

Dieu Tien Bui

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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.

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	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. <i>Landslides</i> , 2016 , 13, 361-378	6.6	602
243	A comparative study of logistic model tree, random forest, and classification and regression tree models for spatial prediction of landslide susceptibility. <i>Catena</i> , 2017 , 151, 147-160	5.8	444
242	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. <i>Ecological Indicators</i> , 2015 , 52, 394-403	5.8	413
241	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
240	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
239	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
238	Spatial prediction of landslide hazards in Hoa Binh province (Vietnam): A comparative assessment of the efficacy of evidential belief functions and fuzzy logic models. <i>Catena</i> , 2012 , 96, 28-40	5.8	289
237	Landslide Susceptibility Assessment in Vietnam Using Support Vector Machines, Decision Tree, and Naïve Bayes Models. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-26	1.1	280
236	A novel hybrid artificial intelligence approach for flood susceptibility assessment. <i>Environmental Modelling and Software</i> , 2017 , 95, 229-245	5.2	272
235	Landslide susceptibility mapping at Hoa Binh province (Vietnam) using an adaptive neuro-fuzzy inference system and GIS. <i>Computers and Geosciences</i> , 2012 , 45, 199-211	4.5	267
234	Spatial prediction of landslide hazard at the Yihuang area (China) using two-class kernel logistic regression, alternating decision tree and support vector machines. <i>Catena</i> , 2015 , 133, 266-281	5.8	265
233	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
232	Landslide susceptibility analysis in the Hoa Binh province of Vietnam using statistical index and logistic regression. <i>Natural Hazards</i> , 2011 , 59, 1413-1444	3	228
231	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
230	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
229	Hybrid artificial intelligence approach based on neural fuzzy inference model and metaheuristic optimization for flood susceptibility modeling in a high-frequency tropical cyclone area using GIS. <i>Journal of Hydrology</i> , 2016 , 540, 317-330	6	189
228	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. <i>Landslides</i> , 2017 , 14, 447-458	6.6	172

227	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. <i>Agricultural and Forest Meteorology</i> , 2017 , 233, 32-44	5.8	172
226	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
225	Shallow landslide susceptibility assessment using a novel hybrid intelligence approach. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	165
224	Machine learning methods for landslide susceptibility studies: A comparative overview of algorithm performance. <i>Earth-Science Reviews</i> , 2020 , 207, 103225	10.2	162
223	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
222	GIS-based landslide susceptibility evaluation using a novel hybrid integration approach of bivariate statistical based random forest method. <i>Catena</i> , 2018 , 164, 135-149	5.8	152
221	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
220	Landslide susceptibility assessment in the Hoa Binh province of Vietnam: A comparison of the Levenberg-Marquardt and Bayesian regularized neural networks. <i>Geomorphology</i> , 2012 , 171-172, 12-29	4.3	136
219	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
218	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
217	A novel hybrid approach based on a swarm intelligence optimized extreme learning machine for flash flood susceptibility mapping. <i>Catena</i> , 2019 , 179, 184-196	5.8	123
216	Optimization of Causative Factors for Landslide Susceptibility Evaluation Using Remote Sensing and GIS Data in Parts of Niigata, Japan. <i>PLoS ONE</i> , 2015 , 10, e0133262	3.7	121
215	A novel deep learning neural network approach for predicting flash flood susceptibility: A case study at a high frequency tropical storm area. <i>Science of the Total Environment</i> , 2020 , 701, 134413	10.2	120
214	New Hybrids of ANFIS with Several Optimization Algorithms for Flood Susceptibility Modeling. <i>Water (Switzerland)</i> , 2018 , 10, 1210	3	120
213	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
212	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). <i>Remote Sensing</i> , 2018 , 10, 172	5	116
211	Comparing the prediction performance of a Deep Learning Neural Network model with conventional machine learning models in landslide susceptibility assessment. <i>Catena</i> , 2020 , 188, 104426	5.8	113
210	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

209	Prediction of Blast-Induced Ground Vibration in an Open-Pit Mine by a Novel Hybrid Model Based on Clustering and Artificial Neural Network. <i>Natural Resources Research</i> , 2020 , 29, 691-709	4.9	110
208	Regional prediction of landslide hazard using probability analysis of intense rainfall in the Hoa Binh province, Vietnam. <i>Natural Hazards</i> , 2013 , 66, 707-730	3	104
207	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
206	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
205	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. <i>Sensors</i> , 2018 , 18,	3.8	100
204	Groundwater spring potential modelling: Comprising the capability and robustness of three different modeling approaches. <i>Journal of Hydrology</i> , 2018 , 565, 248-261	6	96
203	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
202	Prediction of shear strength of soft soil using machine learning methods. <i>Catena</i> , 2018 , 166, 181-191	5.8	93
201	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
200	Novel Hybrid Evolutionary Algorithms for Spatial Prediction of Floods. <i>Scientific Reports</i> , 2018 , 8, 15364	4.9	92
199	Hybrid Machine Learning Approaches for Landslide Susceptibility Modeling. <i>Forests</i> , 2019 , 10, 157	2.8	91
198	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
197	Spatial Prediction of Landslide Susceptibility Using GIS-Based Data Mining Techniques of ANFIS with Whale Optimization Algorithm (WOA) and Grey Wolf Optimizer (GWO). <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3755	2.6	89
196	Rotation forest fuzzy rule-based classifier ensemble for spatial prediction of landslides using GIS. <i>Natural Hazards</i> , 2016 , 83, 97-127	3	89
195	Land Subsidence Susceptibility Mapping in South Korea Using Machine Learning Algorithms. <i>Sensors</i> , 2018 , 18,	3.8	89
194	Predicting uncertainty of machine learning models for modelling nitrate pollution of groundwater using quantile regression and UNEEC methods. <i>Science of the Total Environment</i> , 2019 , 688, 855-866	10.2	89
193	Landslide Detection and Susceptibility Mapping by AIRSAR Data Using Support Vector Machine and Index of Entropy Models in Cameron Highlands, Malaysia. <i>Remote Sensing</i> , 2018 , 10, 1527	5	88
192	Tropical Forest Fire Susceptibility Mapping at the Cat Ba National Park Area, Hai Phong City, Vietnam, Using GIS-Based Kernel Logistic Regression. <i>Remote Sensing</i> , 2016 , 8, 347	5	86

191	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. <i>Landslides</i> , 2017 , 14, 1-17	6.6	85
190	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
189	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
188	Rainfall-induced landslide susceptibility assessment at the Chongren area (China) using frequency ratio, certainty factor, and index of entropy. <i>Geocarto International</i> , 2016 , 1-16	2.7	81
187	Spatial prediction of groundwater spring potential mapping based on an adaptive neuro-fuzzy inference system and metaheuristic optimization. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 4771-4792	5.5	81
186	Remote Sensing Approaches for Monitoring Mangrove Species, Structure, and Biomass: Opportunities and Challenges. <i>Remote Sensing</i> , 2019 , 11, 230	5	80
185	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
184	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
183	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
182	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
181	Spatial prediction of landslide hazard at the Luxi area (China) using support vector machines. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	78
180	Spatial prediction of landslide susceptibility using data mining-based kernel logistic regression, naive Bayes and RBFNetwork models for the Long County area (China). <i>Bulletin of Engineering Geology and the Environment</i> , 2019 , 78, 247-266	4	78
179	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
178	A Novel Swarm Intelligence-Harris Hawks Optimization for Spatial Assessment of Landslide Susceptibility. <i>Sensors</i> , 2019 , 19,	3.8	76
177	Bagging based Support Vector Machines for spatial prediction of landslides. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	75
176	Novel Soft Computing Model for Predicting Blast-Induced Ground Vibration in Open-Pit Mines Based on Particle Swarm Optimization and XGBoost. <i>Natural Resources Research</i> , 2020 , 29, 711-721	4.9	74
175	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
174	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). <i>Geomatics, Natural Hazards and Risk</i> , 2015 , 6, 243-271	3.6	72

173	A Novel Ensemble Approach for Landslide Susceptibility Mapping (LSM) in Darjeeling and Kalimpong Districts, West Bengal, India. <i>Remote Sensing</i> , 2019 , 11, 2866	5	72
172	A novel ensemble modeling approach for the spatial prediction of tropical forest fire susceptibility using LogitBoost machine learning classifier and multi-source geospatial data. <i>Theoretical and Applied Climatology</i> , 2019 , 137, 637-653	3	72
171	Prediction of soil compression coefficient for urban housing project using novel integration machine learning approach of swarm intelligence and Multi-layer Perceptron Neural Network. <i>Advanced Engineering Informatics</i> , 2018 , 38, 593-604	7.4	72
170	Hybrid computational intelligence models for groundwater potential mapping. <i>Catena</i> , 2019 , 182, 10410518	5.18	69
169	Improving prediction of water quality indices using novel hybrid machine-learning algorithms. <i>Science of the Total Environment</i> , 2020 , 721, 137612	10.2	69
168	Comparison of four kernel functions used in support vector machines for landslide susceptibility mapping: a case study at Suichuan area (China). <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 544-569	3.6	67
167	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
166	Landslide Susceptibility Evaluation and Management Using Different Machine Learning Methods in The Gallicash River Watershed, Iran. <i>Remote Sensing</i> , 2020 , 12, 475	5	66
165	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. <i>Bulletin of Engineering Geology and the Environment</i> , 2018 , 77, 191-204	4	65
164	A novel hybrid artificial intelligent approach based on neural fuzzy inference model and particle swarm optimization for horizontal displacement modeling of hydropower dam. <i>Neural Computing and Applications</i> , 2018 , 29, 1495-1506	4.8	64
163	A comparison of Support Vector Machines and Bayesian algorithms for landslide susceptibility modelling. <i>Geocarto International</i> , 2019 , 34, 1385-1407	2.7	64
162	A Monte Carlo simulation approach for effective assessment of flyrock based on intelligent system of neural network. <i>Engineering With Computers</i> , 2020 , 36, 713-723	4.5	64
161	A Hybrid GIS Multi-Criteria Decision-Making Method for Flood Susceptibility Mapping at Shangyou, China. <i>Remote Sensing</i> , 2019 , 11, 62	5	63
160	Landslide susceptibility assessment at the Wuning area, China: a comparison between multi-criteria decision making, bivariate statistical and machine learning methods. <i>Natural Hazards</i> , 2019 , 96, 173-212 ³	3	63
159	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
158	Uncertainties of prediction accuracy in shallow landslide modeling: Sample size and raster resolution. <i>Catena</i> , 2019 , 178, 172-188	5.8	62
157	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
156	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. <i>Sensors</i> , 2018 , 18,	3.8	61

155	New Ensemble Models for Shallow Landslide Susceptibility Modeling in a Semi-Arid Watershed. <i>Forests</i> , 2019 , 10, 743	2.8	60
154	A Novel Ensemble Artificial Intelligence Approach for Gully Erosion Mapping in a Semi-Arid Watershed (Iran). <i>Sensors</i> , 2019 , 19,	3.8	60
153	PMT: New analytical framework for automated evaluation of geo-environmental modelling approaches. <i>Science of the Total Environment</i> , 2019 , 664, 296-311	10.2	60
152	Landslide Susceptibility Assessment at Mila Basin (Algeria): A Comparative Assessment of Prediction Capability of Advanced Machine Learning Methods. <i>ISPRS International Journal of Geo-Information</i> , 2018 , 7, 268	2.9	60
151	Novel ensembles of COPRAS multi-criteria decision-making with logistic regression, boosted regression tree, and random forest for spatial prediction of gully erosion susceptibility. <i>Science of the Total Environment</i> , 2019 , 688, 903-916	10.2	59
150	Comparison of machine learning models for gully erosion susceptibility mapping. <i>Geoscience Frontiers</i> , 2020 , 11, 1609-1620	6	59
149	Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm. <i>Remote Sensing</i> , 2019 , 11, 931	5	58
148	Land subsidence modelling using tree-based machine learning algorithms. <i>Science of the Total Environment</i> , 2019 , 672, 239-252	10.2	58
147	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). <i>Remote Sensing</i> , 2019 , 11, 128	5	57
146	Image ProcessingBased Classification of Asphalt Pavement Cracks Using Support Vector Machine Optimized by Artificial Bee Colony. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 04018037	5	57
145	Effectiveness assessment of Keras based deep learning with different robust optimization algorithms for shallow landslide susceptibility mapping at tropical area. <i>Catena</i> , 2020 , 188, 104458	5.8	56
144	Spatial prediction of flood potential using new ensembles of bivariate statistics and artificial intelligence: A case study at the Putna river catchment of Romania. <i>Science of the Total Environment</i> , 2019 , 691, 1098-1118	10.2	55
143	Machine learning approaches for spatial modeling of agricultural droughts in the south-east region of Queensland Australia. <i>Science of the Total Environment</i> , 2020 , 699, 134230	10.2	55
142	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. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 391	2.9	54
141	Enhancing Prediction Performance of Landslide Susceptibility Model Using Hybrid Machine Learning Approach of Bagging Ensemble and Logistic Model Tree. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1046	2.6	54
140	Spatial Prediction of Rainfall-Induced Landslides Using Aggregating One-Dependence Estimators Classifier 2018 , 46, 1457-1470		53
139	Identification of areas prone to flash-flood phenomena using multiple-criteria decision-making, bivariate statistics, machine learning and their ensembles. <i>Science of the Total Environment</i> , 2020 , 712, 136492	10.2	53
138	Groutability estimation of grouting processes with cement grouts using Differential Flower Pollination Optimized Support Vector Machine. <i>Applied Soft Computing Journal</i> , 2016 , 45, 173-186	7.5	52

137	A Review of Remote Sensing Approaches for Monitoring Blue Carbon Ecosystems: Mangroves, Seagrasses and Salt Marshes during 2010-2018. <i>Sensors</i> , 2019 , 19,	3.8	51
136	Biomass estimation of <i>Sonneratia caseolaris</i> (L.) Engler at a coastal area of Hai Phong city (Vietnam) using ALOS-2 PALSAR imagery and GIS-based multi-layer perceptron neural networks. <i>GIScience and Remote Sensing</i> , 2017 , 54, 329-353	4.8	47
135	Fuzzy-metaheuristic ensembles for spatial assessment of forest fire susceptibility. <i>Journal of Environmental Management</i> , 2020 , 260, 109867	7.9	47
134	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
133	Flash flood susceptibility modelling using functional tree and hybrid ensemble techniques. <i>Journal of Hydrology</i> , 2020 , 587, 125007	6	45
132	Development of a Novel Hybrid Intelligence Approach for Landslide Spatial Prediction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2824	2.6	45
131	A Hybrid Computational Intelligence Approach to Groundwater Spring Potential Mapping. <i>Water (Switzerland)</i> , 2019 , 11, 2013	3	45
130	Spatial predicting of flood potential areas using novel hybridizations of fuzzy decision-making, bivariate statistics, and machine learning. <i>Journal of Hydrology</i> , 2020 , 585, 124808	6	44
129	The effect of sample size on different machine learning models for groundwater potential mapping in mountain bedrock aquifers. <i>Catena</i> , 2020 , 187, 104421	5.8	44
128	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). <i>Journal of Environmental Management</i> , 2019 , 237, 476-487	7.9	44
127	Intelligent Prediction of Blasting-Induced Ground Vibration Using ANFIS Optimized by GA and PSO. <i>Natural Resources Research</i> , 2020 , 29, 739-750	4.9	44
126	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
125	Genetic and firefly metaheuristic algorithms for an optimized neuro-fuzzy prediction modeling of wildfire probability. <i>Journal of Environmental Management</i> , 2019 , 243, 358-369	7.9	42
124	A Novel Relevance Vector Machine Classifier with Cuckoo Search Optimization for Spatial Prediction of Landslides. <i>Journal of Computing in Civil Engineering</i> , 2016 , 30, 04016001	5	42
123	Prediction of ultimate bearing capacity through various novel evolutionary and neural network models. <i>Engineering With Computers</i> , 2020 , 36, 671-687	4.5	42
122	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. <i>International Journal of Remote Sensing</i> , 2018 , 39, 7761-7788	3.1	41
121	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
120	A comparative study of support vector machine and logistic model tree classifiers for shallow landslide susceptibility modeling. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	38

119	A Bayesian framework based on a Gaussian mixture model and radial-basis-function Fisher discriminant analysis (BayGmmKdaV1.1) for spatial prediction of floods. <i>Geoscientific Model Development</i> , 2017 , 10, 3391-3409	6.3	38
118	Multi-Hazard Exposure Mapping Using Machine Learning Techniques: A Case Study from Iran. <i>Remote Sensing</i> , 2019 , 11, 1943	5	37
117	Machine Learning-Based Gully Erosion Susceptibility Mapping: A Case Study of Eastern India. <i>Sensors</i> , 2020 , 20,	3.8	37
116	Novel hybrid intelligence models for flood-susceptibility prediction: Meta optimization of the GMDH and SVR models with the genetic algorithm and harmony search. <i>Journal of Hydrology</i> , 2020 , 590, 125423	6	37
115	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
114	Optimization of state-of-the-art fuzzy-metaheuristic ANFIS-based machine learning models for flood susceptibility prediction mapping in the Middle Ganga Plain, India. <i>Science of the Total Environment</i> , 2021 , 750, 141565	10.2	36
113	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. <i>Journal of Hydrology</i> , 2019 , 575, 314-326	6	35
112	A tree-based intelligence ensemble approach for spatial prediction of potential groundwater. <i>International Journal of Digital Earth</i> , 2020 , 13, 1408-1429	3.9	35
111	Enhancing nitrate and strontium concentration prediction in groundwater by using new data mining algorithm. <i>Science of the Total Environment</i> , 2020 , 715, 136836	10.2	34
110	Crime rate detection using social media of different crime locations and Twitter part-of-speech tagger with Brown clustering. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 4287-4299	1.6	33
109	Herding Behaviors of grasshopper and Harris hawk for hybridizing the neural network in predicting the soil compression coefficient. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 152, 107389	4.6	33
108	Landslide susceptibility modelling using different advanced decision trees methods. <i>Civil Engineering and Environmental Systems</i> , 2018 , 35, 139-157	2.1	33
107	GIS-based spatial prediction of tropical forest fire danger using a new hybrid machine learning method. <i>Ecological Informatics</i> , 2018 , 48, 104-116	4.2	33
106	Development of novel hybridized models for urban flood susceptibility mapping. <i>Scientific Reports</i> , 2020 , 10, 12937	4.9	32
105	Spatial prediction of landslide susceptibility using integrated frequency ratio with entropy and support vector machines by different kernel functions. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	32
104	Wildfire Probability Mapping: Bivariate vs. Multivariate Statistics. <i>Remote Sensing</i> , 2019 , 11, 618	5	31
103	Development of a novel hybrid intelligent model for solving engineering problems using GS-GMDH algorithm. <i>Engineering With Computers</i> , 2020 , 36, 1379-1391	4.5	31
102	Proposing a Novel Predictive Technique for Gully Erosion Susceptibility Mapping in Arid and Semi-arid Regions (Iran). <i>Remote Sensing</i> , 2019 , 11, 2577	5	30

101	Landslide Susceptibility Mapping Along the National Road 32 of Vietnam Using GIS-Based J48 Decision Tree Classifier and Its Ensembles. <i>Lecture Notes in Geoinformation and Cartography</i> , 2014 , 303-317	4.3	29
100	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). <i>Engineering With Computers</i> , 2020 , 36, 603-616	4.5	29
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