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List of Publications by Year
in descending order

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387 papers	19,226 citations	10351 72 h-index	25716 108 g-index
423 all docs	423 docs citations	423 times ranked	15253 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 machineâ€“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 machineâ€“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	Predicting Stock Market Trends Using Machine Learning and Deep Learning Algorithms Via Continuous and Binary Data; a Comparative Analysis. IEEE Access, 2020, 8, 150199-150212.	2.6	196
13	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
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	Comparative Analysis of Recurrent Neural Network Architectures for Reservoir Inflow Forecasting. Water (Switzerland), 2020, 12, 1500.	1.2	157
18	Copy-move forgery detection: Survey, challenges and future directions. Journal of Network and Computer Applications, 2016, 75, 259-278.	5.8	155

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19	Integrated machine learning methods with resampling algorithms for flood susceptibility prediction. Science of the Total Environment, 2020, 705, 135983.	3.9	155
20	Computational intelligence approach for modeling hydrogen production: a review. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 438-458.	1.5	154
21	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
22	Estimating building energy consumption using extreme learning machine method. Energy, 2016, 97, 506-516.	4.5	153
23	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
24	Prediction of Hydropower Generation Using Grey Wolf Optimization Adaptive Neuro-Fuzzy Inference System. Energies, 2019, 12, 289.	1.6	151
25	Adaptive neuro-fuzzy approach for solar radiation prediction in Nigeria. Renewable and Sustainable Energy Reviews, 2015, 51, 1784-1791.	8.2	141
26	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
27	Soft computing approaches for forecasting reference evapotranspiration. Computers and Electronics in Agriculture, 2015, 113, 164-173.	3.7	139
28	A review on deep learning approaches in healthcare systems: Taxonomies, challenges, and open issues. Journal of Biomedical Informatics, 2021, 113, 103627.	2.5	133
29	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
30	Flash Flood Susceptibility Modeling Using New Approaches of Hybrid and Ensemble Tree-Based Machine Learning Algorithms. Remote Sensing, 2020, 12, 3568.	1.8	118
31	Performance investigation of micro- and nano-sized particle erosion in a 90Â° elbow using an ANFIS model. Powder Technology, 2015, 284, 336-343.	2.1	117
32	Sustainable Cloud Data Centers: A survey of enabling techniques and technologies. Renewable and Sustainable Energy Reviews, 2016, 62, 195-214.	8.2	114
33	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
34	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
35	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
36	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

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37	Extreme learning machine for prediction of heat load in district heating systems. Energy and Buildings, 2016, 122, 222-227.	3.1	105
38	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
39	Snow avalanche hazard prediction using machine learning methods. Journal of Hydrology, 2019, 577, 123929.	2.3	104
40	Groundwater Quality Assessment for Sustainable Drinking and Irrigation. Sustainability, 2020, 12, 177.	1.6	104
41	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
42	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
43	Prediction of heat load in district heating systems by Support Vector Machine with Firefly searching algorithm. Energy, 2016, 95, 266-273.	4.5	103
44	Extreme learning machine based prediction of daily dew point temperature. Computers and Electronics in Agriculture, 2015, 117, 214-225.	3.7	102
45	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
46	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
47	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
48	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
49	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
50	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
51	Estimating the diffuse solar radiation using a coupled support vector machineâ€“wavelet transform model. Renewable and Sustainable Energy Reviews, 2016, 56, 428-435.	8.2	94
52	A Hybrid clustering and classification technique for forecasting shortâ€term energy consumption. Environmental Progress and Sustainable Energy, 2019, 38, 66-76.	1.3	94
53	Spatial hazard assessment of the PM10 using machine learning models in Barcelona, Spain. Science of the Total Environment, 2020, 701, 134474.	3.9	91
54	A New Online Learned Interval Type-3 Fuzzy Control System for Solar Energy Management Systems. IEEE Access, 2021, 9, 10498-10508.	2.6	91

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55	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
56	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
57	Evaluating the wind energy potential for hydrogen production: A case study. International Journal of Hydrogen Energy, 2016, 41, 6200-6210.	3.8	89
58	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
59	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
60	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
61	Computational Intelligence on Short-Term Load Forecasting: A Methodological Overview. Energies, 2019, 12, 393.	1.6	88
62	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
63	Comprehensive Review of Deep Reinforcement Learning Methods and Applications in Economics. Mathematics, 2020, 8, 1640.	1.1	87
64	SmartBlock-SDN: An Optimized Blockchain-SDN Framework for Resource Management in IoT. IEEE Access, 2021, 9, 28361-28376.	2.6	87
65	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
66	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
67	Data Science in Economics: Comprehensive Review of Advanced Machine Learning and Deep Learning Methods. Mathematics, 2020, 8, 1799.	1.1	82
68	Earth fissure hazard prediction using machine learning models. Environmental Research, 2019, 179, 108770.	3.7	81
69	Sensor Data Fusion by Support Vector Regression Methodologyâ€"A Comparative Study. IEEE Sensors Journal, 2015, 15, 850-854.	2.4	80
70	A review of quadrotor UAV: control methodologies and performance evaluation. International Journal of Automation and Control, 2016, 10, 87.	0.3	77
71	Comparative analysis of reference evapotranspiration equations modelling by extreme learning machine. Computers and Electronics in Agriculture, 2016, 127, 56-63.	3.7	76
72	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

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73	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
74	Predicting solubility of CO2 in brine by advanced machine learning systems: Application to carbon capture and sequestration. Journal of CO2 Utilization, 2019, 33, 83-95.	3.3	75
75	Evaluation of electrical efficiency of photovoltaic thermal solar collector. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 545-565.	1.5	75
76	Predicting the wind power density based upon extreme learningÂmachine. Energy, 2015, 86, 232-239.	4.5	73
77	Estimating Daily Dew Point Temperature Using Machine Learning Algorithms. Water (Switzerland), 2019, 11, 582.	1.2	73
78	Applications of computational intelligence in vehicle traffic congestion problem: a survey. Soft Computing, 2018, 22, 2299-2320.	2.1	72
79	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
80	Hybrid ANFISâ€“PSO approach for predicting optimum parameters of a protective spur dike. Applied Soft Computing Journal, 2015, 30, 642-649.	4.1	70
81	Securing IoT-Based RFID Systems: A Robust Authentication Protocol Using Symmetric Cryptography. Sensors, 2019, 19, 4752.	2.1	70
82	DistBlockBuilding: A Distributed Blockchain-Based SDN-IoT Network for Smart Building Management. IEEE Access, 2020, 8, 140008-140018.	2.6	70
83	Deep learned recurrent type-3 fuzzy system: Application for renewable energy modeling/prediction. Energy Reports, 2021, 7, 8115-8127.	2.5	70
84	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
85	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
86	Surface roughness prediction by extreme learning machine constructed with abrasive water jet. Precision Engineering, 2016, 43, 86-92.	1.8	68
87	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
88	Prediction of the solar radiation on the Earth using support vector regression technique. Infrared Physics and Technology, 2015, 68, 179-185.	1.3	67
89	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
90	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

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91	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
92	Prediction of Water-Level in the Urmia Lake Using the Extreme Learning Machine Approach. Water Resources Management, 2016, 30, 5217-5229.	1.9	64
93	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
94	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
95	Heat load prediction in district heating systems with adaptive neuro-fuzzy method. Renewable and Sustainable Energy Reviews, 2015, 48, 760-767.	8.2	62
96	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
97	Extreme learning machine assessment for estimating sediment transport in open channels. Engineering With Computers, 2016, 32, 691-704.	3.5	60
98	SDNâ€“IoT empowered intelligent framework for industry 4.0 applications during COVID-19 pandemic. Cluster Computing, 2022, 25, 2351-2368.	3.5	60
99	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
100	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
101	River flow prediction using hybrid PSOGSA algorithm based on feed-forward neural network. Soft Computing, 2019, 23, 10429-10438.	2.1	59
102	Ensemble of Machine-Learning Methods for Predicting Gully Erosion Susceptibility. Remote Sensing, 2020, 12, 3675.	1.8	59
103	A New K-Nearest Neighbors Classifier for Big Data Based on Efficient Data Pruning. Mathematics, 2020, 8, 286.	1.1	59
104	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
105	Flutter speed estimation using presented differential quadrature method formulation. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 804-810.	1.5	58
106	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
107	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
108	Implementation of Artificial Intelligence Based Ensemble Models for Gully Erosion Susceptibility Assessment. Remote Sensing, 2020, 12, 3620.	1.8	56

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109	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
110	Incorporating multi-criteria decision-making and fuzzy-value functions for flood susceptibility assessment. Geocarto International, 2021, 36, 2345-2365.	1.7	55
111	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
112	Extreme learning machine approach for sensorless wind speed estimation. Mechatronics, 2016, 34, 78-83.	2.0	54
113	Support vector machine-based exergetic modelling of a DI diesel engine running on biodieselâ€“diesel blends containing expanded polystyrene. Applied Thermal Engineering, 2016, 94, 727-747.	3.0	54
114	A systematic review of approaches to assessing cybersecurity awareness. Kybernetes, 2015, 44, 606-622.	1.2	53
115	Adaptive control algorithm of flexible robotic gripper by extreme learning machine. Robotics and Computer-Integrated Manufacturing, 2016, 37, 170-178.	6.1	53
116	A Novel Detection Algorithm to Identify False Data Injection Attacks on Power System State Estimation. Energies, 2019, 12, 2209.	1.6	53
117	BSS: block-based sharing scheme for secure data storage services in mobile cloud environment. Journal of Supercomputing, 2014, 70, 946-976.	2.4	52
118	Transport and retention of engineered Al2O3, TiO2 and SiO2 nanoparticles through various sedimentary rocks. Scientific Reports, 2015, 5, 14264.	1.6	52
119	Software-Defined Cloud Computing: A Systematic Review on Latest Trends and Developments. IEEE Access, 2019, 7, 93294-93314.	2.6	52
120	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
121	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
122	Rigorous prognostication of natural gas viscosity: Smart modeling and comparative study. Fuel, 2018, 222, 766-778.	3.4	51
123	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
124	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
125	Application of adaptive neuro-fuzzy methodology for estimating building energy consumption. Renewable and Sustainable Energy Reviews, 2016, 53, 1520-1528.	8.2	50
126	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

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127	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
128	Design and state of art of innovative wind turbine systems. Renewable and Sustainable Energy Reviews, 2016, 61, 258-265.	8.2	49
129	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
130	A Novel Method to Water Level Prediction using RBF and FFA. Water Resources Management, 2016, 30, 3265-3283.	1.9	48
131	Review of Soft Computing Models in Design and Control of Rotating Electrical Machines. Energies, 2019, 12, 1049.	1.6	48
132	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
133	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
134	Early Detection of the Advanced Persistent Threat Attack Using Performance Analysis of Deep Learning. IEEE Access, 2020, 8, 186125-186137.	2.6	46
135	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
136	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
137	Developing an ANFIS-PSO Model to Predict Mercury Emissions in Combustion Flue Gases. Mathematics, 2019, 7, 965.	1.1	45
138	Fractional-Order Fuzzy Control Approach for Photovoltaic/Battery Systems under Unknown Dynamics, Variable Irradiation and Temperature. Electronics (Switzerland), 2020, 9, 1455.	1.8	45
139	An Enhanced Distributed Data Aggregation Method in the Internet of Things. Sensors, 2019, 19, 3173.	2.1	44
140	Social Capital Contributions to Food Security: A Comprehensive Literature Review. Foods, 2020, 9, 1650.	1.9	44
141	Comparative Analysis of Artificial Intelligence Models for Accurate Estimation of Groundwater Nitrate Concentration. Sensors, 2020, 20, 5763.	2.1	44
142	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
143	Using ANFIS for selection of more relevant parameters to predict dew point temperature. Applied Thermal Engineering, 2016, 96, 311-319.	3.0	43
144	Precipitation Estimation Using Support Vector Machine with Discrete Wavelet Transform. Water Resources Management, 2016, 30, 641-652.	1.9	43

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145	A review of mobile pervasive learning: Applications and issues. Computers in Human Behavior, 2015, 46, 239-244.	5.1	42
146	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
147	Estimation of Reference Evapotranspiration Using Neural Networks and Cuckoo Search Algorithm. Journal of Irrigation and Drainage Engineering - ASCE, 2016, 142, .	0.6	42
148	Particle swarm optimization-based radial basis function network for estimation of reference evapotranspiration. Theoretical and Applied Climatology, 2016, 125, 555-563.	1.3	42
149	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
150	Training Multilayer Perceptron with Genetic Algorithms and Particle Swarm Optimization for Modeling Stock Price Index Prediction. Entropy, 2020, 22, 1239.	1.1	42
151	Using SVM-RSM and ELM-RSM Approaches for Optimizing the Production Process of Methyl and Ethyl Esters. Energies, 2018, 11, 2889.	1.6	41
152	Modeling Spatial Flood using Novel Ensemble Artificial Intelligence Approaches in Northern Iran. Remote Sensing, 2020, 12, 3423.	1.8	41
153	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
154	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
155	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
156	Factors Affecting Acceptance of Mobile Library Applications: Structural Equation Model. Libri, 2018, 68, 99-112.	0.5	39
157	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
158	Multiâ€objective approach of energy efficient workflow scheduling in cloud environments. Concurrency Computation Practice and Experience, 2019, 31, e4949.	1.4	39
159	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
160	DyHAP: Dynamic Hybrid ANFIS-PSO Approach for Predicting Mobile Malware. PLoS ONE, 2016, 11, e0162627.	1.1	38
161	An appraisal of wind turbine wake models by adaptive neuro-fuzzy methodology. International Journal of Electrical Power and Energy Systems, 2014, 63, 618-624.	3.3	37
162	System identification and control of robot manipulator based on fuzzy adaptive differential evolution algorithm. Advances in Engineering Software, 2014, 78, 60-66.	1.8	37

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163	A novel Boosted-neural network ensemble for modeling multi-target regression problems. Engineering Applications of Artificial Intelligence, 2015, 45, 204-219.	4.3	37
164	Intelligent forecasting of residential heating demand for the District Heating System based on the monthly overall natural gas consumption. Energy and Buildings, 2015, 104, 208-214.	3.1	37
165	Wind wake influence estimation on energy production of wind farm by adaptive neuro-fuzzy methodology. Energy, 2015, 80, 361-372.	4.5	36
166	Comparative Analysis of Machine Learning Models for Prediction of Remaining Service Life of Flexible Pavement. Mathematics, 2019, 7, 1198.	1.1	36
167	Intelligent Road Inspection with Advanced Machine Learning; Hybrid Prediction Models for Smart Mobility and Transportation Maintenance Systems. Energies, 2020, 13, 1718.	1.6	36
168	Groundwater level prediction in arid areas using wavelet analysis and Gaussian process regression. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1147-1158.	1.5	36
169	Appraisal of soft computing methods for short term consumers' heat load prediction in district heating systems. Energy, 2015, 82, 697-704.	4.5	35
170	Comparative study of clustering methods for wake effect analysis in wind farm. Energy, 2016, 95, 573-579.	4.5	35
171	Sensorless estimation of wind speed by adaptive neuro-fuzzy methodology. International Journal of Electrical Power and Energy Systems, 2014, 62, 490-495.	3.3	34
172	Novel genetic-based negative correlation learning for estimating soil temperature. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 506-516.	1.5	34
173	Modeling heat capacity of ionic liquids using group method of data handling: A hybrid and structure-based approach. International Journal of Heat and Mass Transfer, 2019, 129, 7-17.	2.5	34
174	A machine learning approach for active/reactive power control of grid-connected doubly-fed induction generators. Ain Shams Engineering Journal, 2022, 13, 101564.	3.5	34
175	Applying different resampling strategies in machine learning models to predict head-cut gully erosion susceptibility. AEJ - Alexandria Engineering Journal, 2021, 60, 5813-5829.	3.4	34
176	Estimation of flexible pavement structural capacity using machine learning techniques. Frontiers of Structural and Civil Engineering, 2020, 14, 1083-1096.	1.2	33
177	Influence of clay particles on Al2O3 and TiO2 nanoparticles transport and retention through limestone porous media: measurements and mechanisms. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	32
178	Community detection in social networks using user frequent pattern mining. Knowledge and Information Systems, 2017, 51, 159-186.	2.1	32
179	Forecasting of Underactuated Robotic Finger Contact Forces by Support Vector Regression Methodology. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1659019.	0.7	31
180	Firefly optimization algorithm effect on support vector regression prediction improvement of a modified labyrinth side weir's discharge coefficient. Applied Mathematics and Computation, 2016, 274, 14-19.	1.4	31

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