impacts of cropping systems using life cycle assessment (LCA) and multi-objective genetic algorithm. Journal of Cleaner Production, 2015, 86, 67-77.	4.6	66
101	Estimating longitudinal dispersion coefficient in natural streams using empirical models and machine learning algorithms. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 311-322.	1.5	66
102	Prediction of Water-Level in the Urmia Lake Using the Extreme Learning Machine Approach. Water Resources Management, 2016, 30, 5217-5229.	1.9	64
103	Streamflow regionalization using a similarity approach in ungauged basins: Application of the geo-environmental signatures in the Karkheh River Basin, Iran. Catena, 2019, 182, 104128.	2.2	64
104	Prediction of landslide susceptibility in Rudraprayag, India using novel ensemble of conditional probability and boosted regression tree-based on cross-validation method. Science of the Total Environment, 2021, 764, 142928.	3.9	64
105	Determining the most important variables for diffuse solar radiation prediction using adaptive neuro-fuzzy methodology; case study: City of Kerman, Iran. Renewable and Sustainable Energy Reviews, 2016, 53, 1570-1579.	8.2	63
106	Heat load prediction in district heating systems with adaptive neuro-fuzzy method. Renewable and Sustainable Energy Reviews, 2015, 48, 760-767.	8.2	62
107	An appraisal of wind speed distribution prediction by soft computing methodologies: A comparative study. Energy Conversion and Management, 2014, 84, 133-139.	4.4	60
108	Determination of the most influential weather parameters on reference evapotranspiration by adaptive neuro-fuzzy methodology. Computers and Electronics in Agriculture, 2015, 114, 277-284.	3.7	60

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109	Extreme learning machine assessment for estimating sediment transport in open channels. Engineering With Computers, 2016, 32, 691-704.	3.5	60
110	SDN–IoT empowered intelligent framework for industry 4.0 applications during COVID-19 pandemic. Cluster Computing, 2022, 25, 2351-2368.	3.5	60
111	Modeling energy consumption and greenhouse gas emissions for kiwifruit production using artificial neural networks. Journal of Cleaner Production, 2016, 133, 924-931.	4.6	59
112	Support Vector Regression Integrated with Fruit Fly Optimization Algorithm for River Flow Forecasting in Lake Urmia Basin. Water (Switzerland), 2019, 11, 1934.	1.2	59
113	River flow prediction using hybrid PSOGSA algorithm based on feed-forward neural network. Soft Computing, 2019, 23, 10429-10438.	2.1	59
114	Ensemble of Machine-Learning Methods for Predicting Gully Erosion Susceptibility. Remote Sensing, 2020, 12, 3675.	1.8	59
115	A New K-Nearest Neighbors Classifier for Big Data Based on Efficient Data Pruning. Mathematics, 2020, 8, 286.	1.1	59
116	Development of a new type of passively adaptive compliant gripper. Industrial Robot, 2013, 40, 610-623.	1.2	58
117	Identification and prioritization of critical issues for the promotion of e-learning in Pakistan. Computers in Human Behavior, 2015, 51, 161-171.	5.1	58
118	Flutter speed estimation using presented differential quadrature method formulation. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 804-810.	1.5	58
119	Improving the spatial prediction of soil salinity in arid regions using wavelet transformation and support vector regression models. Geoderma, 2021, 383, 114793.	2.3	58
120	The use of ELM-WT (extreme learning machine with wavelet transform algorithm) to predict exergetic performance of a DI diesel engine running on diesel/biodiesel blends containing polymer waste. Energy, 2016, 94, 443-456.	4.5	56
121	Implementation of Artificial Intelligence Based Ensemble Models for Gully Erosion Susceptibility Assessment. Remote Sensing, 2020, 12, 3620.	1.8	56
122	Using the gravitational emulation local search algorithm to solve the multi-objective flexible dynamic job shop scheduling problem in Small and Medium Enterprises. Annals of Operations Research, 2015, 229, 451-474.	2.6	55
123	Incorporating multi-criteria decision-making and fuzzy-value functions for flood susceptibility assessment. Geocarto International, 2021, 36, 2345-2365.	1.7	55
124	Short-Term Hydrological Drought Forecasting Based on Different Nature-Inspired Optimization Algorithms Hybridized With Artificial Neural Networks. IEEE Access, 2020, 8, 15210-15222.	2.6	55
125	Extreme learning machine approach for sensorless wind speed estimation. Mechatronics, 2016, 34, 78-83.	2.0	54
126	Support vector machine-based exergetic modelling of a DI diesel engine running on biodiesel–diesel blends containing expanded polystyrene. Applied Thermal Engineering, 2016, 94, 727-747.	3.0	54

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127	A systematic review of approaches to assessing cybersecurity awareness. Kybernetes, 2015, 44, 606-622.	1.2	53
128	Adaptive control algorithm of flexible robotic gripper by extreme learning machine. Robotics and Computer-Integrated Manufacturing, 2016, 37, 170-178.	6.1	53
129	A Novel Detection Algorithm to Identify False Data Injection Attacks on Power System State Estimation. Energies, 2019, 12, 2209.	1.6	53
130	BSS: block-based sharing scheme for secure data storage services in mobile cloud environment. Journal of Supercomputing, 2014, 70, 946-976.	2.4	52
131	Transport and retention of engineered Al_2O_3, TiO_2 and SiO_2 nanoparticles through various sedimentary rocks. Scientific Reports, 2015, 5, 14264.	1.6	52
132	Software-Defined Cloud Computing: A Systematic Review on Latest Trends and Developments. IEEE Access, 2019, 7, 93294-93314.	2.6	52
133	Blockchain-SDN-Based Energy-Aware and Distributed Secure Architecture for IoT in Smart Cities. IEEE Internet of Things Journal, 2022, 9, 3850-3864.	5.5	52
134	Forecast of rainfall distribution based on fixed sliding window long short-term memory. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 248-261.	1.5	52
135	Rigorous prognostication of natural gas viscosity: Smart modeling and comparative study. Fuel, 2018, 222, 766-778.	3.4	51
136	Modeling temperature-based oil-water relative permeability by integrating advanced intelligent models with grey wolf optimization: Application to thermal enhanced oil recovery processes. Fuel, 2019, 242, 649-663.	3.4	51
137	Appraisal of the support vector machine to forecast residential heating demand for the District Heating System based on the monthly overall natural gas consumption. Energy, 2015, 93, 1558-1567.	4.5	50
138	Application of adaptive neuro-fuzzy methodology for estimating building energy consumption. Renewable and Sustainable Energy Reviews, 2016, 53, 1520-1528.	8.2	50
139	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.	1.5	50
140	A multi-objective evolutionary algorithm for energy management of agricultural systemsâ€"A case study in Iran. Renewable and Sustainable Energy Reviews, 2015, 44, 457-465.	8.2	49
141	Design and state of art of innovative wind turbine systems. Renewable and Sustainable Energy Reviews, 2016, 61, 258-265.	8.2	49
142	Evaluation of wind power generation potential using a three hybrid approach for households in Ardebil Province, Iran. Energy Conversion and Management, 2016, 118, 295-305.	4.4	49
143	A Novel Method to Water Level Prediction using RBF and FFA. Water Resources Management, 2016, 30, 3265-3283.	1.9	48
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145	Comparative analysis of kernel-based versus ANN and deep learning methods in monthly reference evapotranspiration estimation. Hydrology and Earth System Sciences, 2021, 25, 603-618.	1.9	48
146	Application of Taguchi method and response surface methodology into the removal of malachite green and auramine-O by NaX nanozeolites. Scientific Reports, 2021, 11, 16054.	1.6	48
147	A combined support vector machine-wavelet transform model for prediction of sediment transport in sewer. Flow Measurement and Instrumentation, 2016, 47, 19-27.	1.0	47
148	Modeling interfacial tension in N2/n-alkane systems using corresponding state theory: Application to gas injection processes. Fuel, 2018, 222, 779-791.	3.4	46
149	Computer-aided decision-making for predicting liver disease using PSO-based optimized SVM with feature selection. Informatics in Medicine Unlocked, 2019, 17, 100255.	1.9	46
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151	Long-Term Precipitation Analysis and Estimation of Precipitation Concentration Index Using Three Support Vector Machine Methods. Advances in Meteorology, 2016, 2016, 1-11.	0.6	45
152	Resource management in cropping systems using artificial intelligence techniques: a case study of orange orchards in north of Iran. Stochastic Environmental Research and Risk Assessment, 2016, 30, 413-427.	1.9	45
153	Developing an ANFIS-PSO Model to Predict Mercury Emissions in Combustion Flue Gases. Mathematics, 2019, 7, 965.	1.1	45
154	Fractional-Order Fuzzy Control Approach for Photovoltaic/Battery Systems under Unknown Dynamics, Variable Irradiation and Temperature. Electronics (Switzerland), 2020, 9, 1455.	1.8	45
155	Decoding clinical biomarker space of COVID-19: Exploring matrix factorization-based feature selection methods. Computers in Biology and Medicine, 2022, 146, 105426.	3.9	45
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159	Comparative Analysis of Artificial Intelligence Models for Accurate Estimation of Groundwater Nitrate Concentration. Sensors, 2020, 20, 5763.	2.1	44
160	Application of multiple linear regression, central composite design, and ANFIS models in dye concentration measurement and prediction using plastic optical fiber sensor. Measurement: Journal of the International Measurement Confederation, 2015, 74, 78-86.	2.5	43
161	Using ANFIS for selection of more relevant parameters to predict dew point temperature. Applied Thermal Engineering, 2016, 96, 311-319.	3.0	43
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163	A review of mobile pervasive learning: Applications and issues. Computers in Human Behavior, 2015, 46, 239-244.	5.1	42
164	Resilient modulus prediction of asphalt mixtures containing Recycled Concrete Aggregate using an adaptive neuro-fuzzy methodology. Construction and Building Materials, 2015, 82, 257-263.	3.2	42
165	Estimation of Reference Evapotranspiration Using Neural Networks and Cuckoo Search Algorithm. Journal of Irrigation and Drainage Engineering - ASCE, 2016, 142, .	0.6	42
166	Particle swarm optimization-based radial basis function network for estimation of reference evapotranspiration. Theoretical and Applied Climatology, 2016, 125, 555-563.	1.3	42
167	The Rise of Internet of Things (IoT) in Big Healthcare Data: Review and Open Research Issues. Advances in Intelligent Systems and Computing, 2018, , 675-685.	0.5	42
168	Training Multilayer Perceptron with Genetic Algorithms and Particle Swarm Optimization for Modeling Stock Price Index Prediction. Entropy, 2020, 22, 1239.	1.1	42
169	TiO2 nanotube coating on stainless steel 304 for biomedical applications. Ceramics International, 2015, 41, 2785-2793.	2.3	41
170	Using SVM-RSM and ELM-RSM Approaches for Optimizing the Production Process of Methyl and Ethyl Esters. Energies, 2018, 11, 2889.	1.6	41
171	Modeling Spatial Flood using Novel Ensemble Artificial Intelligence Approaches in Northern Iran. Remote Sensing, 2020, 12, 3423.	1.8	41
172	Determination of thermal conductivity ratio of CuO/ethylene glycol nanofluid by connectionist approach. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 383-395.	2.7	40
173	Application of support vector machine for prediction of electrical and thermal performance in PV/T system. Energy and Buildings, 2016, 111, 267-277.	3.1	39
174	A Comparative Assessment of Predicting Daily Solar Radiation Using Bat Neural Network (BNN), Generalized Regression Neural Network (GRNN), and Neuro-Fuzzy (NF) System: A Case Study. Energies, 2018, 11, 1188.	1.6	39
175	Factors Affecting Acceptance of Mobile Library Applications: Structural Equation Model. Libri, 2018, 68, 99-112.	0.5	39
176	Comparative analysis of soft computing techniques RBF, MLP, and ANFIS with MLR and MNLR for predicting grade-control scour hole geometry. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 529-550.	1.5	39
177	Multiâ€objective approach of energy efficient workflow scheduling in cloud environments. Concurrency Computation Practice and Experience, 2019, 31, e4949.	1.4	39
178	Modeling climate change impact on wind power resources using adaptive neuro-fuzzy inference system. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 491-506.	1.5	38
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180	Recurrent Neural Network and Reinforcement Learning Model for COVID-19 Prediction. Frontiers in Public Health, 2021, 9, 744100.	1.3	38

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