

Shahaboddin Shamshirband

List of Publications by Citations

Source:

<https://exaly.com/author-pdf/5556690/shahaboddin-shamshirband-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

359
papers

12,232
citations

58
h-index

86
g-index

478
ext. papers

15,763
ext. citations

4.3
avg, IF

7.28
L-index

#	Paper	IF	Citations
359	A systematic literature review on agile requirements engineering practices and challenges. <i>Computers in Human Behavior</i> , 2015 , 51, 915-929	7.7	230
358	A support vector machine-firefly algorithm-based model for global solar radiation prediction. <i>Solar Energy</i> , 2015 , 115, 632-644	6.8	217
357	Survey of computational intelligence as basis to big flood management: challenges, research directions and future work. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 411-437	4.5	213
356	Coupling a firefly algorithm with support vector regression to predict evaporation in northern Iran. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 584-597	4.5	209
355	A new hybrid support vector machine-wavelet transform approach for estimation of horizontal global solar radiation. <i>Energy Conversion and Management</i> , 2015 , 92, 162-171	10.6	179
354	State of the Art of Machine Learning Models in Energy Systems, a Systematic Review. <i>Energies</i> , 2019 , 12, 1301	3.1	156
353	Adaptive neuro-fuzzy maximal power extraction of wind turbine with continuously variable transmission. <i>Energy</i> , 2014 , 64, 868-874	7.9	152
352	A survey on indexing techniques for big data: taxonomy and performance evaluation. <i>Knowledge and Information Systems</i> , 2016 , 46, 241-284	2.4	146
351	Sustainable Business Models: A Review. <i>Sustainability</i> , 2019 , 11, 1663	3.6	145
350	Support vector regression based prediction of global solar radiation on a horizontal surface. <i>Energy Conversion and Management</i> , 2015 , 91, 433-441	10.6	130
349	Computational intelligence approach for modeling hydrogen production: a review. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 438-458	4.5	124
348	Machine Learning-Based Sentiment Analysis for Twitter Accounts. <i>Mathematical and Computational Applications</i> , 2018 , 23, 11	1	118
347	Ensemble models with uncertainty analysis for multi-day ahead forecasting of chlorophyll a concentration in coastal waters. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 91-101	4.5	118
346	Application of extreme learning machine for short term output power forecasting of three grid-connected PV systems. <i>Journal of Cleaner Production</i> , 2017 , 167, 395-405	10.3	117
345	Adaptive neuro-fuzzy approach for solar radiation prediction in Nigeria. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 51, 1784-1791	16.2	115
344	A Survey of Deep Learning Techniques: Application in Wind and Solar Energy Resources. <i>IEEE Access</i> , 2019 , 7, 164650-164666	3.5	115
343	A Deep Learning Ensemble Approach for Diabetic Retinopathy Detection. <i>IEEE Access</i> , 2019 , 7, 150530-150539	3.9	112

342	Estimating building energy consumption using extreme learning machine method. <i>Energy</i> , 2016 , 97, 506-516	5.6	111
341	Flash-flood hazard assessment using ensembles and Bayesian-based machine learning models: Application of the simulated annealing feature selection method. <i>Science of the Total Environment</i> , 2020 , 711, 135161	10.2	110
340	Experimental and computational fluid dynamics-based numerical simulation of using natural gas in a dual-fueled diesel engine. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 517-534	4.5	109
339	Computational Intelligence Approaches for Energy Load Forecasting in Smart Energy Management Grids: State of the Art, Future Challenges, and Research Directions. <i>Energies</i> , 2018 , 11, 596	3.1	106
338	Cooperative game theoretic approach using fuzzy Q-learning for detecting and preventing intrusions in wireless sensor networks. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 32, 228-241	7.2	106
337	Soft computing approaches for forecasting reference evapotranspiration. <i>Computers and Electronics in Agriculture</i> , 2015 , 113, 164-173	6.5	106
336	Performance investigation of micro- and nano-sized particle erosion in a 90°elbow using an ANFIS model. <i>Powder Technology</i> , 2015 , 284, 336-343	5.2	103
335	Potential of radial basis function based support vector regression for global solar radiation prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 1005-1011	16.2	101
334	Prediction of Hydropower Generation Using Grey Wolf Optimization Adaptive Neuro-Fuzzy Inference System. <i>Energies</i> , 2019 , 12, 289	3.1	99
333	Daily global solar radiation prediction from air temperatures using kernel extreme learning machine: A case study for Iran. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 134, 109-117	2	92
332	A comparative evaluation for identifying the suitability of extreme learning machine to predict horizontal global solar radiation. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 1031-1042	16.2	92
331	Support vector regression methodology for wind turbine reaction torque prediction with power-split hydrostatic continuous variable transmission. <i>Energy</i> , 2014 , 67, 623-630	7.9	92
330	Effect of river flow on the quality of estuarine and coastal waters using machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 810-823	4.5	92
329	Predicting Standardized Streamflow index for hydrological drought using machine learning models. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 339-350	4.5	88
328	Extreme learning machine for prediction of heat load in district heating systems. <i>Energy and Buildings</i> , 2016 , 122, 222-227	7	88
327	Numerical simulation of nanofluid flow inside a root canal. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 254-264	4.5	85
326	Forecasting pan evaporation with an integrated artificial neural network quantum-behaved particle swarm optimization model: a case study in Talesh, Northern Iran. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 724-737	4.5	85
325	Application of firefly algorithm-based support vector machines for prediction of field capacity and permanent wilting point. <i>Soil and Tillage Research</i> , 2017 , 172, 32-38	6.5	84

324	D-FICCA: A density-based fuzzy imperialist competitive clustering algorithm for intrusion detection in wireless sensor networks. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 55, 212-226	4.6	82
323	Potential of adaptive neuro-fuzzy system for prediction of daily global solar radiation by day of the year. <i>Energy Conversion and Management</i> , 2015 , 93, 406-413	10.6	81
322	An appraisal and design of a multi-agent system based cooperative wireless intrusion detection computational intelligence technique. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 2105-2127	7.7	80
321	Integrated machine learning methods with resampling algorithms for flood susceptibility prediction. <i>Science of the Total Environment</i> , 2020 , 705, 135983	10.2	79
320	Prediction of heat load in district heating systems by Support Vector Machine with Firefly searching algorithm. <i>Energy</i> , 2016 , 95, 266-273	7.9	78
319	Prediction of multi-inputs bubble column reactor using a novel hybrid model of computational fluid dynamics and machine learning. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 482-492	4.5	77
318	Extreme learning machine based prediction of daily dew point temperature. <i>Computers and Electronics in Agriculture</i> , 2015 , 117, 214-225	6.5	74
317	Deep Learning for Stock Market Prediction. <i>Entropy</i> , 2020 , 22,	2.8	73
316	A survey of water level fluctuation predicting in Urmia Lake using support vector machine with firefly algorithm. <i>Applied Mathematics and Computation</i> , 2015 , 270, 731-743	2.7	72
315	Application of ANNs, ANFIS and RSM to estimating and optimizing the parameters that affect the yield and cost of biodiesel production. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 611-624	4.5	72
314	Co-FAIS: Cooperative fuzzy artificial immune system for detecting intrusion in wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2014 , 42, 102-117	7.9	71
313	Forecasting of consumers heat load in district heating systems using the support vector machine with a discrete wavelet transform algorithm. <i>Energy</i> , 2015 , 87, 343-351	7.9	70
312	Sustainable Cloud Data Centers: A survey of enabling techniques and technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 62, 195-214	16.2	69
311	Potential of radial basis function-based support vector regression for apple disease detection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 55, 512-519	4.6	67
310	Comparative Analysis of Recurrent Neural Network Architectures for Reservoir Inflow Forecasting. <i>Water (Switzerland)</i> , 2020 , 12, 1500	3	64
309	Predicting Stock Market Trends Using Machine Learning and Deep Learning Algorithms Via Continuous and Binary Data; a Comparative Analysis. <i>IEEE Access</i> , 2020 , 8, 150199-150212	3.5	64
308	Investigation of submerged structures flexibility on sloshing frequency using a boundary element method and finite element analysis. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 519-528	4.5	63
307	Computational intelligence approaches for classification of medical data: State-of-the-art, future challenges and research directions. <i>Neurocomputing</i> , 2018 , 276, 2-22	5.4	62

306	Snow avalanche hazard prediction using machine learning methods. <i>Journal of Hydrology</i> , 2019 , 577, 123929	6	62
305	Predicting the wind power density based upon extreme learning machine. <i>Energy</i> , 2015 , 86, 232-239	7.9	61
304	Identifying the most significant input parameters for predicting global solar radiation using an ANFIS selection procedure. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 63, 423-434	16.2	59
303	Incremental proxy re-encryption scheme for mobile cloud computing environment. <i>Journal of Supercomputing</i> , 2014 , 68, 624-651	2.5	59
302	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. <i>Energies</i> , 2018 , 11, 860	3.1	58
301	Spatial hazard assessment of the PM10 using machine learning models in Barcelona, Spain. <i>Science of the Total Environment</i> , 2020 , 701, 134474	10.2	58
300	Wind speed prediction using a hybrid model of the multi-layer perceptron and whale optimization algorithm. <i>Energy Reports</i> , 2020 , 6, 1147-1159	4.6	56
299	Sensor Data Fusion by Support Vector Regression Methodology: A Comparative Study. <i>IEEE Sensors Journal</i> , 2015 , 15, 850-854	4	55
298	Using self-adaptive evolutionary algorithm to improve the performance of an extreme learning machine for estimating soil temperature. <i>Computers and Electronics in Agriculture</i> , 2016 , 124, 150-160	6.5	55
297	Novel Ensemble Approach of Deep Learning Neural Network (DLNN) Model and Particle Swarm Optimization (PSO) Algorithm for Prediction of Gully Erosion Susceptibility. <i>Sensors</i> , 2020 , 20,	3.8	55
296	Modeling monthly pan evaporation using wavelet support vector regression and wavelet artificial neural networks in arid and humid climates. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 177-187	4.5	55
295	Hybrid ANFIS/PSO approach for predicting optimum parameters of a protective spur dike. <i>Applied Soft Computing Journal</i> , 2015 , 30, 642-649	7.5	53
294	Decreasing environmental impacts of cropping systems using life cycle assessment (LCA) and multi-objective genetic algorithm. <i>Journal of Cleaner Production</i> , 2015 , 86, 67-77	10.3	52
293	A survey of dynamic replication strategies for improving data availability in data grids. <i>Future Generation Computer Systems</i> , 2012 , 28, 337-349	7.5	52
292	Sugarcane growth prediction based on meteorological parameters using extreme learning machine and artificial neural network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 738-749	4.5	52
291	Determining the most important variables for diffuse solar radiation prediction using adaptive neuro-fuzzy methodology; case study: City of Kerman, Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 1570-1579	16.2	51
290	Securing IoT-Based RFID Systems: A Robust Authentication Protocol Using Symmetric Cryptography. <i>Sensors</i> , 2019 , 19,	3.8	51
289	Computational Intelligence on Short-Term Load Forecasting: A Methodological Overview. <i>Energies</i> , 2019 , 12, 393	3.1	48

288	Modeling energy consumption and greenhouse gas emissions for kiwifruit production using artificial neural networks. <i>Journal of Cleaner Production</i> , 2016 , 133, 924-931	10.3	48
287	Determination of the most influential weather parameters on reference evapotranspiration by adaptive neuro-fuzzy methodology. <i>Computers and Electronics in Agriculture</i> , 2015 , 114, 277-284	6.5	48
286	Modeling Pan Evaporation Using Gaussian Process Regression K-Nearest Neighbors Random Forest and Support Vector Machines; Comparative Analysis. <i>Atmosphere</i> , 2020 , 11, 66	2.7	48
285	Surface roughness prediction by extreme learning machine constructed with abrasive water jet. <i>Precision Engineering</i> , 2016 , 43, 86-92	2.9	46
284	Prediction of the solar radiation on the Earth using support vector regression technique. <i>Infrared Physics and Technology</i> , 2015 , 68, 179-185	2.7	46
283	An appraisal of wind speed distribution prediction by soft computing methodologies: A comparative study. <i>Energy Conversion and Management</i> , 2014 , 84, 133-139	10.6	46
282	Estimating longitudinal dispersion coefficient in natural streams using empirical models and machine learning algorithms. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 311-322	4.5	45
281	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. <i>Energy</i> , 2016 , 94, 443-456	7.9	45
280	A Hybrid clustering and classification technique for forecasting short-term energy consumption. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 66-76	2.5	45
279	Transport and retention of engineered Al ₂ O ₃ , TiO ₂ , and SiO ₂ nanoparticles through various sedimentary rocks. <i>Scientific Reports</i> , 2015 , 5, 14264	4.9	45
278	Groundwater Quality Assessment for Sustainable Drinking and Irrigation. <i>Sustainability</i> , 2020 , 12, 177	3.6	45
277	Prediction of Water-Level in the Urmia Lake Using the Extreme Learning Machine Approach. <i>Water Resources Management</i> , 2016 , 30, 5217-5229	3.7	45
276	Coronary Artery Disease Diagnosis; Ranking the Significant Features Using a Random Trees Model. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	43
275	Applications of computational intelligence in vehicle traffic congestion problem: a survey. <i>Soft Computing</i> , 2018 , 22, 2299-2320	3.5	43
274	Support vector machine-based exergetic modelling of a DI diesel engine running on biodiesel-diesel blends containing expanded polystyrene. <i>Applied Thermal Engineering</i> , 2016 , 94, 727-747	5.8	43
273	Extreme learning machine assessment for estimating sediment transport in open channels. <i>Engineering With Computers</i> , 2016 , 32, 691-704	4.5	43
272	Using the gravitational emulation local search algorithm to solve the multi-objective flexible dynamic job shop scheduling problem in Small and Medium Enterprises. <i>Annals of Operations Research</i> , 2015 , 229, 451-474	3.2	42
271	Flash Flood Susceptibility Modeling Using New Approaches of Hybrid and Ensemble Tree-Based Machine Learning Algorithms. <i>Remote Sensing</i> , 2020 , 12, 3568	5	42

270	Evaluation of electrical efficiency of photovoltaic thermal solar collector. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 545-565	4.5	42
269	Development of a new type of passively adaptive compliant gripper. <i>Industrial Robot</i> , 2013 , 40, 610-623	1.4	42
268	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. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 892-904	4.5	41
267	Extreme learning machine approach for sensorless wind speed estimation. <i>Mechatronics</i> , 2016 , 34, 78-83	3	41
266	Application of adaptive neuro-fuzzy methodology for estimating building energy consumption. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 1520-1528	16.2	41
265	BSS: block-based sharing scheme for secure data storage services in mobile cloud environment. <i>Journal of Supercomputing</i> , 2014 , 70, 946-976	2.5	41
264	A review on deep learning approaches in healthcare systems: Taxonomies, challenges, and open issues. <i>Journal of Biomedical Informatics</i> , 2021 , 113, 103627	10.2	41
263	Prediction of remaining service life of pavement using an optimized support vector machine (case study of SemnanBiruzkuh road). <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 188-198	4.5	40
262	Flutter speed estimation using presented differential quadrature method formulation. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 804-810	4.5	39
261	Modeling temperature-based oil-water relative permeability by integrating advanced intelligent models with grey wolf optimization: Application to thermal enhanced oil recovery processes. <i>Fuel</i> , 2019 , 242, 649-663	7.1	39
260	A combined support vector machine-wavelet transform model for prediction of sediment transport in sewer. <i>Flow Measurement and Instrumentation</i> , 2016 , 47, 19-27	2.2	39
259	Estimating Daily Dew Point Temperature Using Machine Learning Algorithms. <i>Water (Switzerland)</i> , 2019 , 11, 582	3	38
258	Appraisal of the support vector machine to forecast residential heating demand for the District Heating System based on the monthly overall natural gas consumption. <i>Energy</i> , 2015 , 93, 1558-1567	7.9	38
257	Identification and prioritization of critical issues for the promotion of e-learning in Pakistan. <i>Computers in Human Behavior</i> , 2015 , 51, 161-171	7.7	38
256	River flow prediction using hybrid PSO-GSA algorithm based on feed-forward neural network. <i>Soft Computing</i> , 2019 , 23, 10429-10438	3.5	38
255	Earth fissure hazard prediction using machine learning models. <i>Environmental Research</i> , 2019 , 179, 108770	7.9	37
254	Determination of thermal conductivity ratio of CuO/ethylene glycol nanofluid by connectionist approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 91, 383-395	5.3	37
253	Data Science in Economics: Comprehensive Review of Advanced Machine Learning and Deep Learning Methods. <i>Mathematics</i> , 2020 , 8, 1799	2.3	37

252	Estimation of Reference Evapotranspiration Using Neural Networks and Cuckoo Search Algorithm. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016 , 142, 04015044	1.1	36
251	Adaptive control algorithm of flexible robotic gripper by extreme learning machine. <i>Robotics and Computer-Integrated Manufacturing</i> , 2016 , 37, 170-178	9.2	34
250	Predicting solubility of CO ₂ in brine by advanced machine learning systems: Application to carbon capture and sequestration. <i>Journal of CO₂ Utilization</i> , 2019 , 33, 83-95	7.6	34
249	Rigorous prognostication of natural gas viscosity: Smart modeling and comparative study. <i>Fuel</i> , 2018 , 222, 766-778	7.1	34
248	Modeling interfacial tension in N ₂ /n-alkane systems using corresponding state theory: Application to gas injection processes. <i>Fuel</i> , 2018 , 222, 779-791	7.1	34
247	Resource management in cropping systems using artificial intelligence techniques: a case study of orange orchards in north of Iran. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 413-427	3.7	34
246	Ensemble of Machine-Learning Methods for Predicting Gully Erosion Susceptibility. <i>Remote Sensing</i> , 2020 , 12, 3675	5	34
245	Incorporating multi-criteria decision-making and fuzzy-value functions for flood susceptibility assessment. <i>Geocarto International</i> , 2019 , 1-21	2.7	34
244	A Fast Recommender System for Cold User Using Categorized Items. <i>Mathematical and Computational Applications</i> , 2018 , 23, 1	1	34
243	A novel Boosted-neural network ensemble for modeling multi-target regression problems. <i>Engineering Applications of Artificial Intelligence</i> , 2015 , 45, 204-219	7.2	33
242	Using ANFIS for selection of more relevant parameters to predict dew point temperature. <i>Applied Thermal Engineering</i> , 2016 , 96, 311-319	5.8	33
241	Precipitation Estimation Using Support Vector Machine with Discrete Wavelet Transform. <i>Water Resources Management</i> , 2016 , 30, 641-652	3.7	33
240	Wind wake influence estimation on energy production of wind farm by adaptive neuro-fuzzy methodology. <i>Energy</i> , 2015 , 80, 361-372	7.9	33
239	Daily global solar radiation modeling using data-driven techniques and empirical equations in a semi-arid climate. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 142-157	4.5	33
238	A review of mobile pervasive learning: Applications and issues. <i>Computers in Human Behavior</i> , 2015 , 46, 239-244	7.7	32
237	Predicting discharge coefficient of triangular labyrinth weir using extreme learning machine, artificial neural network and genetic programming. <i>Neural Computing and Applications</i> , 2018 , 29, 983-989	4.8	31
236	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. <i>Energies</i> , 2018 , 11, 1188	3.1	31
235	DyHAP: Dynamic Hybrid ANFIS-PSO Approach for Predicting Mobile Malware. <i>PLoS ONE</i> , 2016 , 11, e0162627	3.7	31

234	Intelligent forecasting of residential heating demand for the District Heating System based on the monthly overall natural gas consumption. <i>Energy and Buildings</i> , 2015 , 104, 208-214	7	30
233	Implementation of Artificial Intelligence Based Ensemble Models for Gully Erosion Susceptibility Assessment. <i>Remote Sensing</i> , 2020 , 12, 3620	5	30
232	Application of support vector machine for prediction of electrical and thermal performance in PV/T system. <i>Energy and Buildings</i> , 2016 , 111, 267-277	7	30
231	Particle swarm optimization-based radial basis function network for estimation of reference evapotranspiration. <i>Theoretical and Applied Climatology</i> , 2016 , 125, 555-563	3	29
230	Comparative analysis of soft computing techniques RBF, MLP, and ANFIS with MLR and MNLR for predicting grade-control scour hole geometry. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 529-550	4.5	29
229	Novel genetic-based negative correlation learning for estimating soil temperature. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 506-516	4.5	29
228	An appraisal of wind turbine wake models by adaptive neuro-fuzzy methodology. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 63, 618-624	5.1	29
227	Community detection in social networks using user frequent pattern mining. <i>Knowledge and Information Systems</i> , 2017 , 51, 159-186	2.4	29
226	Streamflow regionalization using a similarity approach in ungauged basins: Application of the geo-environmental signatures in the Karkheh River Basin, Iran. <i>Catena</i> , 2019 , 182, 104128	5.8	28
225	Computer-aided decision-making for predicting liver disease using PSO-based optimized SVM with feature selection. <i>Informatics in Medicine Unlocked</i> , 2019 , 17, 100255	5.3	28
224	Developing an ANFIS-PSO Model to Predict Mercury Emissions in Combustion Flue Gases. <i>Mathematics</i> , 2019 , 7, 965	2.3	28
223	Sensorless estimation of wind speed by adaptive neuro-fuzzy methodology. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 62, 490-495	5.1	28
222	A Novel Method to Water Level Prediction using RBF and FFA. <i>Water Resources Management</i> , 2016 , 30, 3265-3283	3.7	28
221	Using SVM-RSM and ELM-RSM Approaches for Optimizing the Production Process of Methyl and Ethyl Esters. <i>Energies</i> , 2018 , 11, 2889	3.1	28
220	Support Vector Regression Integrated with Fruit Fly Optimization Algorithm for River Flow Forecasting in Lake Urmia Basin. <i>Water (Switzerland)</i> , 2019 , 11, 1934	3	27
219	Review of Soft Computing Models in Design and Control of Rotating Electrical Machines. <i>Energies</i> , 2019 , 12, 1049	3.1	27
218	Comparative study of clustering methods for wake effect analysis in wind farm. <i>Energy</i> , 2016 , 95, 573-579	9	27
217	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. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 805-817	4.5	26

216	Numerical simulation of pressure pulsation effects of a snubber in a CNG station for increasing measurement accuracy. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 642-663	4.5	26
215	Adaptive neuro-fuzzy optimization of wind farm project net profit. <i>Energy Conversion and Management</i> , 2014 , 80, 229-237	10.6	26
214	Influence of clay particles on Al ₂ O ₃ and TiO ₂ nanoparticles transport and retention through limestone porous media: measurements and mechanisms. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	26
213	Comprehensive Review of Deep Reinforcement Learning Methods and Applications in Economics. <i>Mathematics</i> , 2020 , 8, 1640	2.3	26
212	A Novel Detection Algorithm to Identify False Data Injection Attacks on Power System State Estimation. <i>Energies</i> , 2019 , 12, 2209	3.1	25
211	A New K-Nearest Neighbors Classifier for Big Data Based on Efficient Data Pruning. <i>Mathematics</i> , 2020 , 8, 286	2.3	25
210	An Enhanced Distributed Data Aggregation Method in the Internet of Things. <i>Sensors</i> , 2019 , 19,	3.8	25
209	Adaptive neuro-fuzzy methodology for noise assessment of wind turbine. <i>PLoS ONE</i> , 2014 , 9, e103414	3.7	25
208	Computational intelligence intrusion detection techniques in mobile cloud computing environments: Review, taxonomy, and open research issues. <i>Journal of Information Security and Applications</i> , 2020 , 55, 102582	3.5	25
207	DistBlockBuilding: A Distributed Blockchain-Based SDN-IoT Network for Smart Building Management. <i>IEEE Access</i> , 2020 , 8, 140008-140018	3.5	25
206	An efficient routing protocol for the QoS support of large-scale MANETs. <i>International Journal of Communication Systems</i> , 2018 , 31, e3384	1.7	25
205	Resilient modulus prediction of asphalt mixtures containing Recycled Concrete Aggregate using an adaptive neuro-fuzzy methodology. <i>Construction and Building Materials</i> , 2015 , 82, 257-263	6.7	24
204	Estimation of the rutting performance of Polyethylene Terephthalate modified asphalt mixtures by adaptive neuro-fuzzy methodology. <i>Construction and Building Materials</i> , 2015 , 96, 550-555	6.7	24
203	A combined method to estimate wind speed distribution based on integrating the support vector machine with firefly algorithm. <i>Environmental Progress and Sustainable Energy</i> , 2016 , 35, 867-875	2.5	24
202	Software-Defined Cloud Computing: A Systematic Review on Latest Trends and Developments. <i>IEEE Access</i> , 2019 , 7, 93294-93314	3.5	23
201	Adaptive neuro-fuzzy estimation of optimal lens system parameters. <i>Optics and Lasers in Engineering</i> , 2014 , 55, 84-93	4.6	23
200	Survey of four models of probability density functions of wind speed and directions by adaptive neuro-fuzzy methodology. <i>Advances in Engineering Software</i> , 2014 , 76, 148-153	3.6	23
199	A cooperative expert based support vector regression (Co-ESVR) system to determine collar dimensions around bridge pier. <i>Neurocomputing</i> , 2014 , 140, 172-184	5.4	23

198	Soft-Computing Methodologies for Precipitation Estimation: A Case Study. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 1353-1358	4.7	23
197	Forecasting of Underactuated Robotic Finger Contact Forces by Support Vector Regression Methodology. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2016 , 30, 1659019	1.1	23
196	Clustering project management for drought regions determination: A case study in Serbia. <i>Agricultural and Forest Meteorology</i> , 2015 , 200, 57-65	5.8	22
195	Assessing the suitability of hybridizing the Cuckoo optimization algorithm with ANN and ANFIS techniques to predict daily evaporation. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	22
194	Factors Affecting Acceptance of Mobile Library Applications: Structural Equation Model. <i>Libri</i> , 2018 , 68, 99-112	0.4	22
193	Design and Validation of a Computational Program for Analysing Mental Maps: Aram Mental Map Analyzer. <i>Sustainability</i> , 2019 , 11, 3790	3.6	22
192	Tuberculosis disease diagnosis using artificial immune recognition system. <i>International Journal of Medical Sciences</i> , 2014 , 11, 508-14	3.7	22
191	A clustering model based on an evolutionary algorithm for better energy use in crop production. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 1921-1935	3.5	22
190	Short-Term Hydrological Drought Forecasting Based on Different Nature-Inspired Optimization Algorithms Hybridized With Artificial Neural Networks. <i>IEEE Access</i> , 2020 , 8, 15210-15222	3.5	22
189	Modeling temperature dependency of oil - water relative permeability in thermal enhanced oil recovery processes using group method of data handling and gene expression programming. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 724-743	4.5	21
188	A Cloud-Manager-Based Re-Encryption Scheme for Mobile Users in Cloud Environment: a Hybrid Approach. <i>Journal of Grid Computing</i> , 2015 , 13, 651-675	4.2	21
187	A novel enhanced exergy method in analyzing HVAC system using soft computing approaches: A case study on mushroom growing hall. <i>Journal of Building Engineering</i> , 2017 , 13, 309-318	5.2	21
186	SmartBlock-SDN: An Optimized Blockchain-SDN Framework for Resource Management in IoT. <i>IEEE Access</i> , 2021 , 9, 28361-28376	3.5	21
185	Evaluation of the most influential parameters of heat load in district heating systems. <i>Energy and Buildings</i> , 2015 , 104, 264-274	7	20
184	Fog over Virtualized IoT: New Opportunity for Context-Aware Networked Applications and a Case Study. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 1325	2.6	20
183	Predicting optimum parameters of a protective spur dike using soft computing methodologies I: A comparative study. <i>Computers and Fluids</i> , 2014 , 97, 168-176	2.8	20
182	Fractional-Order Fuzzy Control Approach for Photovoltaic/Battery Systems under Unknown Dynamics, Variable Irradiation and Temperature. <i>Electronics (Switzerland)</i> , 2020 , 9, 1455	2.6	20
181	A Novel Fractional-Order Multiple-Model Type-3 Fuzzy Control for Nonlinear Systems with Unmodeled Dynamics. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 1633	3.6	20

180	Earthquake prediction with meteorological data by particle filter-based support vector regression. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018 , 12, 679-688	4.5	20
179	SDN-IoT empowered intelligent framework for industry 4.0 applications during COVID-19 pandemic. <i>Cluster Computing</i> , 2021 , 1-18	2.1	20
178	A comparison of the performance of some extreme learning machine empirical models for predicting daily horizontal diffuse solar radiation in a region of southern Iran. <i>International Journal of Remote Sensing</i> , 2017 , 38, 6894-6909	3.1	19
177	Adaptive neuro-fuzzy prediction of grasping object weight for passively compliant gripper. <i>Applied Soft Computing Journal</i> , 2014 , 22, 424-431	7.5	19
176	Comparative Analysis of Artificial Intelligence Models for Accurate Estimation of Groundwater Nitrate Concentration. <i>Sensors</i> , 2020 , 20,	3.8	18
175	Spatial Analysis of Seasonal Precipitation over Iran: Co-Variation with Climate Indices. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 73	2.9	18
174	Limiting factors for the use of palm oil biodiesel in a diesel engine in the context of the ASTM standard. <i>Cogent Engineering</i> , 2017 , 4, 1411221	1.5	18
173	Toward generalized models for estimating molecular weights and acentric factors of pure chemical compounds. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2699-2717	6.7	18
172	The use of SVM-FFA in estimating fatigue life of polyethylene terephthalate modified asphalt mixtures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 90, 526-533	4.6	18
171	Selection of climatic parameters affecting wave height prediction using an enhanced Takagi-Sugeno-based fuzzy methodology. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 60, 246-257	16.2	18
170	Sensitivity analysis of catalyzed-transesterification as a renewable and sustainable energy production system by adaptive neuro-fuzzy methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 64, 47-58	5.3	18
169	Prediction of Daily Dewpoint Temperature Using a Model Combining the Support Vector Machine with Firefly Algorithm. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016 , 142, 04016013	1.1	18
168	Adaptive neuro-fuzzy generalization of wind turbine wake added turbulence models. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 36, 270-276	16.2	18
167	Structure, energy and cost efficiency evaluation of three different lightweight construction systems used in low-rise residential buildings. <i>Energy and Buildings</i> , 2014 , 84, 727-739	7	18
166	Training Multilayer Perceptron with Genetic Algorithms and Particle Swarm Optimization for Modeling Stock Price Index Prediction. <i>Entropy</i> , 2020 , 22,	2.8	18
165	Support vector machine firefly algorithm based optimization of lens system. <i>Applied Optics</i> , 2015 , 54, 37-45	1.7	17
164	Appraisal of adaptive neuro-fuzzy computing technique for estimating anti-obesity properties of a medicinal plant. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 118, 69-76	6.9	17
163	A systematic extreme learning machine approach to analyze visitors' thermal comfort at a public urban space. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 58, 751-760	16.2	17

162	Adaptive neuro-fuzzy estimation of building augmentation of wind turbine power. <i>Computers and Fluids</i> , 2014 , 97, 188-194	2.8	17
161	Multi-objective approach of energy efficient workflow scheduling in cloud environments. <i>Concurrency Computation Practice and Experience</i> , 2019 , 31, e4949	1.4	17
160	Intelligent Road Inspection with Advanced Machine Learning; Hybrid Prediction Models for Smart Mobility and Transportation Maintenance Systems. <i>Energies</i> , 2020 , 13, 1718	3.1	17
159	Current Status Investigation and Predicting Carbon Dioxide Emission in Latin American Countries by Connectionist Models. <i>Energies</i> , 2019 , 12, 1916	3.1	16
158	Performance Evaluation of Deep Learning-Based Gated Recurrent Units (GRUs) and Tree-Based Models for Estimating ETo by Using Limited Meteorological Variables. <i>Mathematics</i> , 2020 , 8, 972	2.3	16
157	Modeling climate change impact on wind power resources using adaptive neuro-fuzzy inference system. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 491-506	4.5	16
156	Diagnosing tuberculosis with a novel support vector machine-based artificial immune recognition system. <i>Iranian Red Crescent Medical Journal</i> , 2015 , 17, e24557	1.3	16
155	Social Capital Contributions to Food Security: A Comprehensive Literature Review. <i>Foods</i> , 2020 , 9,	4.9	16
154	Deep learned recurrent type-3 fuzzy system: Application for renewable energy modeling/prediction. <i>Energy Reports</i> , 2021 , 7, 8115-8115	4.6	16
153	Comparative analysis of kernel-based versus ANN and deep learning methods in monthly reference evapotranspiration estimation. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 603-618	5.5	16
152	Modeling Spatial Flood using Novel Ensemble Artificial Intelligence Approaches in Northern Iran. <i>Remote Sensing</i> , 2020 , 12, 3423	5	15
151	Rigorous Connectionist Models to Predict Carbon Dioxide Solubility in Various Ionic Liquids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 304	2.6	15
150	Prediction of flow characteristics in the bubble column reactor by the artificial pheromone-based communication of biological ants. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 367-378	4.5	15
149	A Combined Method of Image Processing and Artificial Neural Network for the Identification of 13 Iranian Rice Cultivars. <i>Agronomy</i> , 2020 , 10, 117	3.6	15
148	Experimental and numerical investigation of the effect of different shapes of collars on the reduction of scour around a single bridge pier. <i>PLoS ONE</i> , 2014 , 9, e98592	3.7	15
147	Applying ANN, ANFIS, and LSSVM Models for Estimation of Acid Solvent Solubility in Supercritical CO ₂		15
146	Energy-Efficient Method for Wireless Sensor Networks Low-Power Radio Operation in Internet of Things. <i>Electronics (Switzerland)</i> , 2020 , 9, 320	2.6	15
145	Comparative analysis of hybrid models of firefly optimization algorithm with support vector machines and multilayer perceptron for predicting soil temperature at different depths. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 939-953	4.5	15

144	A comparative study for estimation of wave height using traditional and hybrid soft-computing methods. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	15
143	Extreme Learning Machine-Based Model for Solubility Estimation of Hydrocarbon Gases in Electrolyte Solutions. <i>Processes</i> , 2020 , 8, 92	2.9	14
142	A hybrid computational intelligence method for predicting dew point temperature. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	14
141	An Automated System for Skeletal Maturity Assessment by Extreme Learning Machines. <i>PLoS ONE</i> , 2015 , 10, e0138493	3.7	14
140	Modeling natural gas compressibility factor using a hybrid group method of data handling. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 27-37	4.5	14
139	How parks provide thermal comfort perception in the metropolitan cores; a case study in Madrid Mediterranean climatic zone. <i>Climate Risk Management</i> , 2020 , 30, 100245	4.6	14
138	Comparative Analysis of Machine Learning Models for Prediction of Remaining Service Life of Flexible Pavement. <i>Mathematics</i> , 2019 , 7, 1198	2.3	14
137	Fuzzy logic method for the prediction of cetane number using carbon number, double bounds, iodine, and saponification values of biodiesel fuels. <i>Environmental Progress and Sustainable Energy</i> , 2019 , 38, 584-599	2.5	14
136	Hybrid auto-regressive neural network model for estimating global solar radiation in Bandar Abbas, Iran. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	13
135	An Overview of Audio Event Detection Methods from Feature Extraction to Classification. <i>Applied Artificial Intelligence</i> , 2017 , 31, 661-714	2.3	13
134	Numerical investigation of flow field and flowmeter accuracy in open-channel junctions. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2015 , 9, 280-290	4.5	13
133	Estimation of flexible pavement structural capacity using machine learning techniques. <i>Frontiers of Structural and Civil Engineering</i> , 2020 , 14, 1083-1096	2.5	13
132	. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	13
131	Assessing the proficiency of adaptive neuro-fuzzy system to estimate wind power density: Case study of Aligoodarz, Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 59, 429-435	16.2	12
130	. <i>IEEE Access</i> , 2020 , 8, 118285-118298	3.5	12
129	A novel evolutionary-negative correlated mixture of experts model in tourism demand estimation. <i>Computers in Human Behavior</i> , 2016 , 64, 641-655	7.7	12
128	Investigations of energy consumption and greenhouse gas emissions of fattening farms using artificial intelligence methods. <i>Environmental Progress and Sustainable Energy</i> , 2017 , 36, 1546-1559	2.5	11
127	Performance-based service-level agreement in cloud computing to optimise penalties and revenue. <i>IET Communications</i> , 2020 , 14, 1102-1112	1.3	11

126	Particle swarm optimization model to predict scour depth around a bridge pier. <i>Frontiers of Structural and Civil Engineering</i> , 2020 , 14, 855-866	2.5	11
125	FCS-MBFLEACH: Designing an Energy-Aware Fault Detection System for Mobile Wireless Sensor Networks. <i>Mathematics</i> , 2020 , 8, 28	2.3	11
124	Software SMEs' unofficial readiness for CMMI [®] -based software process improvement. <i>Software Quality Journal</i> , 2016 , 24, 997-1023	1.2	11
123	Strategic Behavior of Retailers for Risk Reduction and Profit Increment via Distributed Generators and Demand Response Programs. <i>Energies</i> , 2018 , 11, 1602	3.1	11
122	Predicting turbulent flow friction coefficient using ANFIS technique. <i>Signal, Image and Video Processing</i> , 2017 , 11, 341-347	1.6	11
121	Key management paradigm for mobile secure group communications: Issues, solutions, and challenges. <i>Computer Communications</i> , 2015 , 72, 1-16	5.1	11
120	Modeling Daily Pan Evaporation in Humid Climates Using Gaussian Process Regression		11
119	Machine Learning for Prediction of Energy in Wheat Production. <i>Agriculture (Switzerland)</i> , 2020 , 10, 517-3		11
118	Derivation of Optimized Equations for Estimation of Dispersion Coefficient in Natural Streams Using Hybridized ANN With PSO and CSO Algorithms. <i>IEEE Access</i> , 2020 , 8, 156582-156599	3.5	11
117	A Lightweight Radio Propagation Model for Vehicular Communication in Road Tunnels. <i>PLoS ONE</i> , 2016 , 11, e0152727	3.7	11
116	Comparative study of multilayer perceptron-stochastic gradient descent and gradient boosted trees for predicting daily suspended sediment load: The case study of the Mississippi River, U.S.. <i>International Journal of Sediment Research</i> , 2021 , 36, 512-523	3	11
115	Groundwater level prediction in arid areas using wavelet analysis and Gaussian process regression. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1147-1158	4.5	11
114	A comparative study and workload distribution model for re-encryption schemes in a mobile cloud computing environment. <i>International Journal of Communication Systems</i> , 2017 , 30, e3308	1.7	10
113	Limiting factors for biogas production from cow manure: energo-environmental approach. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 954-966	4.5	10
112	A Soft-Rough Set Based Approach for Handling Contextual Sparsity in Context-Aware Video Recommender Systems. <i>Mathematics</i> , 2019 , 7, 740	2.3	10
111	2-Phase NSGA II: An Optimized Reward and Risk Measurements Algorithm in Portfolio Optimization. <i>Algorithms</i> , 2017 , 10, 130	1.8	10
110	Comparative Analysis of Machine Learning Models for Nanofluids Viscosity Assessment. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
109	A simulation model for visitors' thermal comfort at urban public squares using non-probabilistic binary-linear classifier through soft-computing methodologies. <i>Energy</i> , 2016 , 101, 568-580	7.9	10

108	Estimation of Wind-Driven Coastal Waves Near a Mangrove Forest Using Adaptive Neuro-Fuzzy Inference System. <i>Water Resources Management</i> , 2016 , 30, 2391-2404	3.7	10
107	A Survey on Obstacle Modeling Patterns in Radio Propagation Models for Vehicular Ad Hoc Networks. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 1385-1407		9
106	Prediction of ultrasonic pulse velocity for enhanced peat bricks using adaptive neuro-fuzzy methodology. <i>Ultrasonics</i> , 2015 , 61, 103-13	3.5	9
105	Potential of adaptive neuro-fuzzy inference system for evaluation of drought indices. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015 , 29, 1993-2002	3.5	9
104	Improvements in the Explicit Estimation of Pollutant Dispersion Coefficient in Rivers by Subset Selection of Maximum Dissimilarity Hybridized With ANFIS-Firefly Algorithm (FFA). <i>IEEE Access</i> , 2020 , 8, 60314-60337	3.5	9
103	An Enhanced Distributed Congestion Control Method for Classical 6LoWPAN Protocols Using Fuzzy Decision System. <i>IEEE Access</i> , 2020 , 8, 20628-20645	3.5	9
102	A novel bias correction framework of TMPA 3B42 daily precipitation data using similarity matrix/homogeneous conditions. <i>Science of the Total Environment</i> , 2019 , 694, 133680	10.2	9
101	Thermodynamic Assessment and Multi-Objective Optimization of Performance of Irreversible Dual-Miller Cycle. <i>Energies</i> , 2019 , 12, 4000	3.1	9
100	Developing a Data Mining Based Model to Extract Predictor Factors in Energy Systems: Application of Global Natural Gas Demand. <i>Energies</i> , 2019 , 12, 4124	3.1	9
99	Developing an ANFIS-PSO Model to Estimate Mercury Emission in Combustion Flue Gases		9
98	Adaptation of ANFIS model to assess thermal comfort of an urban square in moderate and dry climate. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016 , 30, 1189-1203	3.5	9
97	An effective Enterprise Architecture Implementation Methodology. <i>Information Systems and E-Business Management</i> , 2017 , 15, 927-962	2.6	8
96	Applying the remotely sensed data to identify homogeneous regions of watersheds using a pixel-based classification approach. <i>Applied Geography</i> , 2019 , 111, 102071	4.4	8
95	Robust image watermarking based on Riesz transformation and IT2FLS. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 74, 116-129	4.6	8
94	Influence of introducing various meteorological parameters to the Angström-Prescott model for estimation of global solar radiation. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	8
93	Adaptive Neuro-Fuzzy Appraisal of Plasmonic Studies on Morphology of Deposited Silver Thin Films Having Different Thicknesses. <i>Plasmonics</i> , 2014 , 9, 1189-1196	2.4	8
92	Prediction of Flow Characteristics in the Bubble Column Reactor by the Artificial Pheromone-Based Communication of Biological Ants		8
91	Groundwater Quality Assessment for Drinking and Agricultural Purposes in Tabriz Aquifer, Iran		8

90	Potential of kernel and tree-based machine-learning models for estimating missing data of rainfall. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 1078-1094	4.5	8
89	Estimation of Tsunami Bore Forces on a Coastal Bridge Using an Extreme Learning Machine. <i>Entropy</i> , 2016 , 18, 167	2.8	8
88	Optimising infrastructure as a service provider revenue through customer satisfaction and efficient resource provisioning in cloud computing. <i>IET Communications</i> , 2019 , 13, 2913-2922	1.3	8
87	Spent mushroom compost (SMC) as a source for biogas production in Iran. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 967-982	4.5	7
86	Comparative Study of Soft Computing Methodologies for Energy Input/Output Analysis to Predict Potato Production. <i>American Journal of Potato Research</i> , 2015 , 92, 426-434	2.1	7
85	Potential of support vector regression for optimization of lens system. <i>CAD Computer Aided Design</i> , 2015 , 62, 57-63	2.9	7
84	A survey of educational games as interaction design tools for affective learning: Thematic analysis taxonomy. <i>Education and Information Technologies</i> , 2018 , 23, 393-418	3.6	7
83	Improved side weir discharge coefficient modeling by adaptive neuro-fuzzy methodology. <i>KSCE Journal of Civil Engineering</i> , 2016 , 20, 2999-3005	1.9	7
82	Predicting the reference evapotranspiration based on tensor decomposition. <i>Theoretical and Applied Climatology</i> , 2017 , 130, 1099-1109	3	7
81	Anomaly Detection Using Cooperative Fuzzy Logic Controller. <i>Communications in Computer and Information Science</i> , 2013 , 220-231	0.3	7
80	Calculating Filament Feed in the Fused Deposition Modeling Process to Correctly Print Continuous Fiber Composites in Curved Paths. <i>Materials</i> , 2020 , 13,	3.5	7
79	Smart Structural Health Monitoring of Flexible Pavements Using Machine Learning Methods. <i>Coatings</i> , 2020 , 10, 1100	2.9	7
78	Monthly streamflow prediction using a hybrid stochastic-deterministic approach for parsimonious non-linear time series modeling. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 1351-1372	4.5	7
77	Optimization of energy consumption in wireless sensor networks using density-based clustering algorithm. <i>International Journal of Computers and Applications</i> , 2021 , 43, 1-10	0.8	7
76	KGSA: A Gravitational Search Algorithm for Multimodal Optimization based on K-Means Niching Technique and a Novel Elitism Strategy. <i>Open Mathematics</i> , 2018 , 16, 1582-1606	0.8	7
75	RAIRS2 a new expert system for diagnosing tuberculosis with real-world tournament selection mechanism inside artificial immune recognition system. <i>Medical and Biological Engineering and Computing</i> , 2016 , 54, 385-99	3.1	6
74	Hybrid intelligent model for approximating unconfined compressive strength of cement-based bricks with odd-valued array of peat content (0-9%). <i>Powder Technology</i> , 2015 , 284, 560-570	5.2	6
73	Using multi-attribute decision-making approaches in the selection of a hospital management system. <i>Technology and Health Care</i> , 2018 , 26, 279-295	1.1	6

72	Application and economic viability of wind turbine installation in Lutak, Iran. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	6
71	Reputation-Based Approach Toward Web Content Credibility Analysis. <i>IEEE Access</i> , 2019 , 7, 139957-139969	3.9	6
70	Calculation of optimal induction heater capacitance based on the smart bacterial foraging algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 61, 326-334	5.1	6
69	Adaptive Neuro-Fuzzy Evaluation of the Tapered Plastic Multimode Fiber-Based Sensor Performance With and Without Silver Thin Film for Different Concentrations of Calcium Hypochlorite. <i>IEEE Sensors Journal</i> , 2014 , 14, 3579-3584	4	6
68	Estimating CO ₂ -Brine diffusivity using hybrid models of ANFIS and evolutionary algorithms. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020 , 14, 818-834	4.5	6
67	Hydrological Hazards in a Changing Environment: Early Warning, Forecasting, and Impact Assessment. <i>Advances in Meteorology</i> , 2016 , 2016, 1-2	1.7	6
66	Predicting soil electrical conductivity using multi-layer perceptron integrated with grey wolf optimizer. <i>Journal of Geochemical Exploration</i> , 2021 , 220, 106639	3.8	6
65	Combination of Group Method of Data Handling (GMDH) and Computational Fluid Dynamics (CFD) for Prediction of Velocity in Channel Intake. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7521	2.6	5
64	Finding rising stars in bibliometric networks. <i>Scientometrics</i> , 2020 , 124, 633-661	3	5
63	Impact Evaluation of Electric Vehicle Parking on Solving Security-Constrained Unit Commitment Problem. <i>Mathematical and Computational Applications</i> , 2018 , 23, 13	1	5
62	On the estimation of higher heating value of municipal wastes using soft computing approaches. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-9	1.6	5
61	Neuro-fuzzy method for predicting the viability of stem cells treated at different time-concentration conditions. <i>Technology and Health Care</i> , 2017 , 25, 1041-1051	1.1	5
60	Comparison of machine learning techniques for predicting porosity of chalk. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 209, 109853	4.4	5
59	Deep Learning for Stock Market Prediction 2020 ,		5
58	Machine Learning for Modeling the Singular Multi-Pantograph Equations. <i>Entropy</i> , 2020 , 22,	2.8	5
57	A Model for Locating Tall Buildings through a Visual Analysis Approach. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6072	2.6	5
56	Dimension Reduction of Machine Learning-Based Forecasting Models Employing Principal Component Analysis. <i>Mathematics</i> , 2020 , 8, 1233	2.3	5
55	Moisture Estimation in Cabinet Dryers with Thin-Layer Relationships Using a Genetic Algorithm and Neural Network. <i>Mathematics</i> , 2019 , 7, 1042	2.3	5

54	Hybrid model of support vector regression and fruitfly optimization algorithm for predicting ski-jump spillway scour geometry. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 272-291	4.5	5
53	Evaluating the potential of offshore wind energy in the Gulf of Oman using the MENA-CORDEX wind speed data simulations. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 613-626	4.5	5
52	Optimization of performance and emission of compression ignition engine fueled with propylene glycol and biodiesel/diesel blends using artificial intelligence method of ANN-GA-RSM. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 413-425	4.5	5
51	Performance investigation of the dam intake physical hydraulic model using Support Vector Machine with a discrete wavelet transform algorithm. <i>Computers and Electronics in Agriculture</i> , 2017 , 140, 48-57	6.5	4
50	Modeling sediment transport around a rectangular bridge abutment. <i>Environmental Fluid Mechanics</i> , 2015 , 15, 1105-1114	2.2	4
49	Application of extreme learning machine for prediction of aqueous solubility of carbon dioxide. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	4
48	Developing a mathematical framework in preliminary designing of detention rockfill dams for flood peak reduction. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 1119-1129	4.5	4
47	Optimization of solvent composition and injection rate in vapour extraction process. <i>Journal of Petroleum Science and Engineering</i> , 2015 , 128, 33-43	4.4	4
46	Demand Prediction with Machine Learning Models; State of the Art and a Systematic Review of Advances		4
45	Groundwater Quality Assessment for Drinking and Agricultural Purposes in Tabriz Aquifer, Iran		4
44	Evaluating the Efficiency of Different Regression, Decision Tree, and Bayesian Machine Learning Algorithms in Spatial Piping Erosion Susceptibility Using ALOS/PALSAR Data. <i>Land</i> , 2020 , 9, 346	3.5	4
43	LAAPS: an efficient file-based search in unstructured peer-to-peer networks using reinforcement algorithm. <i>International Journal of Computers and Applications</i> , 2021 , 43, 62-69	0.8	4
42	An integrated machine learning, noise suppression, and population-based algorithm to improve total dissolved solids prediction. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 251-271	4.5	4
41	Neuro-fuzzy estimation of passive robotic joint safe velocity with embedded sensors of conductive silicone rubber. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 486-498	7.8	3
40	Evaluating the legibility of decorative arabic scripts for Sultan Alauddin mosque using an enhanced soft-computing hybrid algorithm. <i>Computers in Human Behavior</i> , 2016 , 55, 127-144	7.7	3
39	An Improved Digital Signature Protocol to Multi-User Broadcast Authentication Based on Elliptic Curve Cryptography in Wireless Sensor Networks (WSNs). <i>Mathematical and Computational Applications</i> , 2018 , 23, 17	1	3
38	An optimized magnetostatic field solver on GPU using open computing language. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e3981	1.4	3
37	Adaptive Neuro-Fuzzy Determination of the Effect of Experimental Parameters on Vehicle Agent Speed Relative to Vehicle Intruder. <i>PLoS ONE</i> , 2016 , 11, e0155697	3.7	3

36	Prediction of Flow Characteristics in the Bubble Column Reactor by the Artificial Pheromone-Based Communication of Biological Ants		3
35	Comprehensive Review of Deep Reinforcement Learning Methods and Applications in Economics		3
34	Optimization Algorithm for Reduction the Size of Dixon Resultant Matrix: A Case Study on Mechanical Application. <i>Computers, Materials and Continua</i> , 2019 , 58, 567-583	3.9	3
33	Smart models for predicting under-saturated crude oil viscosity: a comparative study. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 41, 2326-2333	1.6	3
32	The particle filter-based back propagation neural network for evapotranspiration estimation. <i>ISH Journal of Hydraulic Engineering</i> , 2020 , 26, 267-272	1.5	3
31	Effects of low-level hydroxy as a gaseous additive on performance and emission characteristics of a dual fuel diesel engine fueled by diesel/biodiesel blends. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 236-250	4.5	3
30	Examination of tapered plastic multimode fiber-based sensor performance with silver coating for different concentrations of calcium hypochlorite by soft computing methodologies--a comparative study. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 1023-30	1.8	2
29	Modulation transfer function estimation of optical lens system by adaptive neuro-fuzzy methodology. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2014 , 117, 121-131	2.7	2
28	Fuzzy-Based Sentiment Analysis System for Analyzing Student Feedback and Satisfaction		2
27	Extreme Learning Machine-Based Model for Solubility Estimation of Hydrocarbon Gases in Electrolyte Solutions		2
26	Evaluation of Electrical Efficiency of Photovoltaic Thermal Solar Collector		2
25	Evaluation of the accuracy of soft computing learning algorithms in performance prediction of tidal turbine. <i>Energy Science and Engineering</i> , 2021 , 9, 633-644	3.4	2
24	Modeling of carbon dioxide solubility in ionic liquids based on group method of data handling. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 23-42	4.5	2
23	Predictive Modeling the Free Hydraulic Jumps Pressure through Advanced Statistical Methods. <i>Mathematics</i> , 2020 , 8, 323	2.3	2
22	Using soft computing and machine learning algorithms to predict the discharge coefficient of curved labyrinth overflows. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1002-1015	4.5	2
21	Towards an integrative, spatially-explicit modeling for flash floods susceptibility mapping based on remote sensing and flood inventory data in Southern Caspian Sea Littoral, Iran. <i>Geocarto International</i> , 1-24	2.7	2
20	Historical path of traditional and modern idea of "conscious universe" <i>Quality and Quantity</i> , 2017 , 51, 1183-1195	2.4	1
19	The Impact of the Implementation Cost of Replication in Data Grid Job Scheduling. <i>Mathematical and Computational Applications</i> , 2018 , 23, 28	1	1

18	Introducing ToPe-FFT: An OpenCL-based FFT library targeting GPUs. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e4256	1.4	1
17	Application of an adaptive neural-fuzzy system to establish a relationship among nonlinear phenomena in meteorology to obtain monthly rainfall 2010 ,		1
16	Game theory and evolutionary optimization approaches applied to resource allocation problems in computing environments: A survey. <i>Mathematical Biosciences and Engineering</i> , 2021 , 18, 9190-9232	2.1	1
15	Study on IoT for SARS-CoV-2 with healthcare: present and future perspective. <i>Mathematical Biosciences and Engineering</i> , 2021 , 18, 9697-9726	2.1	1
14	Hydrocarbons density estimates for a wide range of conditions using RBF-ANN and ANFIS strategies. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-9	1.6	1
13	An intelligent memory caching architecture for data-intensive multimedia applications. <i>Multimedia Tools and Applications</i> , 2021 , 80, 16743-16761	2.5	1
12	Exploring the RFID mutual authentication domain. <i>International Journal of Computers and Applications</i> , 2021 , 43, 127-141	0.8	1
11	Different scenarios of glycerin conversion to combustible products and their effects on compression ignition engine as fuel additive: a review. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1191-1228	4.5	1
10	Target-DBPPred: An intelligent model for prediction of DNA-binding proteins using discrete wavelet transform based compression and light eXtreme gradient boosting.. <i>Computers in Biology and Medicine</i> , 2022 , 145, 105533	7	1
9	Using computational-intelligence algorithms and remote sensing data to optimize the locations of check dams to control sediment and runoff in Kandolus watershed, Mazandaran, Iran. <i>Geocarto International</i> , 1-21	2.7	1
8	Robust computational approach to determine the safe mud weight window using well-log data from a large gas reservoir. <i>Marine and Petroleum Geology</i> , 2022 , 105772	4.7	1
7	Designing a committee of machines for modeling viscosity of water-based nanofluids. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1967-1987	4.5	0
6	CNN-KCL: Automatic myocarditis diagnosis using convolutional neural network combined with k-means clustering.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 2381-2402	2.1	0
5	Image Analysis Using Human Body Geometry and Size Proportion Science for Action Classification. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5453	2.6	0
4	An Introduction to Remote Installation Vulnerability in Content Management Systems. <i>International Journal of Secure Software Engineering</i> , 2015 , 6, 52-63		
3	Control of Crisis Environments by the Use of WSN Structures and Based on Expert-SOA Architecture. <i>Advanced Materials Research</i> , 2011 , 383-390, 4629-4633	0.5	
2	Diffusion analysis with high and low concentration regions by the finite difference method, the adaptive network-based fuzzy inference system, and the bilayered neural network method. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021 , 15, 1392-1399	4.5	
1	Oil Family Typing Using a Hybrid Model of Self-Organizing Maps and Artificial Neural Networks.. <i>ACS Omega</i> , 2022 , 7, 11578-11586	3.9	

