

Binh Thai Pham

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

211
papers

9,876
citations

60
h-index

90
g-index

213
ext. papers

12,848
ext. citations

3.7
avg, IF

7.2
L-index

#	Paper	IF	Citations
211	Hybrid integration of Multilayer Perceptron Neural Networks and machine learning ensembles for landslide susceptibility assessment at Himalayan area (India) using GIS. <i>Catena</i> , 2017 , 149, 52-63	5.8	330
210	A comparative assessment of decision trees algorithms for flash flood susceptibility modeling at Haraz watershed, northern Iran. <i>Science of the Total Environment</i> , 2018 , 627, 744-755	10.2	326
209	A comparative study of different machine learning methods for landslide susceptibility assessment: A case study of Uttarakhand area (India). <i>Environmental Modelling and Software</i> , 2016 , 84, 240-250	5.2	289
208	A novel hybrid artificial intelligence approach for flood susceptibility assessment. <i>Environmental Modelling and Software</i> , 2017 , 95, 229-245	5.2	272
207	Landslide susceptibility mapping using J48 Decision Tree with AdaBoost, Bagging and Rotation Forest ensembles in the Guangchang area (China). <i>Catena</i> , 2018 , 163, 399-413	5.8	246
206	A comparative assessment of flood susceptibility modeling using Multi-Criteria Decision-Making Analysis and Machine Learning Methods. <i>Journal of Hydrology</i> , 2019 , 573, 311-323	6	228
205	Assessment of advanced random forest and decision tree algorithms for modeling rainfall-induced landslide susceptibility in the Izu-Oshima Volcanic Island, Japan. <i>Science of the Total Environment</i> , 2019 , 662, 332-346	10.2	226
204	Landslide susceptibility assessment in the Uttarakhand area (India) using GIS: a comparison study of prediction capability of naïve bayes, multilayer perceptron neural networks, and functional trees methods. <i>Theoretical and Applied Climatology</i> , 2017 , 128, 255-273	3	195
203	GIS-based modeling of rainfall-induced landslides using data mining-based functional trees classifier with AdaBoost, Bagging, and MultiBoost ensemble frameworks. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	171
202	Shallow landslide susceptibility assessment using a novel hybrid intelligence approach. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	165
201	Landslide susceptibility modeling using Reduced Error Pruning Trees and different ensemble techniques: Hybrid machine learning approaches. <i>Catena</i> , 2019 , 175, 203-218	5.8	157
200	Meta optimization of an adaptive neuro-fuzzy inference system with grey wolf optimizer and biogeography-based optimization algorithms for spatial prediction of landslide susceptibility. <i>Catena</i> , 2019 , 175, 430-445	5.8	143
199	Spatial prediction of landslides using a hybrid machine learning approach based on Random Subspace and Classification and Regression Trees. <i>Geomorphology</i> , 2018 , 303, 256-270	4.3	129
198	Improved landslide assessment using support vector machine with bagging, boosting, and stacking ensemble machine learning framework in a mountainous watershed, Japan. <i>Landslides</i> , 2020 , 17, 641-658	6.6	125
197	Flash flood susceptibility modeling using an optimized fuzzy rule based feature selection technique and tree based ensemble methods. <i>Science of the Total Environment</i> , 2019 , 668, 1038-1054	10.2	117
196	A spatially explicit deep learning neural network model for the prediction of landslide susceptibility. <i>Catena</i> , 2020 , 188, 104451	5.8	115
195	Artificial Intelligence Approaches for Prediction of Compressive Strength of Geopolymer Concrete. <i>Materials</i> , 2019 , 12,	3.5	112

194	A novel hybrid intelligent model of support vector machines and the MultiBoost ensemble for landslide susceptibility modeling. <i>Bulletin of Engineering Geology and the Environment</i> , 2019 , 78, 2865-2886	4	111
193	Landslide Susceptibility Modeling Based on GIS and Novel Bagging-Based Kernel Logistic Regression. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2540	2.6	108
192	Spatial prediction of rainfall-induced shallow landslides using hybrid integration approach of Least-Squares Support Vector Machines and differential evolution optimization: a case study in Central Vietnam. <i>International Journal of Digital Earth</i> , 2016 , 9, 1077-1097	3.9	103
191	A hybrid machine learning ensemble approach based on a Radial Basis Function neural network and Rotation Forest for landslide susceptibility modeling: A case study in the Himalayan area, India. <i>International Journal of Sediment Research</i> , 2018 , 33, 157-170	3	102
190	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. <i>Sensors</i> , 2018 , 18,	3.8	100
189	Mapping Groundwater Potential Using a Novel Hybrid Intelligence Approach. <i>Water Resources Management</i> , 2019 , 33, 281-302	3.7	97
188	Prediction Success of Machine Learning Methods for Flash Flood Susceptibility Mapping in the Tafresh Watershed, Iran. <i>Sustainability</i> , 2019 , 11, 5426	3.6	95
187	A comparison study of DRASTIC methods with various objective methods for groundwater vulnerability assessment. <i>Science of the Total Environment</i> , 2018 , 642, 1032-1049	10.2	95
186	Prediction of shear strength of soft soil using machine learning methods. <i>Catena</i> , 2018 , 166, 181-191	5.8	93
185	A novel artificial intelligence approach based on Multi-layer Perceptron Neural Network and Biogeography-based Optimization for predicting coefficient of consolidation of soil. <i>Catena</i> , 2019 , 173, 302-311	5.8	92
184	Hybrid Machine Learning Approaches for Landslide Susceptibility Modeling. <i>Forests</i> , 2019 , 10, 157	2.8	91
183	Development of artificial intelligence models for the prediction of Compression Coefficient of soil: An application of Monte Carlo sensitivity analysis. <i>Science of the Total Environment</i> , 2019 , 679, 172-184	10.2	90
182	Rotation forest fuzzy rule-based classifier ensemble for spatial prediction of landslides using GIS. <i>Natural Hazards</i> , 2016 , 83, 97-127	3	89
181	Landslide Susceptibility Assessment by Novel Hybrid Machine Learning Algorithms. <i>Sustainability</i> , 2019 , 11, 4386	3.6	87
180	Assessing Dynamic Conditions of the Retaining Wall: Developing Two Hybrid Intelligent Models. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1042	2.6	87
179	A Comparative Study of Least Square Support Vector Machines and Multiclass Alternating Decision Trees for Spatial Prediction of Rainfall-Induced Landslides in a Tropical Cyclones Area. <i>Geotechnical and Geological Engineering</i> , 2016 , 34, 1807-1824	1.5	85
178	Landslide Susceptibility Mapping Using Different GIS-Based Bivariate Models. <i>Water (Switzerland)</i> , 2019 , 11, 1402	3	82
177	Flood Spatial Modeling in Northern Iran Using Remote Sensing and GIS: A Comparison between Evidential Belief Functions and Its Ensemble with a Multivariate Logistic Regression Model. <i>Remote Sensing</i> , 2019 , 11, 1589	5	82

176	Evaluating scale effects of topographic variables in landslide susceptibility models using GIS-based machine learning techniques. <i>Scientific Reports</i> , 2019 , 9, 12296	4.9	80
175	A novel hybrid integration model using support vector machines and random subspace for weather-triggered landslide susceptibility assessment in the Wuning area (China). <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	79
174	Evaluating GIS-Based Multiple Statistical Models and Data Mining for Earthquake and Rainfall-Induced Landslide Susceptibility Using the LiDAR DEM. <i>Remote Sensing</i> , 2019 , 11, 638	5	79
173	A novel hybrid approach of Bayesian Logistic Regression and its ensembles for landslide susceptibility assessment. <i>Geocarto International</i> , 2019 , 34, 1427-1457	2.7	79
172	A novel hybrid approach of landslide susceptibility modelling using rotation forest ensemble and different base classifiers. <i>Geocarto International</i> , 2020 , 35, 1267-1292	2.7	79
171	A comparative study between popular statistical and machine learning methods for simulating volume of landslides. <i>Catena</i> , 2017 , 157, 213-226	5.8	77
170	Different sampling strategies for predicting landslide susceptibilities are deemed less consequential with deep learning. <i>Science of the Total Environment</i> , 2020 , 720, 137320	10.2	75
169	Bagging based Support Vector Machines for spatial prediction of landslides. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	75
168	Landslide Susceptibility Assessment Using Bagging Ensemble Based Alternating Decision Trees, Logistic Regression and J48 Decision Trees Methods: A Comparative Study. <i>Geotechnical and Geological Engineering</i> , 2017 , 35, 2597-2611	1.5	73
167	Wildfire spatial pattern analysis in the Zagros Mountains, Iran: A comparative study of decision tree based classifiers. <i>Ecological Informatics</i> , 2018 , 43, 200-211	4.2	73
166	Shallow Landslide Susceptibility Mapping: A Comparison between Logistic Model Tree, Logistic Regression, Naïve Bayes Tree, Artificial Neural Network, and Support Vector Machine Algorithms. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	73
165	Soft Computing Ensemble Models Based on Logistic Regression for Groundwater Potential Mapping. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2469	2.6	71
164	Hybrid computational intelligence models for groundwater potential mapping. <i>Catena</i> , 2019 , 182, 10410518	5.18	69
163	GIS Based Hybrid Computational Approaches for Flash Flood Susceptibility Assessment. <i>Water (Switzerland)</i> , 2020 , 12, 683	3	69
162	Prediction of ground vibration induced by blasting operations through the use of the Bayesian Network and random forest models. <i>Soil Dynamics and Earthquake Engineering</i> , 2020 , 139, 106390	3.5	68
161	A Sensitivity and Robustness Analysis of GPR and ANN for High-Performance Concrete Compressive Strength Prediction Using a Monte Carlo Simulation. <i>Sustainability</i> , 2020 , 12, 830	3.6	67
160	A Novel Integrated Approach of Relevance Vector Machine Optimized by Imperialist Competitive Algorithm for Spatial Modeling of Shallow Landslides. <i>Remote Sensing</i> , 2018 , 10, 1538	5	67
159	Meteorological data mining and hybrid data-intelligence models for reference evaporation simulation: A case study in Iraq. <i>Computers and Electronics in Agriculture</i> , 2019 , 167, 105041	6.5	66

158	A comparison of Support Vector Machines and Bayesian algorithms for landslide susceptibility modelling. <i>Geocarto International</i> , 2019 , 34, 1385-1407	2.7	64
157	Application and Comparison of Decision Tree-Based Machine Learning Methods in Landside Susceptibility Assessment at Pauri Garhwal Area, Uttarakhand, India. <i>Environmental Processes</i> , 2017 , 4, 711-730	2.8	64
156	Development of advanced artificial intelligence models for daily rainfall prediction. <i>Atmospheric Research</i> , 2020 , 237, 104845	5.4	63
155	A comparative study of sequential minimal optimization-based support vector machines, vote feature intervals, and logistic regression in landslide susceptibility assessment using GIS. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	62
154	Prediction of Compressive Strength of Geopolymer Concrete Using Entirely Steel Slag Aggregates: Novel Hybrid Artificial Intelligence Approaches. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1113	2.6	62
153	A novel ensemble classifier of rotation forest and Naïve Bayes for landslide susceptibility assessment at the Luc Yen district, Yen Bai Province (Viet Nam) using GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 649-671	3.6	61
152	New Ensemble Models for Shallow Landslide Susceptibility Modeling in a Semi-Arid Watershed. <i>Forests</i> , 2019 , 10, 743	2.8	60
151	A Novel Ensemble Artificial Intelligence Approach for Gully Erosion Mapping in a Semi-Arid Watershed (Iran). <i>Sensors</i> , 2019 , 19,	3.8	60
150	Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm. <i>Remote Sensing</i> , 2019 , 11, 931	5	58
149	Improvement of Best First Decision Trees Using Bagging and Dagging Ensembles for Flood Probability Mapping. <i>Water Resources Management</i> , 2020 , 34, 3037-3053	3.7	57
148	Shallow Landslide Susceptibility Mapping by Random Forest Base Classifier and Its Ensembles in a Semi-Arid Region of Iran. <i>Forests</i> , 2020 , 11, 421	2.8	53
147	Spatial Prediction of Rainfall-Induced Landslides Using Aggregating One-Dependence Estimators Classifier 2018 , 46, 1457-1470		53
146	Hybrid Artificial Intelligence Approaches for Predicting Critical Buckling Load of Structural Members under Compression Considering the Influence of Initial Geometric Imperfections. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2258	2.6	52
145	Improvement of ANFIS Model for Prediction of Compressive Strength of Manufactured Sand Concrete. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3841	2.6	51
144	Determination of compound channel apparent shear stress: application of novel data mining models. <i>Journal of Hydroinformatics</i> , 2019 , 21, 798-811	2.6	49
143	A novel hybrid model of Bagging-based Naïve Bayes Trees for landslide susceptibility assessment. <i>Bulletin of Engineering Geology and the Environment</i> , 2019 , 78, 1911-1925	4	48
142	Hybrid Artificial Intelligence Approaches for Predicting Buckling Damage of Steel Columns Under Axial Compression. <i>Materials</i> , 2019 , 12,	3.5	47
141	Prediction and Sensitivity Analysis of Bubble Dissolution Time in 3D Selective Laser Sintering Using Ensemble Decision Trees. <i>Materials</i> , 2019 , 12,	3.5	47

140	Application of artificial neural networks for predicting tree survival and mortality in the Hyrcanian forest of Iran. <i>Computers and Electronics in Agriculture</i> , 2019 , 164, 104929	6.5	46
139	Landslide Hazard Assessment Using Random SubSpace Fuzzy Rules Based Classifier Ensemble and Probability Analysis of Rainfall Data: A Case Study at Mu Cang Chai District, Yen Bai Province (Viet Nam) 2017 , 45, 673-683		46
138	Performance Evaluation of Machine Learning Methods for Forest Fire Modeling and Prediction. <i>Symmetry</i> , 2020 , 12, 1022	2.7	45
137	A Novel Hybrid Soft Computing Model Using Random Forest and Particle Swarm Optimization for Estimation of Undrained Shear Strength of Soil. <i>Sustainability</i> , 2020 , 12, 2218	3.6	45
136	Development of a Novel Hybrid Intelligence Approach for Landslide Spatial Prediction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2824	2.6	45
135	A Hybrid Computational Intelligence Approach to Groundwater Spring Potential Mapping. <i>Water (Switzerland)</i> , 2019 , 11, 2013	3	45
134	Evaluation and comparison of LogitBoost Ensemble, Fisher's Linear Discriminant Analysis, logistic regression and support vector machines methods for landslide susceptibility mapping. <i>Geocarto International</i> , 2019 , 34, 316-333	2.7	45
133	Novel Entropy and Rotation Forest-Based Credal Decision Tree Classifier for Landslide Susceptibility Modeling. <i>Entropy</i> , 2019 , 21,	2.8	44
132	GIS-Based Gully Erosion Susceptibility Mapping: A Comparison of Computational Ensemble Data Mining Models. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2039	2.6	44
131	Optimization of Artificial Intelligence System by Evolutionary Algorithm for Prediction of Axial Capacity of Rectangular Concrete Filled Steel Tubes under Compression. <i>Materials</i> , 2020 , 13,	3.5	44
130	Investigation and Optimization of the C-ANN Structure in Predicting the Compressive Strength of Foamed Concrete. <i>Materials</i> , 2020 , 13,	3.5	44
129	Development of an AI Model to Measure Traffic Air Pollution from Multisensor and Weather Data. <i>Sensors</i> , 2019 , 19,	3.8	44
128	Groundwater Potential Mapping Combining Artificial Neural Network and Real AdaBoost Ensemble Technique: The DakNong Province Case-study, Vietnam. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	44
127	Inferring air pollution from air quality index by different geographical areas: case study in India. <i>Air Quality, Atmosphere and Health</i> , 2019 , 12, 1347-1357	5.6	43
126	Optimization of an adaptive neuro-fuzzy inference system for groundwater potential mapping. <i>Hydrogeology Journal</i> , 2019 , 27, 2511-2534	3.1	43
125	Soil erosion potential hotspot zone identification using machine learning and statistical approaches in eastern India. <i>Natural Hazards</i> , 2020 , 104, 1259-1294	3	43
124	Landslide susceptibility modeling using different artificial intelligence methods: a case study at Muong Lay district, Vietnam. <i>Geocarto International</i> , 2019 , 1-24	2.7	42
123	Coupling RBF neural network with ensemble learning techniques for landslide susceptibility mapping. <i>Catena</i> , 2020 , 195, 104805	5.8	42

122	Influence of Data Splitting on Performance of Machine Learning Models in Prediction of Shear Strength of Soil. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-15	1.1	42
121	Novel approach for forecasting the blast-induced AOp using a hybrid fuzzy system and firefly algorithm. <i>Engineering With Computers</i> , 2020 , 36, 703-712	4.5	41
120	Adaptive Network Based Fuzzy Inference System with Meta-Heuristic Optimizations for International Roughness Index Prediction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4715	2.6	40
119	Flocculation-dewatering prediction of fine mineral tailings using a hybrid machine learning approach. <i>Chemosphere</i> , 2020 , 244, 125450	8.4	39
118	A Novel Intelligent ELM-BBO Technique for Predicting Distance of Mine Blasting-Induced Flyrock. <i>Natural Resources Research</i> , 2020 , 29, 4103-4120	4.9	38
117	A Comparative Study of Kernel Logistic Regression, Radial Basis Function Classifier, Multinomial Naïve Bayes, and Logistic Model Tree for Flash Flood Susceptibility Mapping. <i>Water (Switzerland)</i> , 2020 , 12, 239	3	36
116	Torrential rainfall-triggered shallow landslide characteristics and susceptibility assessment using ensemble data-driven models in the Dongjiang Reservoir Watershed, China. <i>Natural Hazards</i> , 2019 , 97, 579-609	3	35
115	Development of Hybrid Artificial Intelligence Approaches and a Support Vector Machine Algorithm for Predicting the Marshall Parameters of Stone Matrix Asphalt. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3172	2.6	33
114	Extreme Learning Machine Based Prediction of Soil Shear Strength: A Sensitivity Analysis Using Monte Carlo Simulations and Feature Backward Elimination. <i>Sustainability</i> , 2020 , 12, 2339	3.6	33
113	Development of Hybrid Machine Learning Models for Predicting the Critical Buckling Load of I-Shaped Cellular Beams. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5458	2.6	33
112	Estimation of axial load-carrying capacity of concrete-filled steel tubes using surrogate models. <i>Neural Computing and Applications</i> , 2021 , 33, 3437-3458	4.8	33
111	Landslide susceptibility modelling using different advanced decision trees methods. <i>Civil Engineering and Environmental Systems</i> , 2018 , 35, 139-157	2.1	33
110	SEVUCAS: A Novel GIS-Based Machine Learning Software for Seismic Vulnerability Assessment. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3495	2.6	31
109	Quantification of Uncertainties on the Critical Buckling Load of Columns under Axial Compression with Uncertain Random Materials. <i>Materials</i> , 2019 , 12,	3.5	31
108	Wildfire Probability Mapping: Bivariate vs. Multivariate Statistics. <i>Remote Sensing</i> , 2019 , 11, 618	5	31
107	Ensemble modeling of landslide susceptibility using random subspace learner and different decision tree classifiers. <i>Geocarto International</i> , 2020 , 1-23	2.7	31
106	Spatial Prediction of Landslides Using Hybrid Integration of Artificial Intelligence Algorithms with Frequency Ratio and Index of Entropy in Nanzheng County, China. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 29	2.6	31
105	Computational Hybrid Machine Learning Based Prediction of Shear Capacity for Steel Fiber Reinforced Concrete Beams. <i>Sustainability</i> , 2020 , 12, 2709	3.6	31

104	A new hybrid simulated annealing-based genetic programming technique to predict the ultimate bearing capacity of piles. <i>Engineering With Computers</i> , 2020 , 37, 2111	4.5	31
103	Development of an Artificial Intelligence Approach for Prediction of Consolidation Coefficient of Soft Soil: A Sensitivity Analysis. <i>Open Construction and Building Technology Journal</i> , 2019 , 13, 178-188	1.1	28
102	GIS Based Novel Hybrid Computational Intelligence Models for Mapping Landslide Susceptibility: A Case Study at Da Lat City, Vietnam. <i>Sustainability</i> , 2019 , 11, 7118	3.6	28
101	Using GIS, Remote Sensing, and Machine Learning to Highlight the Correlation between the Land-Use/Land-Cover Changes and Flash-Flood Potential. <i>Remote Sensing</i> , 2020 , 12, 1422	5	27
100	Flash flood susceptibility mapping using a novel deep learning model based on deep belief network, back propagation and genetic algorithm. <i>Geoscience Frontiers</i> , 2021 , 12, 101100	6	27
99	Bedload transport rate prediction: Application of novel hybrid data mining techniques. <i>Journal of Hydrology</i> , 2020 , 585, 124774	6	26
98	Evaluating Slope Deformation of Earth Dams Due to Earthquake Shaking Using MARS and GMDH Techniques. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1486	2.6	25
97	Machine Learning Methods of Kernel Logistic Regression and Classification and Regression Trees for Landslide Susceptibility Assessment at Part of Himalayan Area, India. <i>Indian Journal of Science and Technology</i> , 2018 , 11, 1-10	1	25
96	Performance Evaluation of GIS-Based Artificial Intelligence Approaches for Landslide Susceptibility Modeling and Spatial Patterns Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 443	2.9	25
95	Can deep learning algorithms outperform benchmark machine learning algorithms in flood susceptibility modeling?. <i>Journal of Hydrology</i> , 2021 , 592, 125615	6	25
94	Optimum model for bearing capacity of concrete-steel columns with AI technology via incorporating the algorithms of IWO and ABC. <i>Engineering With Computers</i> , 2021 , 37, 797-807	4.5	25
93	Improvement of Credal Decision Trees Using Ensemble Frameworks for Groundwater Potential Modeling. <i>Sustainability</i> , 2020 , 12, 2622	3.6	24
92	Rainfall induced landslide susceptibility mapping using novel hybrid soft computing methods based on multi-layer perceptron neural network classifier. <i>Geocarto International</i> , 2020 , 1-25	2.7	24
91	River Water Salinity Prediction Using Hybrid Machine Learning Models. <i>Water (Switzerland)</i> , 2020 , 12, 2951	3	23
90	A novel approach for classification of soils based on laboratory tests using Adaboost, Tree and ANN modeling. <i>Transportation Geotechnics</i> , 2021 , 27, 100508	4	23
89	A Novel Classifier Based on Composite Hyper-cubes on Iterated Random Projections for Assessment of Landslide Susceptibility. <i>Journal of the Geological Society of India</i> , 2018 , 91, 355-362	1.3	22
88	Flood risk assessment using deep learning integrated with multi-criteria decision analysis. <i>Knowledge-Based Systems</i> , 2021 , 219, 106899	7.3	22
87	Novel Ensemble Landslide Predictive Models Based on the Hyperpipes Algorithm: A Case Study in the Nam Dam Commune, Vietnam. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3710	2.6	21

86	A Novel Hybrid Model Based on a Feedforward Neural Network and One Step Secant Algorithm for Prediction of Load-Bearing Capacity of Rectangular Concrete-Filled Steel Tube Columns. <i>Molecules</i> , 2020 , 25,	4.8	21
85	A Novel Intelligence Approach of a Sequential Minimal Optimization-Based Support Vector Machine for Landslide Susceptibility Mapping. <i>Sustainability</i> , 2019 , 11, 6323	3.6	21
84	Soft-computing techniques for prediction of soils consolidation coefficient. <i>Catena</i> , 2020 , 195, 104802	5.8	20
83	Improved flood susceptibility mapping using a best first decision tree integrated with ensemble learning techniques. <i>Geoscience Frontiers</i> , 2021 , 12, 101105	6	20
82	Flood risk assessment using hybrid artificial intelligence models integrated with multi-criteria decision analysis in Quang Nam Province, Vietnam. <i>Journal of Hydrology</i> , 2021 , 592, 125815	6	20
81	Flash-Flood Potential Mapping Using Deep Learning, Alternating Decision Trees and Data Provided by Remote Sensing Sensors. <i>Sensors</i> , 2021 , 21,	3.8	20
80	Seepage Analysis in Short Embankments Using Developing a Metaheuristic Method Based on Governing Equations. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1761	2.6	19
79	GIS based frequency ratio method for landslide susceptibility mapping at Da Lat City, Lam Dong province, Vietnam. <i>Vietnam Journal of Earth Sciences</i> , 2020 , 42, 55-66	2.1	19
78	Mapping forest fire susceptibility using spatially explicit ensemble models based on the locally weighted learning algorithm. <i>Ecological Informatics</i> , 2021 , 63, 101292	4.2	19
77	Permeability prediction of porous media using a combination of computational fluid dynamics and hybrid machine learning methods. <i>Engineering With Computers</i> , 2020 , 37, 3455	4.5	17
76	Particulate matter concentration from open-cut coal mines: A hybrid machine learning estimation. <i>Environmental Pollution</i> , 2020 , 263, 114517	9.3	17
75	Shallow landslide susceptibility mapping: A comparison between classification and regression tree and reduced error pruning tree algorithms. <i>Vietnam Journal of Earth Sciences</i> , 2020 , 42,	2.1	16
74	Parametric Investigation of Particle Swarm Optimization to Improve the Performance of the Adaptive Neuro-Fuzzy Inference System in Determining the Buckling Capacity of Circular Opening Steel Beams. <i>Materials</i> , 2020 , 13,	3.5	15
73	A Hybrid Intelligence Approach to Enhance the Prediction Accuracy of Local Scour Depth at Complex Bridge Piers. <i>Sustainability</i> , 2020 , 12, 1063	3.6	13
72	Monthly suspended sediment load prediction using artificial intelligence: testing of a new random subspace method. <i>Hydrological Sciences Journal</i> , 2020 , 65, 2116-2127	3.5	13
71	Improving pressure drops estimation of fresh cemented paste backfill slurry using a hybrid machine learning method. <i>Minerals Engineering</i> , 2021 , 163, 106790	4.9	13
70	Flood spatial prediction modeling using a hybrid of meta-optimization and support vector regression modeling. <i>Catena</i> , 2021 , 199, 105114	5.8	13
69	Improved strength prediction of cemented paste backfill using a novel model based on adaptive neuro fuzzy inference system and artificial bee colony. <i>Construction and Building Materials</i> , 2021 , 284, 122857	6.7	13

68	Framework of Spatial Flood Risk Assessment for a Case Study in Quang Binh Province, Vietnam. <i>Sustainability</i> , 2020 , 12, 3058	3.6	12
67	Surrogate models for the compressive strength mapping of cement mortar materials. <i>Soft Computing</i> , 2021 , 25, 6347-6372	3.5	12
66	Using Field-Based Monitoring to Enhance the Performance of Rainfall Thresholds for Landslide Warning. <i>Water (Switzerland)</i> , 2020 , 12, 3453	3	11
65	GIS-based ensemble soft computing models for landslide susceptibility mapping. <i>Advances in Space Research</i> , 2020 , 66, 1303-1320	2.4	11
64	Investigating the Applications of Machine Learning Techniques to Predict the Rock Brittleness Index. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1691	2.6	11
63	A novel ensemble learning based on Bayesian Belief Network coupled with an extreme learning machine for flash flood susceptibility mapping. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 96, 103971	7.2	11
62	Groundwater Potential Mapping Using GIS-Based Hybrid Artificial Intelligence Methods. <i>Ground Water</i> , 2021 , 59, 745-760	2.4	10
61	Stochastic Modeling of Groundwater Fluoride Contamination: Introducing Lazy Learners. <i>Ground Water</i> , 2020 , 58, 723-734	2.4	10
60	Landslide Susceptibility Assessment at a Part of Uttarakhand Himalaya, India using GIS Based Statistical Approach of Frequency Ratio Method. <i>International Journal of Engineering Research & Technology</i> , 2015 , V4,	0.9	9
59	Prediction of Shear Strength of Soil Using Direct Shear Test and Support Vector Machine Model. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 41-50	1.1	9
58	Improving Voting Feature Intervals for Spatial Prediction of Landslides. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-15	1.1	9
57	Cost-Effective Approaches Based on Machine Learning to Predict Dynamic Modulus of Warm Mix Asphalt with High Reclaimed Asphalt Pavement. <i>Materials</i> , 2020 , 13,	3.5	9
56	Locally weighted learning based hybrid intelligence models for groundwater potential mapping and modeling: A case study at Gia Lai province, Vietnam. <i>Geoscience Frontiers</i> , 2021 , 12, 101154	6	9
55	GIS-based ensemble computational models for flood susceptibility prediction in the Quang Binh Province, Vietnam. <i>Journal of Hydrology</i> , 2021 , 599, 126500	6	8
54	A Novel Hybrid Model of Rotation Forest Based Functional Trees for Landslide Susceptibility Mapping: A Case Study at Kon Tum Province, Vietnam 2018 , 186-201		7
53	Effects of Inter-Basin Water Transfer on Water Flow Condition of Destination Basin. <i>Sustainability</i> , 2020 , 12, 338	3.6	7
52	Recent tectonics, geodynamics and seismotectonics in the Ninh Thuan Nuclear Power plants and surrounding regions, South Vietnam. <i>Journal of Asian Earth Sciences</i> , 2020 , 187, 104080	2.8	7
51	Characterization of soybeans and calibration of their DEM input parameters. <i>Particulate Science and Technology</i> , 2021 , 39, 530-548	2	7

50	Application of Classification and Regression Trees for Spatial Prediction of Rainfall-Induced Shallow Landslides in the Uttarakhand Area (India) Using GIS. <i>Sustainable Development Goals Series</i> , 2018 , 159-170	0.5	7
49	Quadratic Discriminant Analysis Based Ensemble Machine Learning Models for Groundwater Potential Modeling and Mapping. <i>Water Resources Management</i> ,1	3.7	7
48	Daily Rainfall Prediction Using Nonlinear Autoregressive Neural Network. <i>Lecture Notes in Networks and Systems</i> , 2020 , 213-221	0.5	6
47	Backpropagation Neural Network-Based Machine Learning Model for Prediction of Soil Friction Angle. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-11	1.1	6
46	Artificial Intelligence-Based Model for the Prediction of Dynamic Modulus of Stone Mastic Asphalt. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5242	2.6	6
45	Estimation of Soil Cohesion Using Machine Learning Method: A Random Forest Approach. <i>Advances in Civil Engineering</i> , 2021 , 2021, 1-14	1.3	6
44	Investigating the effect of jointed environment on the cracked concrete arch dam in 3D conditions using FEM. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 55-70	4	6
43	Ensemble machine learning models based on Reduced Error Pruning Tree for prediction of rainfall-induced landslides. <i>International Journal of Digital Earth</i> , 2021 , 14, 575-596	3.9	6
42	Metaheuristic optimization of Levenberg-Marquardt-based artificial neural network using particle swarm optimization for prediction of foamed concrete compressive strength. <i>Neural Computing and Applications</i> ,1	4.8	6
41	Naïve Bayes ensemble models for groundwater potential mapping. <i>Ecological Informatics</i> , 2021 , 64, 101339	4.2	6
40	Prediction of Shear Strength of Soil Using Direct Shear Test and Support Vector Machine Model. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 268-277	1.1	5
39	Performance assessment of artificial neural network using chi-square and backward elimination feature selection methods for landslide susceptibility analysis. <i>Environmental Earth Sciences</i> , 2021 , 80, 1	2.9	5
38	A Comparison of Gaussian Process and MSP for Prediction of Soil Permeability Coefficient. <i>Scientific Programming</i> , 2021 , 2021, 1-13	1.4	5
37	Design of robust control based on linear matrix inequality and a novel hybrid PSO search technique for autonomous underwater vehicle. <i>Applied Ocean Research</i> , 2020 , 101, 102231	3.4	5
36	Spatial prediction of landslides along National Highway-6, Hoa Binh province, Vietnam using novel hybrid models. <i>Geocarto International</i> ,1-26	2.7	5
35	Landslide susceptibility mapping using state-of-the-art machine learning ensembles. <i>Geocarto International</i> ,1-26	2.7	5
34	Flash flood susceptibility prediction mapping for a road network using hybrid machine learning models. <i>Natural Hazards</i> , 2021 , 109, 1247-1270	3	5
33	Flash-flood potential index estimation using fuzzy logic combined with deep learning neural network, naïve Bayes, XGBoost and classification and regression tree. <i>Geocarto International</i> ,1-28	2.7	5

32	A new development of ANFIS-Based Henry gas solubility optimization technique for prediction of soil shear strength. <i>Transportation Geotechnics</i> , 2021 , 29, 100579	4	5
31	Development of Artificial Neural Network for prediction of radon dispersion released from Sinquyen Mine, Vietnam. <i>Environmental Pollution</i> , 2021 , 282, 116973	9.3	5
30	GIS-Based Soft Computing Models for Landslide Susceptibility Mapping: A Case Study of Pithoragarh District, Uttarakhand State, India. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-19	1.1	5
29	Flash-flood propagation susceptibility estimation using weights of evidence and their novel ensembles with multicriteria decision making and machine learning. <i>Geocarto International</i> , 1-32	2.7	4
28	On Random Subspace Optimization-Based Hybrid Computing Models Predicting the California Bearing Ratio of Soils. <i>Materials</i> , 2021 , 14,	3.5	4
27	Flood-prone area mapping using machine learning techniques: a case study of Quang Binh province, Vietnam. <i>Natural Hazards</i> , 2021 , 108, 3229-3251	3	4
26	Development and Identification of Working Parameters for a Lychee Peeling Machine Combining Rollers and a Pressing Belt. <i>AgriEngineering</i> , 2019 , 1, 550-566	2.2	4
25	Flash-flood hazard using deep learning based on H2O R package and fuzzy-multicriteria decision-making analysis. <i>Journal of Hydrology</i> , 2022 , 609, 127747	6	4
24	Soil Unconfined Compressive Strength Prediction Using Random Forest (RF) Machine Learning Model. <i>Open Construction and Building Technology Journal</i> , 2020 , 14, 278-285	1.1	3
23	Joint frequency analysis and uncertainty estimation of coupled rainfall runoff series relying on historical and simulated data. <i>Hydrological Sciences Journal</i> , 2020 , 65, 455-469	3.5	3
22	A Novel Hybrid Intelligent Approach of Random Subspace Ensemble and Reduced Error Pruning Trees for Landslide Susceptibility Modeling: A Case Study at Mu Cang Chai District, Yen Bai Province, Viet Nam 2018 , 255-269		2
21	A Robustness Analysis of Different Nonlinear Autoregressive Networks Using Monte Carlo Simulations for Predicting High Fluctuation Rainfall. <i>Lecture Notes in Networks and Systems</i> , 2020 , 205-212	0.5	2
20	Designing of concrete pavement expansion joints based on climate conditions of Vietnam. <i>Journal of the Mechanical Behavior of Materials</i> , 2019 , 28, 62-67	1.9	2
19	Exploring novel hybrid soft computing models for landslide susceptibility mapping in Son La hydropower reservoir basin. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 1688-1714	3.6	2
18	Application of Artificial Intelligence in Predicting Groundwater Contaminants 2021 , 71-105		2
17	Estimation of the undrained shear strength of sensitive clays using optimized inference intelligence system. <i>Neural Computing and Applications</i> , 2022 , 34, 7835	4.8	1
16	Investigation on factors affecting early strength of high-performance concrete by Gaussian Process Regression.. <i>PLoS ONE</i> , 2022 , 17, e0262930	3.7	1
15	Predicting sustainable arsenic mitigation using machine learning techniques.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 232, 113271	7	1

14	A Comparative Study of Soft Computing Models for Prediction of Permeability Coefficient of Soil. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-11	1.1	1
13	Analyzing travel behavior in Hanoi using Support Vector Machine. <i>Transportation Planning and Technology</i> , 1-17	1.6	1
12	Spatial Prediction of Rainfall Induced Shallow Landslides Using Adaptive-Network-Based Fuzzy Inference System and Particle Swarm Optimization: A Case Study at the Uttarakhand Area, India 2018 , 224-238		1
11	Landslide Susceptibility Mapping Using Single Machine Learning Models: A Case Study from Pithoragarh District, India. <i>Advances in Civil Engineering</i> , 2021 , 2021, 1-19	1.3	1
10	Evaluation of Shannon Entropy and Weights of Evidence Models in Landslide Susceptibility Mapping for the Pithoragarh District of Uttarakhand State, India. <i>Advances in Civil Engineering</i> , 2022 , 2022, 1-16	1.3	1
9	Stacking state-of-the-art ensemble for flash-flood potential assessment. <i>Geocarto International</i> , 1-24	2.7	1
8	Flood susceptibility evaluation through deep learning optimizer ensembles and GIS techniques. <i>Journal of Environmental Management</i> , 2022 , 316, 115316	7.9	1
7	A practical approach to flood hazard, vulnerability, and risk assessing and mapping for Quang Binh province, Vietnam. <i>Environment, Development and Sustainability</i> , 1	4.5	0
6	Using Decision Tree J48 Based Machine Learning Algorithm for Flood Susceptibility Mapping: A Case Study in Quang Binh Province, Vietnam. <i>Lecture Notes in Civil Engineering</i> , 2022 , 1927-1935	0.3	0
5	Hybrid Model: Teaching Learning-Based Optimization of Artificial Neural Network (TLBO-ANN) for the Prediction of Soil Permeability Coefficient. <i>Mathematical Problems in Engineering</i> , 2022 , 2022, 1-9	1.1	0
4	Dimensionality reduction and prediction of soil consolidation coefficient using random forest coupling with Relief algorithm. <i>Frontiers of Structural and Civil Engineering</i> , 1	2.5	0
3	A machine learning approach in spatial predicting of landslides and flash flood susceptible zones for a road network. <i>Modeling Earth Systems and Environment</i> ,	3.2	0
2	GIS-Based Logistic Regression Application for Landslide Susceptibility Mapping in Son La Hydropower Reservoir Basin. <i>Lecture Notes in Civil Engineering</i> , 2022 , 1841-1849	0.3	
1	Identification, Monitoring, and Assessment of an Active Landslide in Tavan-Hauthao, Sapa, Laocai, Vietnam [A Multidisciplinary Approach]. <i>Journal of Disaster Research</i> , 2021 , 16, 501-511	0.8	