Dieu Tien Bui

List of Publications by Year in Descending Order

244 papers	15,701 citations	72 h-index	115 g-index
251 ext. papers	19,847 ext. citations	4.7 avg, IF	7.58 L-index

#	Paper	IF	Citations
244	Predicting Discharges in Sewer Pipes Using an Integrated Long Short-Term Memory and Entropy A-TOPSIS Modeling Framework. *Water (Switzerland)*, **2022**, 14, 300	3	3
243	Swarm intelligence optimization of the group method of data handling using the cuckoo search and whale optimization algorithms to model and predict landslides. *Applied Soft Computing Journal*, **2022**, 116, 108254	7.5	4
242	An approach based on socio-politically optimized neural computing network for predicting shallow landslide susceptibility at tropical areas. *Environmental Earth Sciences*, **2021**, 80, 1	2.9	1
241	Thirty-Year Dynamics of LULC at the Dong Thap Muoi Area, Southern Vietnam, Using Google Earth Engine. *ISPRS International Journal of Geo-Information*, **2021**, 10, 226	2.9	0
240	First comprehensive quantification of annual land use/cover from 1990 to 2020 across mainland Vietnam. *Scientific Reports*, **2021**, 11, 9979	4.9	8
239	Optimization of state-of-the-art fuzzy-metaheuristic ANFIS-based machine learning models for flood susceptibility prediction mapping in the Middle Ganga Plain, India. *Science of the Total Environment*, **2021**, 750, 141565	10.2	36
238	An integrated approach of GIS and hybrid intelligence techniques applied for flood risk modeling. *Journal of Environmental Planning and Management*, **2021**, 64, 485-516	2.8	9
237	Flash flood susceptibility mapping using a novel deep learning model based on deep belief network, back propagation and genetic algorithm. *Geoscience Frontiers*, **2021**, 12, 101100	6	27
236	Assessment of Gini-, entropy- and ratio-based classification trees for groundwater potential modelling and prediction. *Geocarto International*, **2021**, 1-20	2.7	3
235	Deep learning neural networks for spatially explicit prediction of flash flood probability. *Geoscience Frontiers*, **2021**, 12, 101076	6	22
234	A novel hybrid quantum-PSO and credal decision tree ensemble for tropical cyclone induced flash flood susceptibility mapping with geospatial data. *Journal of Hydrology*, **2021**, 596, 125682	6	11
233	Fine-tuning of neural computing using whale optimization algorithm for predicting compressive strength of concrete. *Engineering With Computers*, **2021**, 37, 701-712	4.5	20
232	Proposing two new metaheuristic algorithms of ALO-MLP and SHO-MLP in predicting bearing capacity of circular footing located on horizontal multilayer soil. *Engineering With Computers*, **2021**, 37, 1537-1547	4.5	11
231	A new hybrid equilibrium optimized SysFor based geospatial data mining for tropical storm-induced flash flood susceptible mapping. *Journal of Environmental Management*, **2021**, 280, 111858	7.9	7
230	A new approach of deep neural computing for spatial prediction of wildfire danger at tropical climate areas. *Ecological Informatics*, **2021**, 63, 101300	4.2	10
229	An advanced meta-learner based on artificial electric field algorithm optimized stacking ensemble techniques for enhancing prediction accuracy of soil shear strength. *Engineering With Computers*, **2020**, 1	4.5	3
228	Novel Ensemble of Multivariate Adaptive Regression Spline with Spatial Logistic Regression and Boosted Regression Tree for Gully Erosion Susceptibility. *Remote Sensing*, **2020**, 12, 3284	5	17

227	Machine learning methods for landslide susceptibility studies: A comparative overview of algorithm performance. *Earth-Science Reviews*, **2020**, 207, 103225	10.2	162
226	Identifying sources of dust aerosol using a new framework based on remote sensing and modelling. *Science of the Total Environment*, **2020**, 737, 139508	10.2	15
225	Spatial modeling of exposure of mangrove ecosystems to multiple environmental hazards. *Science of the Total Environment*, **2020**, 740, 140167	10.2	11
224	Analysis of Outbreak and Global Impacts of the COVID-19. *Healthcare (Switzerland)*, **2020**, 8,	3.4	21
223	Vulnerability of coastal communities to climate change: Thirty-year trend analysis and prospective prediction for the coastal regions of the Persian Gulf and Gulf of Oman. *Science of the Total Environment*, **2020**, 741, 140305	10.2	11
222	Spatial predicting of flood potential areas using novel hybridizations of fuzzy decision-making, bivariate statistics, and machine learning. *Journal of Hydrology*, **2020**, 585, 124808	6	44
221	Crime rate detection using social media of different crime locations and Twitter part-of-speech tagger with Brown clustering. *Journal of Intelligent and Fuzzy Systems*, **2020**, 38, 4287-4299	1.6	33
220	Spatial modelling of gully erosion in the Ardib River Watershed using three statistical-based techniques. *Catena*, **2020**, 190, 104545	5.8	18
219	Landslide Susceptibility Evaluation and Management Using Different Machine Learning Methods in The Gallicash River Watershed, Iran. *Remote Sensing*, **2020**, 12, 475	5	66
218	Machine Learning-Based Gully Erosion Susceptibility Mapping: A Case Study of Eastern India. *Sensors*, **2020**, 20,	3.8	37
217	Improving prediction of water quality indices using novel hybrid machine-learning algorithms. *Science of the Total Environment*, **2020**, 721, 137612	10.2	69
216	Novel Ensembles of Deep Learning Neural Network and Statistical Learning for Flash-Flood Susceptibility Mapping. *Water (Switzerland)*, **2020**, 12, 1549	3	22
215	Spatially explicit predictions of changes in the extent of mangroves of Iran at the end of the 21st century. *Estuarine, Coastal and Shelf Science*, **2020**, 237, 106644	2.9	16
214	Hybridized neural fuzzy ensembles for dust source modeling and prediction. *Atmospheric Environment*, **2020**, 224, 117320	5.3	28
213	Bedload transport rate prediction: Application of novel hybrid data mining techniques. *Journal of Hydrology*, **2020**, 585, 124774	6	26
212	Spatial assessment of landslide risk using two novel integrations of neuro-fuzzy system and metaheuristic approaches; Ardabil Province, Iran. *Geomatics, Natural Hazards and Risk*, **2020**, 11, 230-258	3.6	7
211	A New Integrated Approach Based on the Iterative Super-Resolution Algorithm and Expectation Maximization for Face Hallucination. *Applied Sciences (Switzerland)*, **2020**, 10, 718	2.6	7
210	A Hybrid Intelligence Approach to Enhance the Prediction Accuracy of Local Scour Depth at Complex Bridge Piers. *Sustainability*, **2020**, 12, 1063	3.6	13

209	Shuffled Frog Leaping Algorithm and Wind-Driven Optimization Technique Modified with Multilayer Perceptron. *Applied Sciences (Switzerland)*, **2020**, 10, 689	2.6	9
208	A methodological comparison of head-cut based gully erosion susceptibility models: Combined use of statistical and artificial intelligence. *Geomorphology*, **2020**, 359, 107136	4.3	20
207	Hybridizing four wise neural-metaheuristic paradigms in predicting soil shear strength. *Measurement: Journal of the International Measurement Confederation*, **2020**, 156, 107576	4.6	19
206	A Comparative Study of Kernel Logistic Regression, Radial Basis Function Classifier, Multinomial Naïve Bayes, and Logistic Model Tree for Flash Flood Susceptibility Mapping. *Water (Switzerland)*, **2020**, 12, 239	3	36
205	Enhancing nitrate and strontium concentration prediction in groundwater by using new data mining algorithm. *Science of the Total Environment*, **2020**, 715, 136836	10.2	34
204	Fuzzy-metaheuristic ensembles for spatial assessment of forest fire susceptibility. *Journal of Environmental Management*, **2020**, 260, 109867	7.9	47
203	Gully Head-Cut Distribution Modeling Using Machine Learning Methods—A Case Study of N.W. Iran. *Water (Switzerland)*, **2020**, 12, 16	3	21
202	Hybrid Computational Intelligence Models for Improvement Gully Erosion Assessment. *Remote Sensing*, **2020**, 12, 140	5	25
201	Effectiveness assessment of Keras based deep learning with different robust optimization algorithms for shallow landslide susceptibility mapping at tropical area. *Catena*, **2020**, 188, 104458	5.8	56
200	Evaluation of Recent Advanced Soft Computing Techniques for Gully Erosion Susceptibility Mapping: A Comparative Study. *Sensors*, **2020**, 20,	3.8	24
199	A tree-based intelligence ensemble approach for spatial prediction of potential groundwater. *International Journal of Digital Earth*, **2020**, 13, 1408-1429	3.9	35
198	A New Modeling Approach for Spatial Prediction of Flash Flood with Biogeography Optimized CHAID Tree Ensemble and Remote Sensing Data. *Remote Sensing*, **2020**, 12, 1373	5	14
197	Flash flood susceptibility modelling using functional tree and hybrid ensemble techniques. *Journal of Hydrology*, **2020**, 587, 125007	6	45
196	A Novel GIS-Based Random Forest Machine Algorithm for the Spatial Prediction of Shallow Landslide Susceptibility. *Forests*, **2020**, 11, 118	2.8	27
195	Novel hybrid intelligence models for flood-susceptibility prediction: Meta optimization of the GMDH and SVR models with the genetic algorithm and harmony search. *Journal of Hydrology*, **2020**, 590, 125423	6	37
194	The feasibility of Levenberg–Marquardt algorithm combined with imperialist competitive computational method predicting drag reduction in crude oil pipelines. *Journal of Petroleum Science and Engineering*, **2020**, 185, 106634	4.4	26
193	A Novel Application of League Championship Optimization (LCA): Hybridizing Fuzzy Logic for Soil Compression Coefficient Analysis. *Applied Sciences (Switzerland)*, **2020**, 10, 67	2.6	4
192	Effects of Inter-Basin Water Transfer on Water Flow Condition of Destination Basin. *Sustainability*, **2020**, 12, 338	3.6	7

191	Comparing the prediction performance of a Deep Learning Neural Network model with conventional machine learning models in landslide susceptibility assessment. *Catena*, **2020**, 188, 104426	5.8	113
190	Identification of areas prone to flash-flood phenomena using multiple-criteria decision-making, bivariate statistics, machine learning and their ensembles. *Science of the Total Environment*, **2020**, 712, 136492	10.2	53
189	The effect of sample size on different machine learning models for groundwater potential mapping in mountain bedrock aquifers. *Catena*, **2020**, 187, 104421	5.8	44
188	Herding Behaviors of grasshopper and Harris hawk for hybridizing the neural network in predicting the soil compression coefficient. *Measurement: Journal of the International Measurement Confederation*, **2020**, 152, 107389	4.6	33
187	Comparison of machine learning models for gully erosion susceptibility mapping. *Geoscience Frontiers*, **2020**, 11, 1609-1620	6	59
186	Systematic sample subdividing strategy for training landslide susceptibility models. *Catena*, **2020**, 187, 104358	5.8	16
185	Capability and robustness of novel hybridized models used for drought hazard modeling in southeast Queensland, Australia. *Science of the Total Environment*, **2020**, 718, 134656	10.2	18
184	Novel Credal Decision Tree-Based Ensemble Approaches for Predicting the Landslide Susceptibility. *Remote Sensing*, **2020**, 12, 3389	5	25
183	Coastal Wetland Classification with Deep U-Net Convolutional Networks and Sentinel-2 Imagery: A Case Study at the Tien Yen Estuary of Vietnam. *Remote Sensing*, **2020**, 12, 3270	5	12
182	Mapping wind erosion hazard with regression-based machine learning algorithms. *Scientific Reports* , **2020**, 10, 20494	4.9	15
181	GIS-Based Mapping of Seismic Parameters for the Pyrenees. *ISPRS International Journal of Geo-Information*, **2020**, 9, 452	2.9	3
180	Development of novel hybridized models for urban flood susceptibility mapping. *Scientific Reports*, **2020**, 10, 12937	4.9	32
179	Soft-computing techniques for prediction of soils consolidation coefficient. *Catena*, **2020**, 195, 104802	5.8	20
178	A novel ensemble learning based on Bayesian Belief Network coupled with an extreme learning machine for flash flood susceptibility mapping. *Engineering Applications of Artificial Intelligence*, **2020**, 96, 103971	7.2	11
177	New neural fuzzy-based machine learning ensemble for enhancing the prediction accuracy of flood susceptibility mapping. *Hydrological Sciences Journal*, **2020**, 65, 2816-2837	3.5	19
176	Convolutional neural network approach for spatial prediction of flood hazard at national scale of Iran. *Journal of Hydrology*, **2020**, 591, 125552	6	20
175	A New Hybrid Firefly–PSO Optimized Random Subspace Tree Intelligence for Torrential Rainfall-Induced Flash Flood Susceptible Mapping. *Remote Sensing*, **2020**, 12, 2688	5	20
174	Novel Machine Learning Approaches for Modelling the Gully Erosion Susceptibility. *Remote Sensing*, **2020**, 12, 2833	5	27

173	A novel hybrid approach of landslide susceptibility modelling using rotation forest ensemble and different base classifiers. *Geocarto International*, **2020**, 35, 1267-1292	2.7	79
172	A hybrid computational intelligence approach for predicting soil shear strength for urban housing construction: a case study at Vinhomes Imperia project, Hai Phong city (Vietnam). *Engineering With Computers*, **2020**, 36, 603-616	4.5	29
171	Prediction of Blast-Induced Ground Vibration in an Open-Pit Mine by a Novel Hybrid Model Based on Clustering and Artificial Neural Network. *Natural Resources Research*, **2020**, 29, 691-709	4.9	110
170	Development of a novel hybrid intelligent model for solving engineering problems using GS-GMDH algorithm. *Engineering With Computers*, **2020**, 36, 1379-1391	4.5	31
169	Advanced soft computing techniques for predicting soil compression coefficient in engineering project: a comparative study. *Engineering With Computers*, **2020**, 36, 1405-1416	4.5	10
168	Novel Soft Computing Model for Predicting Blast-Induced Ground Vibration in Open-Pit Mines Based on Particle Swarm Optimization and XGBoost. *Natural Resources Research*, **2020**, 29, 711-721	4.9	74
167	Prediction of ultimate bearing capacity through various novel evolutionary and neural network models. *Engineering With Computers*, **2020**, 36, 671-687	4.5	42
166	A Monte Carlo simulation approach for effective assessment of flyrock based on intelligent system of neural network. *Engineering With Computers*, **2020**, 36, 713-723	4.5	64
165	Assessing cohesion of the rocks proposing a new intelligent technique namely group method of data handling. *Engineering With Computers*, **2020**, 36, 783-793	4.5	1
164	A novel deep learning neural network approach for predicting flash flood susceptibility: A case study at a high frequency tropical storm area. *Science of the Total Environment*, **2020**, 701, 134413	10.2	120
163	Improved landslide assessment using support vector machine with bagging, boosting, and stacking ensemble machine learning framework in a mountainous watershed, Japan. *Landslides*, **2020**, 17, 641-658	6.6	125
162	Recent tectonics, geodynamics and seismotectonics in the Ninh Thuan Nuclear Power plants and surrounding regions, South Vietnam. *Journal of Asian Earth Sciences*, **2020**, 187, 104080	2.8	7
161	Intelligent Prediction of Blasting-Induced Ground Vibration Using ANFIS Optimized by GA and PSO. *Natural Resources Research*, **2020**, 29, 739-750	4.9	44
160	Machine learning approaches for spatial modeling of agricultural droughts in the south-east region of Queensland Australia. *Science of the Total Environment*, **2020**, 699, 134230	10.2	55
159	Morphometric Analysis for Soil Erosion Susceptibility Mapping Using Novel GIS-Based Ensemble Model. *Remote Sensing*, **2020**, 12, 874	5	29
158	Predicting Heating and Cooling Loads in Energy-Efficient Buildings Using Two Hybrid Intelligent Models. *Applied Sciences (Switzerland)*, **2019**, 9, 3543	2.6	25
157	Application of Three Metaheuristic Techniques in Simulation of Concrete Slump. *Applied Sciences (Switzerland)*, **2019**, 9, 4340	2.6	12
156	New Ensemble Models for Shallow Landslide Susceptibility Modeling in a Semi-Arid Watershed. *Forests*, **2019**, 10, 743	2.8	60

155	Spatial prediction of shallow landslide using Bat algorithm optimized machine learning approach: A case study in Lang Son Province, Vietnam. *Advanced Engineering Informatics*, **2019**, 42, 100978	7.4	25
154	A comparative study of support vector machine and logistic model tree classifiers for shallow landslide susceptibility modeling. *Environmental Earth Sciences*, **2019**, 78, 1	2.9	38
153	Prediction of Pullout Behavior of Belled Piles through Various Machine Learning Modelling Techniques. *Sensors*, **2019**, 19,	3.8	11
152	Spatial Prediction of Landslide Susceptibility Using GIS-Based Data Mining Techniques of ANFIS with Whale Optimization Algorithm (WOA) and Grey Wolf Optimizer (GWO). *Applied Sciences (Switzerland)*, **2019**, 9, 3755	2.6	89
151	Multi-Hazard Exposure Mapping Using Machine Learning Techniques: A Case Study from Iran. *Remote Sensing*, **2019**, 11, 1943	5	37
150	Inferring air pollution from air quality index by different geographical areas: case study in India. *Air Quality, Atmosphere and Health*, **2019**, 12, 1347-1357	5.6	43
149	Multi-hazards vulnerability assessment of southern coasts of Iran. *Journal of Environmental Management*, **2019**, 252, 109628	7.9	23
148	Remote Sensing Approaches for Monitoring Mangrove Species, Structure, and Biomass: Opportunities and Challenges. *Remote Sensing*, **2019**, 11, 230	5	80
147	Assessment of advanced random forest and decision tree algorithms for modeling rainfall-induced landslide susceptibility in the Izu-Oshima Volcanic Island, Japan. *Science of the Total Environment*, **2019**, 662, 332-346	10.2	226
146	Genetic and firefly metaheuristic algorithms for an optimized neuro-fuzzy prediction modeling of wildfire probability. *Journal of Environmental Management*, **2019**, 243, 358-369	7.9	42
145	A Novel Ensemble Artificial Intelligence Approach for Gully Erosion Mapping in a Semi-Arid Watershed (Iran). *Sensors*, **2019**, 19,	3.8	60
144	Hybrid computational intelligence models for groundwater potential mapping. *Catena*, **2019**, 182, 104101	5.8	69
143	An Automated Python Language-Based Tool for Creating Absence Samples in Groundwater Potential Mapping. *Remote Sensing*, **2019**, 11, 1375	5	15
142	A Review of Remote Sensing Approaches for Monitoring Blue Carbon Ecosystems: Mangroves, Seagrassesand Salt Marshes during 2010?2018. *Sensors*, **2019**, 19,	3.8	51
141	Development of artificial intelligence models for the prediction of Compression Coefficient of soil: An application of Monte Carlo sensitivity analysis. *Science of the Total Environment*, **2019**, 679, 172-184	10.2	90
140	A new intelligence approach based on GIS-based Multivariate Adaptive Regression Splines and metaheuristic optimization for predicting flash flood susceptible areas at high-frequency tropical typhoon area. *Journal of Hydrology*, **2019**, 575, 314-326	6	35
139	Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm. *Remote Sensing*, **2019**, 11, 931	5	58
138	A novel hybrid approach based on a swarm intelligence optimized extreme learning machine for flash flood susceptibility mapping. *Catena*, **2019**, 179, 184-196	5.8	123

137	Evaluating GIS-Based Multiple Statistical Models and Data Mining for Earthquake and Rainfall-Induced Landslide Susceptibility Using the LiDAR DEM. *Remote Sensing*, **2019**, 11, 638	5	79
136	Uncertainties of prediction accuracy in shallow landslide modeling: Sample size and raster resolution. *Catena*, **2019**, 178, 172-188	5.8	62
135	Flash flood susceptibility modeling using an optimized fuzzy rule based feature selection technique and tree based ensemble methods. *Science of the Total Environment*, **2019**, 668, 1038-1054	10.2	117
134	Wildfire Probability Mapping: Bivariate vs. Multivariate Statistics. *Remote Sensing*, **2019**, 11, 618	5	31
133	Land subsidence modelling using tree-based machine learning algorithms. *Science of the Total Environment*, **2019**, 672, 239-252	10.2	58
132	PMT: New analytical framework for automated evaluation of geo-environmental modelling approaches. *Science of the Total Environment*, **2019**, 664, 296-311	10.2	60
131	Hybrid Machine Learning Approaches for Landslide Susceptibility Modeling. *Forests*, **2019**, 10, 157	2.8	91
130	A comparison of Support Vector Machines and Bayesian algorithms for landslide susceptibility modelling. *Geocarto International*, **2019**, 34, 1385-1407	2.7	64
129	A novel hybrid approach of Bayesian Logistic Regression and its ensembles for landslide susceptibility assessment. *Geocarto International*, **2019**, 34, 1427-1457	2.7	79
128	A Novel Swarm Intelligence-Harris Hawks Optimization for Spatial Assessment of Landslide Susceptibility. *Sensors*, **2019**, 19,	3.8	76
127	Development of a Novel Hybrid Intelligence Approach for Landslide Spatial Prediction. *Applied Sciences (Switzerland)*, **2019**, 9, 2824	2.6	45
126	A Semi-empirical Approach Based on Genetic Programming for the Study of Biophysical Controls on Diameter-Growth of Fagus orientalis in Northern Iran. *Remote Sensing*, **2019**, 11, 1680	5	10
125	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. *Remote Sensing*, **2019**, 11, 1589	5	82
124	Spatial prediction of flood potential using new ensembles of bivariate statistics and artificial intelligence: A case study at the Putna river catchment of Romania. *Science of the Total Environment* , **2019**, 691, 1098-1118	10.2	55
123	Novel ensembles of COPRAS multi-criteria decision-making with logistic regression, boosted regression tree, and random forest for spatial prediction of gully erosion susceptibility. *Science of the Total Environment*, **2019**, 688, 903-916	10.2	59
122	Predicting uncertainty of machine learning models for modelling nitrate pollution of groundwater using quantile regression and UNEEC methods. *Science of the Total Environment*, **2019**, 688, 855-866	10.2	89
121	The Feasibility of Three Prediction Techniques of the Artificial Neural Network, Adaptive Neuro-Fuzzy Inference System, and Hybrid Particle Swarm Optimization for Assessing the Safety Factor of Cohesive Slopes. *ISPRS International Journal of Geo-Information*, **2019**, 8, 391	2.9	54
120	Development of Two Novel Hybrid Prediction Models Estimating Ultimate Bearing Capacity of the Shallow Circular Footing. *Applied Sciences (Switzerland)*, **2019**, 9, 4594	2.6	4

119	Novel Nature-Inspired Hybrids of Neural Computing for Estimating Soil Shear Strength. *Applied Sciences (Switzerland)*, **2019**, 9, 4643	2.6	15
118	Slope Stability Monitoring Using Novel Remote Sensing Based Fuzzy Logic. *Sensors*, **2019**, 19,	3.8	18
117	Spatial Landslide Susceptibility Assessment Based on Novel Neural-Metaheuristic Geographic Information System Based Ensembles. *Sensors*, **2019**, 19,	3.8	21
116	Machine-Learning-Based Classification Approaches toward Recognizing Slope Stability Failure. *Applied Sciences (Switzerland)*, **2019**, 9, 4638	2.6	9
115	A Hybrid Computational Intelligence Approach to Groundwater Spring Potential Mapping. *Water (Switzerland)*, **2019**, 11, 2013	3	45
114	Predicting Heating Load in Energy-Efficient Buildings Through Machine Learning Techniques. *Applied Sciences (Switzerland)*, **2019**, 9, 4338	2.6	14
113	Development of an Artificial Intelligence Approach for Prediction of Consolidation Coefficient of Soft Soil: A Sensitivity Analysis. *Open Construction and Building Technology Journal*, **2019**, 13, 178-188	1.1	28
112	Spatial pattern analysis and prediction of forest fire using new machine learning approach of Multivariate Adaptive Regression Splines and Differential Flower Pollination optimization: A case study at Lao Cai province (Viet Nam). *Journal of Environmental Management*, **2019**, 237, 476-487	7.9	44
111	A New Approach of Hybrid Bee Colony Optimized Neural Computing to Estimate the Soil Compression Coefficient for a Housing Construction Project. *Applied Sciences (Switzerland)*, **2019**, 9, 4912	2.6	8
110	GIS-Based Site Selection for Check Dams in Watersheds: Considering Geomorphometric and Topo-Hydrological Factors. *Sustainability*, **2019**, 11, 5639	3.6	22
109	Spotted Hyena Optimizer and Ant Lion Optimization in Predicting the Shear Strength of Soil. *Applied Sciences (Switzerland)*, **2019**, 9, 4738	2.6	18
108	Spatial Modeling of Snow Avalanche Using Machine Learning Models and Geo-Environmental Factors: Comparison of Effectiveness in Two Mountain Regions. *Remote Sensing*, **2019**, 11, 2995	5	27
107	Proposing a Novel Predictive Technique for Gully Erosion Susceptibility Mapping in Arid and Semi-arid Regions (Iran). *Remote Sensing*, **2019**, 11, 2577	5	30
106	Urban Flood Hazard Modeling Using Self-Organizing Map Neural Network. *Water (Switzerland)*, **2019**, 11, 2370	3	23
105	A Novel Intelligence Approach of a Sequential Minimal Optimization-Based Support Vector Machine for Landslide Susceptibility Mapping. *Sustainability*, **2019**, 11, 6323	3.6	21
104	A Novel Ensemble Approach for Landslide Susceptibility Mapping (LSM) in Darjeeling and Kalimpong Districts, West Bengal, India. *Remote Sensing*, **2019**, 11, 2866	5	72
103	Adaptive Network Based Fuzzy Inference System with Meta-Heuristic Optimizations for International Roughness Index Prediction. *Applied Sciences (Switzerland)*, **2019**, 9, 4715	2.6	40
102	Neural Computing Improvement Using Four Metaheuristic Optimizers in Bearing Capacity Analysis of Footings Settled on Two-Layer Soils. *Applied Sciences (Switzerland)*, **2019**, 9, 5264	2.6	9

101	Application of Probabilistic and Machine Learning Models for Groundwater Potentiality Mapping in Damghan Sedimentary Plain, Iran. *Remote Sensing*, **2019**, 11, 3015	5	27
100	Two novel neural-evolutionary predictive techniques of dragonfly algorithm (DA) and biogeography-based optimization (BBO) for landslide susceptibility analysis. *Geomatics, Natural Hazards and Risk*, **2019**, 10, 2429-2453	3.6	11
99	Reliability Analysis of Slope Safety Factor by Using GPR and GP. *Geotechnical and Geological Engineering*, **2019**, 37, 2245-2254	1.5	7
98	A swarm intelligence-based machine learning approach for predicting soil shear strength for road construction: a case study at Trung Luong National Expressway Project (Vietnam). *Engineering With Computers*, **2019**, 35, 955-965	4.5	25
97	A novel ensemble modeling approach for the spatial prediction of tropical forest fire susceptibility using LogitBoost machine learning classifier and multi-source geospatial data. *Theoretical and Applied Climatology*, **2019**, 137, 637-653	3	72
96	Landslide susceptibility modeling using Reduced Error Pruning Trees and different ensemble techniques: Hybrid machine learning approaches. *Catena*, **2019**, 175, 203-218	5.8	157
95	A Hybrid GIS Multi-Criteria Decision-Making Method for Flood Susceptibility Mapping at Shangyou, China. *Remote Sensing*, **2019**, 11, 62	5	63
94	Reducing the impacts of intra-class spectral variability on the accuracy of soft classification and super-resolution mapping of shoreline. *International Journal of Remote Sensing*, **2019**, 40, 3384-3400	3.1	1
93	Landslide susceptibility assessment at the Wuning area, China: a comparison between multi-criteria decision making, bivariate statistical and machine learning methods. *Natural Hazards*, **2019**, 96, 173-212	3	63
92	Meta optimization of an adaptive neuro-fuzzy inference system with grey wolf optimizer and biogeography-based optimization algorithms for spatial prediction of landslide susceptibility. *Catena*, **2019**, 175, 430-445	5.8	143
91	Soil Salinity Mapping Using SAR Sentinel-1 Data and Advanced Machine Learning Algorithms: A Case Study at Ben Tre Province of the Mekong River Delta (Vietnam). *Remote Sensing*, **2019**, 11, 128	5	57
90	A novel artificial intelligence approach based on Multi-layer Perceptron Neural Network and Biogeography-based Optimization for predicting coefficient of consolidation of soil. *Catena*, **2019**, 173, 302-311	5.8	92
89	Spatial prediction of landslide susceptibility using data mining-based kernel logistic regression, naive Bayes and RBFNetwork models for the Long County area (China). *Bulletin of Engineering Geology and the Environment*, **2019**, 78, 247-266	4	78
88	A novel hybrid intelligent model of support vector machines and the MultiBoost ensemble for landslide susceptibility modeling. *Bulletin of Engineering Geology and the Environment*, **2019**, 78, 2865-2886	4	111
87	GIS-based landslide susceptibility evaluation using a novel hybrid integration approach of bivariate statistical based random forest method. *Catena*, **2018**, 164, 135-149	5.8	152
86	Optimized rule-based logistic model tree algorithm for mapping mangrove species using ALOS PALSAR imagery and GIS in the tropical region. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	24
85	Spatial prediction of rainfall-induced shallow landslides using gene expression programming integrated with GIS: a case study in Vietnam. *Natural Hazards*, **2018**, 92, 1871-1887	3	22
84	Prediction of shear strength of soft soil using machine learning methods. *Catena*, **2018**, 166, 181-191	5.8	93

83	Bagging based Support Vector Machines for spatial prediction of landslides. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	75
82	A comparative assessment of decision trees algorithms for flash flood susceptibility modeling at Haraz watershed, northern Iran. *Science of the Total Environment*, **2018**, 627, 744-755	10.2	326
81	Landslide susceptibility mapping using J48 Decision Tree with AdaBoost, Bagging and Rotation Forest ensembles in the Guangchang area (China). *Catena*, **2018**, 163, 399-413	5.8	246
80	A novel hybrid artificial intelligent approach based on neural fuzzy inference model and particle swarm optimization for horizontal displacement modeling of hydropower dam. *Neural Computing and Applications*, **2018**, 29, 1495-1506	4.8	64
79	Predicting earthquake-induced soil liquefaction based on a hybridization of kernel Fisher discriminant analysis and a least squares support vector machine: a multi-dataset study. *Bulletin of Engineering Geology and the Environment*, **2018**, 77, 191-204	4	65
78	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
77	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. *International Journal of Sediment Research*, **2018**, 33, 157-170	3	102
76	GIS-Based Landslide Spatial Modeling Using Batch-Training Back-propagation Artificial Neural Network: A Study of Model Parameters **2018**, 239-254		2
75	An Integration of Least Squares Support Vector Machines and Firefly Optimization Algorithm for Flood Susceptible Modeling Using GIS **2018**, 52-64		1
74	Land Subsidence Susceptibility Mapping in South Korea Using Machine Learning Algorithms. *Sensors*, **2018**, 18,	3.8	89
73	Spatial Prediction of Rainfall-Induced Landslides Using Aggregating One-Dependence Estimators Classifier **2018**, 46, 1457-1470		53
72	Improving Accuracy Estimation of Forest Aboveground Biomass Based on Incorporation of ALOS-2 PALSAR-2 and Sentinel-2A Imagery and Machine Learning: A Case Study of the Hyrcanian Forest Area (Iran). *Remote Sensing*, **2018**, 10, 172	5	116
71	Landslide Susceptibility Assessment at Mila Basin (Algeria): A Comparative Assessment of Prediction Capability of Advanced Machine Learning Methods. *ISPRS International Journal of Geo-Information*, **2018**, 7, 268	2.9	60
70	Willingness to pay for mangrove restoration in the context of climate change in the Cat Ba biosphere reserve, Vietnam. *Ocean and Coastal Management*, **2018**, 163, 269-277	3.9	18
69	Estimating aboveground biomass of a mangrove plantation on the Northern coast of Vietnam using machine learning techniques with an integration of ALOS-2 PALSAR-2 and Sentinel-2A data. *International Journal of Remote Sensing*, **2018**, 39, 7761-7788	3.1	41
68	Groundwater spring potential modelling: Comprising the capability and robustness of three different modeling approaches. *Journal of Hydrology*, **2018**, 565, 248-261	6	96
67	A comparison study of DRASTIC methods with various objective methods for groundwater vulnerability assessment. *Science of the Total Environment*, **2018**, 642, 1032-1049	10.2	95
66	Application of Classification and Regression Trees for Spatial Prediction of Rainfall-Induced Shallow Landslides in the Uttarakhand Area (India) Using GIS. *Sustainable Development Goals Series*, **2018**, 159-170	8.5	7

65	Spatial prediction of landslides using a hybrid machine learning approach based on Random Subspace and Classification and Regression Trees. *Geomorphology*, **2018**, 303, 256-270	4.3	129
64	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. *Sensors*, **2018**, 18,	3.8	100
63	Landslide susceptibility modelling using different advanced decision trees methods. *Civil Engineering and Environmental Systems*, **2018**, 35, 139-157	2.1	33
62	Landslide Detection and Susceptibility Mapping by AIRSAR Data Using Support Vector Machine and Index of Entropy Models in Cameron Highlands, Malaysia. *Remote Sensing*, **2018**, 10, 1527	5	88
61	Prediction of soil compression coefficient for urban housing project using novel integration machine learning approach of swarm intelligence and Multi-layer Perceptron Neural Network. *Advanced Engineering Informatics*, **2018**, 38, 593-604	7.4	72
60	A Novel Integrated Approach of Relevance Vector Machine Optimized by Imperialist Competitive Algorithm for Spatial Modeling of Shallow Landslides. *Remote Sensing*, **2018**, 10, 1538	5	67
59	Novel Hybrid Evolutionary Algorithms for Spatial Prediction of Floods. *Scientific Reports*, **2018**, 8, 15364	4.9	92
58	A Novel Hybrid Swarm Optimized Multilayer Neural Network for Spatial Prediction of Flash Floods in Tropical Areas Using Sentinel-1 SAR Imagery and Geospatial Data. *Sensors*, **2018**, 18,	3.8	61
57	New Hybrids of ANFIS with Several Optimization Algorithms for Flood Susceptibility Modeling. *Water (Switzerland)*, **2018**, 10, 1210	3	120
56	Spatial prediction of groundwater spring potential mapping based on an adaptive neuro-fuzzy inference system and metaheuristic optimization. *Hydrology and Earth System Sciences*, **2018**, 22, 4771-4792	5.5	81
55	Enhancing Prediction Performance of Landslide Susceptibility Model Using Hybrid Machine Learning Approach of Bagging Ensemble and Logistic Model Tree. *Applied Sciences (Switzerland)*, **2018**, 8, 1046	2.6	54
54	GIS-based spatial prediction of tropical forest fire danger using a new hybrid machine learning method. *Ecological Informatics*, **2018**, 48, 104-116	4.2	33
53	Image Processing Based Classification of Asphalt Pavement Cracks Using Support Vector Machine Optimized by Artificial Bee Colony. *Journal of Computing in Civil Engineering*, **2018**, 32, 04018037	5	57
52	Landslide susceptibility assesssment in the Uttarakhand area (India) using GIS: a comparison study of prediction capability of naïve bayes, multilayer perceptron neural networks, and functional trees methods. *Theoretical and Applied Climatology*, **2017**, 128, 255-273	3	195
51	Spatial prediction of rainfall-induced landslides for the Lao Cai area (Vietnam) using a hybrid intelligent approach of least squares support vector machines inference model and artificial bee colony optimization. *Landslides*, **2017**, 14, 447-458	6.6	172
50	A novel fuzzy K-nearest neighbor inference model with differential evolution for spatial prediction of rainfall-induced shallow landslides in a tropical hilly area using GIS. *Landslides*, **2017**, 14, 1-17	6.6	85
49	Shallow landslide susceptibility assessment using a novel hybrid intelligence approach. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	165
48	A comparative study of sequential minimal optimization-based support vector machines, vote feature intervals, and logistic regression in landslide susceptibility assessment using GIS. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	62

47	Landslide Susceptibility Assessment Using Bagging Ensemble Based Alternating Decision Trees, Logistic Regression and J48 Decision Trees Methods: A Comparative Study. *Geotechnical and Geological Engineering*, **2017**, 35, 2597-2611	1.5	73
46	A comparative study between popular statistical and machine learning methods for simulating volume of landslides. *Catena*, **2017**, 157, 213-226	5.8	77
45	A comparative study of logistic model tree, random forest, and classification and regression tree models for spatial prediction of landslide susceptibility. *Catena*, **2017**, 151, 147-160	5.8	444
44	Biomass estimation of Sonneratia caseolaris (l.) Engler at a coastal area of Hai Phong city (Vietnam) using ALOS-2 PALSAR imagery and GIS-based multi-layer perceptron neural networks. *GIScience and Remote Sensing*, **2017**, 54, 329-353	4.8	47
43	A novel hybrid integration model using support vector machines and random subspace for weather-triggered landslide susceptibility assessment in the Wuning area (China). *Environmental Earth Sciences*, **2017**, 76, 1	2.9	79
42	Hybrid Intelligent Model Based on Least Squares Support Vector Regression and Artificial Bee Colony Optimization for Time-Series Modeling and Forecasting Horizontal Displacement of Hydropower Dam **2017**, 279-293		6
41	A Bayesian framework based on a Gaussian mixture model and radial-basis-function Fisher discriminant analysis (BayGmmKda□V1.1) for spatial prediction of floods. *Geoscientific Model Development*, **2017**, 10, 3391-3409	6.3	38
40	A novel ensemble classifier of rotation forest and Na□e Bayer for landslide susceptibility assessment at the Luc Yen district, Yen Bai Province (Viet Nam) using GIS. *Geomatics, Natural Hazards and Risk*, **2017**, 8, 649-671	3.6	61
39	Design and implementation of site-specific rainfall-induced landslide early warning and monitoring system: a case study at Nam Dan landslide (Vietnam). *Geomatics, Natural Hazards and Risk*, **2017**, 8, 1978-1996	3.6	20
38	A novel hybrid artificial intelligence approach for flood susceptibility assessment. *Environmental Modelling and Software*, **2017**, 95, 229-245	5.2	272
37	A hybrid artificial intelligence approach using GIS-based neural-fuzzy inference system and particle swarm optimization for forest fire susceptibility modeling at a tropical area. *Agricultural and Forest Meteorology*, **2017**, 233, 32-44	5.8	172
36	Comparison of four kernel functions used in support vector machines for landslide susceptibility mapping: a case study at Suichuan area (China). *Geomatics, Natural Hazards and Risk*, **2017**, 8, 544-569	3.6	67
35	Hybrid integration of Multilayer Perceptron Neural Networks and machine learning ensembles for landslide susceptibility assessment at Himalayan area (India) using GIS. *Catena*, **2017**, 149, 52-63	5.8	330
34	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
33	A Novel Hybrid Approach Based on Instance Based Learning Classifier and Rotation Forest Ensemble for Spatial Prediction of Rainfall-Induced Shallow Landslides using GIS. *Sustainability*, **2017**, 9, 813	3.6	27
32	GIS-based modeling of rainfall-induced landslides using data mining-based functional trees classifier with AdaBoost, Bagging, and MultiBoost ensemble frameworks. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	171
31	A comparative study of different machine learning methods for landslide susceptibility assessment: A case study of Uttarakhand area (India). *Environmental Modelling and Software*, **2016**, 84, 240-250	5.2	289
30	Hybrid artificial intelligence approach based on neural fuzzy inference model and metaheuristic optimization for flood susceptibilitgy modeling in a high-frequency tropical cyclone area using GIS. *Journal of Hydrology*, **2016**, 540, 317-330	6	189

29	Spatial prediction models for shallow landslide hazards: a comparative assessment of the efficacy of support vector machines, artificial neural networks, kernel logistic regression, and logistic model tree. *Landslides*, **2016**, 13, 361-378	6.6	602
28	Rainfall-induced landslide susceptibility assessment at the Chongren area (China) using frequency ratio, certainty factor, and index of entropy. *Geocarto International*, **2016**, 1-16	2.7	81
27	Rotation forest fuzzy rule-based classifier ensemble for spatial prediction of landslides using GIS. *Natural Hazards*, **2016**, 83, 97-127	3	89
26	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. *Geotechnical and Geological Engineering*, **2016**, 34, 1807-1824	1.5	85
25	A Novel Relevance Vector Machine Classifier with Cuckoo Search Optimization for Spatial Prediction of Landslides. *Journal of Computing in Civil Engineering*, **2016**, 30, 04016001	5	42
24	Spatial prediction of landslide hazard at the Luxi area (China) using support vector machines. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	78
23	Tropical Forest Fire Susceptibility Mapping at the Cat Ba National Park Area, Hai Phong City, Vietnam, Using GIS-Based Kernel Logistic Regression. *Remote Sensing*, **2016**, 8, 347	5	86
22	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. *International Journal of Digital Earth*, **2016**, 9, 1077-1097	3.9	103
21	Groutability estimation of grouting processes with cement grouts using Differential Flower Pollination Optimized Support Vector Machine. *Applied Soft Computing Journal*, **2016**, 45, 173-186	7.5	52
20	Spatial prediction of landslide susceptibility using integrated frequency ratio with entropy and support vector machines by different kernel functions. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	32
19	Spatial Prediction of Landslide Hazard at the Yihuang Area (China): A Comparative Study on the Predictive Ability of Backpropagation Multi-layer Perceptron Neural Networks and Radial Basic Function Neural Networks. *Lecture Notes in Geoinformation and Cartography*, **2015**, 175-188	0.3	19
18	A novel hybrid evidential belief function-based fuzzy logic model in spatial prediction of rainfall-induced shallow landslides in the Lang Son city area (Vietnam). *Geomatics, Natural Hazards and Risk*, **2015**, 6, 243-271	3.6	72
17	Optimization of Causative Factors for Landslide Susceptibility Evaluation Using Remote Sensing and GIS Data in Parts of Niigata, Japan. *PLoS ONE*, **2015**, 10, e0133262	3.7	121
16	Spatial prediction of landslide hazard at the Yihuang area (China) using two-class kernel logistic regression, alternating decision tree and support vector machines. *Catena*, **2015**, 133, 266-281	5.8	265
15	A comparative assessment of support vector regression, artificial neural networks, and random forests for predicting and mapping soil organic carbon stocks across an Afromontane landscape. *Ecological Indicators*, **2015**, 52, 394-403	5.8	413
14	Landslide Susceptibility Mapping Along the National Road 32 of Vietnam Using GIS-Based J48 Decision Tree Classifier and Its Ensembles. *Lecture Notes in Geoinformation and Cartography*, **2014**, 303-317	0.3	29
13	A Comparative Assessment Between the Application of Fuzzy Unordered Rules Induction Algorithm and J48 Decision Tree Models in Spatial Prediction of Shallow Landslides at Lang Son City, Vietnam. *Society of Earth Scientists Series*, **2014**, 87-111	0.6	23
12	iGeoTrans – a novel iOS application for GPS positioning in geosciences. *Geocarto International*, **2014**, 1-16	2.7	6

11	Regional prediction of landslide hazard using probability analysis of intense rainfall in the Hoa Binh province, Vietnam. *Natural Hazards*, **2013**, 66, 707-730	3	104
10	Landslide susceptibility mapping at Hoa Binh province (Vietnam) using an adaptive neuro-fuzzy inference system and GIS. *Computers and Geosciences*, **2012**, 45, 199-211	4.5	267
9	Spatial prediction of landslide hazards in Hoa Binh province (Vietnam): A comparative assessment of the efficacy of evidential belief functions and fuzzy logic models. *Catena*, **2012**, 96, 28-40	5.8	289
8	Landslide susceptibility assessment in the Hoa Binh province of Vietnam: A comparison of the Levenberg Marquardt and Bayesian regularized neural networks. *Geomorphology*, **2012**, 171-172, 12-29	4.3	136
7	Landslide Susceptibility Assessment in Vietnam Using Support Vector Machines, Decision Tree, and Na e Bayes Models. *Mathematical Problems in Engineering*, **2012**, 2012, 1-26	1.1	280
6	Landslide susceptibility analysis in the Hoa Binh province of Vietnam using statistical index and logistic regression. *Natural Hazards*, **2011**, 59, 1413-1444	3	228
5	Deformation forecasting of a hydropower dam by hybridizing a long short-term memory deep learning network with the coronavirus optimization algorithm. *Computer-Aided Civil and Infrastructure Engineering*,	8.4	4
4	A comprehensive study of new hybrid models for Adaptive Neuro-Fuzzy Inference System (ANFIS) with Invasive Weed Optimization (IWO), Differential Evolution (DE), Firefly (FA), Particle Swarm Optimization (PSO) and Bees (BA) algorithms for spatial prediction of groundwater spring potential mapping		3
3	Development of a novel hybrid multi-boosting neural network model for spatial prediction of urban flood. *Geocarto International*,1-27	2.7	6
2	Debris flows modeling using geo-environmental factors: developing hybridized deep-learning algorithms. *Geocarto International*,1-25	2.7	9
1	Assessment of the TREELIM model in predicting present treeline along a longitudinal continentality-maritimity gradient in south-western Norway. *Geografiska Annaler, Series A: Physical Geography*,1-19	1.1	