Wei Chen

List of Publications by Citations

196 papers	17,539 citations	78 h-index	127 g-index
198 ext. papers	22,107 ext. citations	4.3 avg, IF	7.8 L-index

#	Paper	IF	Citations
196	Application of fuzzy logic and analytical hierarchy process (AHP) to landslide susceptibility mapping at Haraz watershed, Iran. *Natural Hazards*, **2012**, 63, 965-996	3	559
195	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
194	Application of frequency ratio and weights of evidence models in landslide susceptibility mapping for the Shangzhou District of Shangluo City, China. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	441
193	Landslide susceptibility mapping using certainty factor, index of entropy and logistic regression models in GIS and their comparison at Muglin–Narayanghat road section in Nepal Himalaya. *Natural Hazards*, **2013**, 65, 135-165	3	422
192	Landslide susceptibility mapping using random forest, boosted regression tree, classification and regression tree, and general linear models and comparison of their performance at Wadi Tayyah Basin, Asir Region, Saudi Arabia. *Landslides*, **2016**, 13, 839-856	6.6	376
191	GIS-based groundwater potential mapping using boosted regression tree, classification and regression tree, and random forest machine learning models in Iran. *Environmental Monitoring and Assessment*, **2016**, 188, 44	3.1	327
190	Landslide susceptibility mapping at Golestan Province, Iran: A comparison between frequency ratio, Dempster–Shafer, and weights-of-evidence models. *Journal of Asian Earth Sciences*, **2012**, 61, 221-236	2.8	301
189	Landslide susceptibility mapping using index of entropy and conditional probability models in GIS: Safarood Basin, Iran. *Catena*, **2012**, 97, 71-84	5.8	300
188	Application of GIS-based data driven random forest and maximum entropy models for groundwater potential mapping: A case study at Mehran Region, Iran. *Catena*, **2016**, 137, 360-372	5.8	293
187	Application of frequency ratio, statistical index, and weights-of-evidence models and their comparison in landslide susceptibility mapping in Central Nepal Himalaya. *Arabian Journal of Geosciences*, **2014**, 7, 725-742	1.8	270
186	Application of analytical hierarchy process, frequency ratio, and certainty factor models for groundwater potential mapping using GIS. *Earth Science Informatics*, **2015**, 8, 867-883	2.5	258
185	Groundwater potential mapping at Kurdistan region of Iran using analytic hierarchy process and GIS. *Arabian Journal of Geosciences*, **2015**, 8, 7059-7071	1.8	256
184	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
183	Landslide susceptibility mapping at Vaz Watershed (Iran) using an artificial neural network model: a comparison between multilayer perceptron (MLP) and radial basic function (RBF) algorithms. *Arabian Journal of Geosciences*, **2013**, 6, 2873-2888	1.8	243
182	Landslide susceptibility assessment in Lianhua County (China): A comparison between a random forest data mining technique and bivariate and multivariate statistical models. *Geomorphology*, **2016**, 259, 105-118	4.3	242
181	Flood susceptibility mapping using frequency ratio and weights-of-evidence models in the Golastan Province, Iran. *Geocarto International*, **2016**, 31, 42-70	2.7	228
180	Landslide susceptibility mapping using support vector machine and GIS at the Golestan Province, Iran. *Journal of Earth System Science*, **2013**, 122, 349-369	1.8	224

179	Prediction of the landslide susceptibility: Which algorithm, which precision?. *Catena*, **2018**, 162, 177-192	5.8	223
178	Flood susceptibility mapping using novel ensembles of adaptive neuro fuzzy inference system and metaheuristic algorithms. *Science of the Total Environment*, **2018**, 615, 438-451	10.2	220
177	A GIS-based flood susceptibility assessment and its mapping in Iran: a comparison between frequency ratio and weights-of-evidence bivariate statistical models with multi-criteria decision-making technique. *Natural Hazards*, **2016**, 83, 947-987	3	214
176	Application of weights-of-evidence and certainty factor models and their comparison in landslide susceptibility mapping at Haraz watershed, Iran. *Arabian Journal of Geosciences*, **2013**, 6, 2351-2365	1.8	211
175	Performance evaluation of the GIS-based data mining techniques of best-first decision tree, random forest, and naïve Bayes tree for landslide susceptibility modeling. *Science of the Total Environment*, **2018**, 644, 1006-1018	10.2	206
174	Landslide spatial modeling: Introducing new ensembles of ANN, MaxEnt, and SVM machine learning techniques. *Geoderma*, **2017**, 305, 314-327	6.7	202
173	Performance assessment of individual and ensemble data-mining techniques for gully erosion modeling. *Science of the Total Environment*, **2017**, 609, 764-775	10.2	198
172	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
171	Landslide susceptibility modelling using GIS-based machine learning techniques for Chongren County, Jiangxi Province, China. *Science of the Total Environment*, **2018**, 626, 1121-1135	10.2	191
170	Random forests and evidential belief function-based landslide susceptibility assessment in Western Mazandaran Province, Iran. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	188
169	Flood susceptibility assessment in Hengfeng area coupling adaptive neuro-fuzzy inference system with genetic algorithm and differential evolution. *Science of the Total Environment*, **2018**, 621, 1124-1141	10.2	186
168	Application of fuzzy weight of evidence and data mining techniques in construction of flood susceptibility map of Poyang County, China. *Science of the Total Environment*, **2018**, 625, 575-588	10.2	178
167	GIS-based groundwater spring potential assessment and mapping in the Birjand Township, southern Khorasan Province, Iran. *Hydrogeology Journal*, **2014**, 22, 643-662	3.1	171
166	Groundwater qanat potential mapping using frequency ratio and Shannon's entropy models in the Moghan watershed, Iran. *Earth Science Informatics*, **2015**, 8, 171-186	2.5	168
165	Applying population-based evolutionary algorithms and a neuro-fuzzy system for modeling landslide susceptibility. *Catena*, **2019**, 172, 212-231	5.8	162
164	Landslide susceptibility modeling applying machine learning methods: A case study from Longju in the Three Gorges Reservoir area, China. *Computers and Geosciences*, **2018**, 112, 23-37	4.5	162
163	A Comparative Assessment Between Three Machine Learning Models and Their Performance Comparison by Bivariate and Multivariate Statistical Methods in Groundwater Potential Mapping. *Water Resources Management*, **2015**, 29, 5217-5236	3.7	157
162	GIS-based groundwater potential analysis using novel ensemble weights-of-evidence with logistic regression and functional tree models. *Science of the Total Environment*, **2018**, 634, 853-867	10.2	156

161	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
160	Modeling flood susceptibility using data-driven approaches of naïve Bayes tree, alternating decision tree, and random forest methods. *Science of the Total Environment*, **2020**, 701, 134979	10.2	146
159	An integrated artificial neural network model for the landslide susceptibility assessment of Osado Island, Japan. *Natural Hazards*, **2015**, 78, 1749-1776	3	135
158	Gully erosion susceptibility mapping: the role of GIS-based bivariate statistical models and their comparison. *Natural Hazards*, **2016**, 82, 1231-1258	3	135
157	GIS-based landslide susceptibility modelling: a comparative assessment of kernel logistic regression, Naïve-Bayes tree, and alternating decision tree models. *Geomatics, Natural Hazards and Risk*, **2017**, 8, 950-973	3.6	130
156	A novel hybrid artificial intelligence approach based on the rotation forest ensemble and naïve Bayes tree classifiers for a landslide susceptibility assessment in Langao County, China. *Geomatics, Natural Hazards and Risk*, **2017**, 8, 1955-1977	3.6	127
155	Evaluation of different machine learning models for predicting and mapping the susceptibility of gully erosion. *Geomorphology*, **2017**, 298, 118-137	4.3	125
154	Gully erosion susceptibility assessment and management of hazard-prone areas in India using different machine learning algorithms. *Science of the Total Environment*, **2019**, 668, 124-138	10.2	125
153	Flash flood susceptibility analysis and its mapping using different bivariate models in Iran: a comparison between Shannons entropy, statistical index, and weighting factor models. *Environmental Monitoring and Assessment*, **2016**, 188, 656	3.1	121
152	Flood susceptibility modelling using novel hybrid approach of reduced-error pruning trees with bagging and random subspace ensembles. *Journal of Hydrology*, **2019**, 575, 864-873	6	120
151	New Hybrids of ANFIS with Several Optimization Algorithms for Flood Susceptibility Modeling. *Water (Switzerland)*, **2018**, 10, 1210	3	120
150	Evaluating the influence of geo-environmental factors on gully erosion in a semi-arid region of Iran: An integrated framework. *Science of the Total Environment*, **2017**, 579, 913-927	10.2	115
149	Landslide spatial modelling using novel bivariate statistical based Naïve Bayes, RBF Classifier, and RBF Network machine learning algorithms. *Science of the Total Environment*, **2019**, 663, 1-15	10.2	112
148	A comparative study of landslide susceptibility maps produced using support vector machine with different kernel functions and entropy data mining models in China. *Bulletin of Engineering Geology and the Environment*, **2018**, 77, 647-664	4	112
147	Investigation of general indicators influencing on forest fire and its susceptibility modeling using different data mining techniques. *Ecological Indicators*, **2016**, 64, 72-84	5.8	111
146	Flood susceptibility mapping in Dingnan County (China) using adaptive neuro-fuzzy inference system with biogeography based optimization and imperialistic competitive algorithm. *Journal of Environmental Management*, **2019**, 247, 712-729	7.9	110
145	A GIS-based comparative study of Dempster-Shafer, logistic regression and artificial neural network models for landslide susceptibility mapping. *Geocarto International*, **2017**, 32, 367-385	2.7	108
144	GIS-based multivariate adaptive regression spline and random forest models for groundwater potential mapping in Iran. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	108

143	Landslide Susceptibility Modeling Based on GIS and Novel Bagging-Based Kernel Logistic Regression. *Applied Sciences (Switzerland)*, **2018**, 8, 2540	2.6	108
142	Spatial modelling of gully erosion in Mazandaran Province, northern Iran. *Catena*, **2018**, 161, 1-13	5.8	106
141	Analysis and evaluation of landslide susceptibility: a review on articles published during 2005–2016 (periods of 2005–2012 and 2013–2016). *Arabian Journal of Geosciences*, **2018**, 11, 1	1.8	102
140	Spatial prediction of groundwater potentiality using ANFIS ensembled with teaching-learning-based and biogeography-based optimization. *Journal of Hydrology*, **2019**, 572, 435-448	6	101
139	Assessment of a data-driven evidential belief function model and GIS for groundwater potential mapping in the Koohrang Watershed, Iran. *Geocarto International*, **2015**, 30, 662-685	2.7	100
138	Applying Information Theory and GIS-based quantitative methods to produce landslide susceptibility maps in Nancheng County, China. *Landslides*, **2017**, 14, 1091-1111	6.6	100
137	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. *Sensors*, **2018**, 18,	3.8	100
136	GIS-based spatial prediction of flood prone areas using standalone frequency ratio, logistic regression, weight of evidence and their ensemble techniques. *Geomatics, Natural Hazards and Risk*, **2017**, 8, 1538-1561	3.6	98
135	Assessment of the importance of gully erosion effective factors using Boruta algorithm and its spatial modeling and mapping using three machine learning algorithms. *Geoderma*, **2019**, 340, 55-69	6.7	96
134	Landslide susceptibility modeling in a landslide prone area in Mazandarn Province, north of Iran: a comparison between GLM, GAM, MARS, and M-AHP methods. *Theoretical and Applied Climatology*, **2017**, 130, 609-633	3	95
133	Novel Hybrid Evolutionary Algorithms for Spatial Prediction of Floods. *Scientific Reports*, **2018**, 8, 15364	4.9	92
132	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
131	Land Subsidence Susceptibility Mapping in South Korea Using Machine Learning Algorithms. *Sensors*, **2018**, 18,	3.8	89
130	A comparison between ten advanced and soft computing models for groundwater qanat potential assessment in Iran using R and GIS. *Theoretical and Applied Climatology*, **2018**, 131, 967-984	3	88
129	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
128	Novel hybrid artificial intelligence approach of bivariate statistical-methods-based kernel logistic regression classifier for landslide susceptibility modeling. *Bulletin of Engineering Geology and the Environment*, **2019**, 78, 4397-4419	4	87
127	GIS-based landslide spatial modeling in Ganzhou City, China. *Arabian Journal of Geosciences*, **2016**, 9, 1	1.8	86
126	A hybrid fuzzy weight of evidence method in landslide susceptibility analysis on the Wuyuan area, China. *Geomorphology*, **2017**, 290, 1-16	4.3	84

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	GIS-based assessment of landslide susceptibility using certainty factor and index of entropy models for the Qianyang County of Baoji city, China. *Journal of Earth System Science*, **2015**, 124, 1399-1415	1.8	81
123	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
122	A novel ensemble approach of bivariate statistical-based logistic model tree classifier for landslide susceptibility assessment. *Geocarto International*, **2018**, 33, 1398-1420	2.7	80
121	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
120	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
119	GIS-based gully erosion susceptibility mapping: a comparison among three data-driven models and AHP knowledge-based technique. *Environmental Earth Sciences*, **2018**, 77, 1	2.9	78
118	Novel Hybrid Integration Approach of Bagging-Based Fisher's Linear Discriminant Function for Groundwater Potential Analysis. *Natural Resources Research*, **2019**, 28, 1239-1258	4.9	77
117	Landslide Susceptibility Modeling Using Integrated Ensemble Weights of Evidence with Logistic Regression and Random Forest Models. *Applied Sciences (Switzerland)*, **2019**, 9, 171	2.6	77
116	Spatial prediction of groundwater potential mapping based on convolutional neural network (CNN) and support vector regression (SVR). *Journal of Hydrology*, **2020**, 588, 125033	6	76
115	Prioritization of landslide conditioning factors and its spatial modeling in Shangnan County, China using GIS-based data mining algorithms. *Bulletin of Engineering Geology and the Environment*, **2018**, 77, 611-629	4	74
114	Groundwater spring potential mapping using population-based evolutionary algorithms and data mining methods. *Science of the Total Environment*, **2019**, 684, 31-49	10.2	73
113	Flood susceptibility mapping using geospatial frequency ratio technique: a case study of Subarnarekha River Basin, India. *Modeling Earth Systems and Environment*, **2018**, 4, 395-408	3.2	73
112	Spatial Modelling of Gully Erosion Using GIS and R Programing: A Comparison among Three Data Mining Algorithms. *Applied Sciences (Switzerland)*, **2018**, 8, 1369	2.6	73
111	Shallow Landslide Susceptibility Mapping: A Comparison between Logistic Model Tree, Logistic Regression, Naïve Bayes Tree, Artificial Neural Network, and Support Vector Machine Algorithms. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	73
110	GIS-based evaluation of landslide susceptibility using hybrid computational intelligence models. *Catena*, **2020**, 195, 104777	5.8	72
109	Spatial modelling of gully erosion using evidential belief function, logistic regression, and a new ensemble of evidential belief function–logistic regression algorithm. *Land Degradation and Development*, **2018**, 29, 4035-4049	4.4	72
108	Landslide susceptibility mapping using machine learning algorithms and comparison of their performance at Abha Basin, Asir Region, Saudi Arabia. *Geoscience Frontiers*, **2021**, 12, 639-655	6	71

107	Multi-hazard probability assessment and mapping in Iran. *Science of the Total Environment*, **2019**, 692, 556-571	10.2	70
106	Forest fire susceptibility mapping in the Minudasht forests, Golestan province, Iran. *Environmental Earth Sciences*, **2015**, 73, 1515-1533	2.9	70
105	Landslide susceptibility mapping along Bhalubang Shiwapur area of mid-Western Nepal using frequency ratio and conditional probability models. *Journal of Mountain Science*, **2014**, 11, 1266-1285	2.1	69
104	Evaluating the usage of tree-based ensemble methods in groundwater spring potential mapping. *Journal of Hydrology*, **2020**, 583, 124602	6	68
103	GIS-based landslide susceptibility assessment using optimized hybrid machine learning methods. *Catena*, **2021**, 196, 104833	5.8	68
102	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
101	Landslide susceptibility modeling based on ANFIS with teaching-learning-based optimization and Satin bowerbird optimizer. *Geoscience Frontiers*, **2021**, 12, 93-107	6	67
100	Comparison of differences in resolution and sources of controlling factors for gully erosion susceptibility mapping. *Geoderma*, **2018**, 330, 65-78	6.7	67
99	Landslide Susceptibility Evaluation and Management Using Different Machine Learning Methods in The Gallicash River Watershed, Iran. *Remote Sensing*, **2020**, 12, 475	5	66
98	A comparative assessment between linear and quadratic discriminant analyses (LDA-QDA) with frequency ratio and weights-of-evidence models for forest fire susceptibility mapping in China. *Arabian Journal of Geosciences*, **2017**, 10, 1	1.8	65
97	GIS-based landslide susceptibility mapping using analytical hierarchy process (AHP) and certainty factor (CF) models for the Baozhong region of Baoji City, China. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	65
96	Prioritization of effective factors in the occurrence of land subsidence and its susceptibility mapping using an SVM model and their different kernel functions. *Bulletin of Engineering Geology and the Environment*, **2019**, 78, 4017-4034	4	65
95	Spatial prediction of landslide susceptibility by combining evidential belief function, logistic regression and logistic model tree. *Geocarto International*, **2019**, 34, 1177-1201	2.7	63
94	A Hybrid GIS Multi-Criteria Decision-Making Method for Flood Susceptibility Mapping at Shangyou, China. *Remote Sensing*, **2019**, 11, 62	5	63
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	GIS-based forest fire susceptibility mapping in Iran: a comparison between evidential belief function and binary logistic regression models. *Scandinavian Journal of Forest Research*, **2016**, 31, 80-98	1.7	62
91	PMT: New analytical framework for automated evaluation of geo-environmental modelling approaches. *Science of the Total Environment*, **2019**, 664, 296-311	10.2	60
90	A GIS-based comparative study of frequency ratio, statistical index and weights-of-evidence models in landslide susceptibility mapping. *Arabian Journal of Geosciences*, **2016**, 9, 1	1.8	59

89	Comparison of machine learning models for gully erosion susceptibility mapping. *Geoscience Frontiers*, **2020**, 11, 1609-1620	6	59
88	Optimization of Computational Intelligence Models for Landslide Susceptibility Evaluation. *Remote Sensing*, **2020**, 12, 2180	5	58
87	Landslide susceptibility maps using different probabilistic and bivariate statistical models and comparison of their performance at Wadi Itwad Basin, Asir Region, Saudi Arabia. *Bulletin of Engineering Geology and the Environment*, **2016**, 75, 63-87	4	57
86	Spatial prediction of landslide susceptibility using hybrid support vector regression (SVR) and the adaptive neuro-fuzzy inference system (ANFIS) with various metaheuristic algorithms. *Science of the Total Environment*, **2020**, 741, 139937	10.2	55
85	Spatial modeling, risk mapping, change detection, and outbreak trend analysis of coronavirus (COVID-19) in Iran (days between February 19 and June 14, 2020). *International Journal of Infectious Diseases*, **2020**, 98, 90-108	10.5	53
84	Shallow Landslide Susceptibility Mapping by Random Forest Base Classifier and Its Ensembles in a Semi-Arid Region of Iran. *Forests*, **2020**, 11, 421	2.8	53
83	Hybrid Integration Approach of Entropy with Logistic Regression and Support Vector Machine for Landslide Susceptibility Modeling. *Entropy*, **2018**, 20,	2.8	51
82	Groundwater Spring Potential Mapping Using Artificial Intelligence Approach Based on Kernel Logistic Regression, Random Forest, and Alternating Decision Tree Models. *Applied Sciences (Switzerland)*, **2020**, 10, 425	2.6	50
81	Gully headcut susceptibility modeling using functional trees, naïve Bayes tree, and random forest models. *Geoderma*, **2019**, 342, 1-11	6.7	48
80	GIS-Based Evaluation of Landslide Susceptibility Models Using Certainty Factors and Functional Trees-Based Ensemble Techniques. *Applied Sciences (Switzerland)*, **2020**, 10, 16	2.6	48
79	Assessment of Landslide-Prone Areas and Their Zonation Using Logistic Regression, LogitBoost, and NaïveBayes Machine-Learning Algorithms. *Sustainability*, **2018**, 10, 3697	3.6	48
78	Landslide Susceptibility Mapping Using Machine Learning Algorithms and Remote Sensing Data in a Tropical Environment. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	46
77	Flash flood susceptibility modelling using functional tree and hybrid ensemble techniques. *Journal of Hydrology*, **2020**, 587, 125007	6	45
76	A Hybrid Computational Intelligence Approach to Groundwater Spring Potential Mapping. *Water (Switzerland)*, **2019**, 11, 2013	3	45
75	Novel Entropy and Rotation Forest-Based Credal Decision Tree Classifier for Landslide Susceptibility Modeling. *Entropy*, **2019**, 21,	2.8	44
74	GIS-Based Gully Erosion Susceptibility Mapping: A Comparison of Computational Ensemble Data Mining Models. *Applied Sciences (Switzerland)*, **2020**, 10, 2039	2.6	44
73	Landslide Susceptibility Evaluation Using Hybrid Integration of Evidential Belief Function and Machine Learning Techniques. *Water (Switzerland)*, **2020**, 12, 113	3	43
72	A Comparative Assessment of Random Forest and k-Nearest Neighbor Classifiers for Gully Erosion Susceptibility Mapping. *Water (Switzerland)*, **2019**, 11, 2076	3	42

71	Landslide susceptibility mapping based on GIS and information value model for the Chencang District of Baoji, China. *Arabian Journal of Geosciences*, **2014**, 7, 4499-4511	1.8	42
70	Is multi-hazard mapping effective in assessing natural hazards and integrated watershed management?. *Geoscience Frontiers*, **2020**, 11, 1203-1217	6	42
69	GIS-Based Machine Learning Algorithms for Gully Erosion Susceptibility Mapping in a Semi-Arid Region of Iran. *Remote Sensing*, **2020**, 12, 2478	5	41
68	Application of frequency ratio, statistical index, and index of entropy models and their comparison in landslide susceptibility mapping for the Baozhong Region of Baoji, China. *Arabian Journal of Geosciences*, **2015**, 8, 1829-1841	1.8	40
67	Application of frequency ratio, weights of evidence and evidential belief function models in landslide susceptibility mapping. *Geocarto International*, **2016**, 1-21	2.7	40
66	Investigating the effects of different landslide positioning techniques, landslide partitioning approaches, and presence-absence balances on landslide susceptibility mapping. *Catena*, **2020**, 187, 104364	5.8	40
65	Hybrid Computational Intelligence Methods for Landslide Susceptibility Mapping. *Symmetry*, **2020**, 12, 325	2.7	39
64	Remote Sensing Data Derived Parameters and its Use in Landslide Susceptibility Assessment Using Shannon Entropy and GIS. *Applied Mechanics and Materials*, **2012**, 225, 486-491	0.3	38
63	Spatial modelling of gully headcuts using UAV data and four best-first decision classifier ensembles (BFTree, Bag-BFTree, RS-BFTree, and RF-BFTree). *Geomorphology*, **2019**, 329, 184-193	4.3	38
62	Applying different scenarios for landslide spatial modeling using computational intelligence methods. *Environmental Earth Sciences*, **2017**, 76, 1	2.9	37
61	Evaluation of different boosting ensemble machine learning models and novel deep learning and boosting framework for head-cut gully erosion susceptibility. *Journal of Environmental Management*, **2021**, 284, 112015	7.9	37
60	Landslide susceptibility mapping based on GIS and support vector machine models for the Qianyang County, China. *Environmental Earth Sciences*, **2016**, 75, 1	2.9	35
59	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
58	SEVUCAS: A Novel GIS-Based Machine Learning Software for Seismic Vulnerability Assessment. *Applied Sciences (Switzerland)*, **2019**, 9, 3495	2.6	31
57	Spatial Prediction of Landslides Using Hybrid Integration of Artificial Intelligence Algorithms with Frequency Ratio and Index of Entropy in Nanzheng County, China. *Applied Sciences (Switzerland)*, **2020**, 10, 29	2.6	31
56	Spatial Prediction of Landslide Susceptibility Based on GIS and Discriminant Functions. *ISPRS International Journal of Geo-Information*, **2020**, 9, 144	2.9	29
55	Landslide Detection and Susceptibility Modeling on Cameron Highlands (Malaysia): A Comparison between Random Forest, Logistic Regression and Logistic Model Tree Algorithms. *Forests*, **2020**, 11, 830	2.8	29
54	A machine learning framework for multi-hazards modeling and mapping in a mountainous area. *Scientific Reports*, **2020**, 10, 12144	4.9	28

53	A comparative study on groundwater spring potential analysis based on statistical index, index of entropy and certainty factors models. *Geocarto International*, **2018**, 33, 754-769	2.7	26
52	Combining Evolutionary Algorithms and Machine Learning Models in Landslide Susceptibility Assessments. *Remote Sensing*, **2020**, 12, 3854	5	26
51	Soil erosion assessment using RUSLE model and its validation by FR probability model. *Geocarto International*, **2020**, 35, 1750-1768	2.7	26
50	Hybrid Computational Intelligence Models for Improvement Gully Erosion Assessment. *Remote Sensing*, **2020**, 12, 140	5	25
49	An assessment of metaheuristic approaches for flood assessment. *Journal of Hydrology*, **2020**, 582, 124536	3.6	25
48	Performance Evaluation of GIS-Based Artificial Intelligence Approaches for Landslide Susceptibility Modeling and Spatial Patterns Analysis. *ISPRS International Journal of Geo-Information*, **2020**, 9, 443	2.9	25
47	Evaluation of Recent Advanced Soft Computing Techniques for Gully Erosion Susceptibility Mapping: A Comparative Study. *Sensors*, **2020**, 20,	3.8	24
46	Using machine learning algorithms to map the groundwater recharge potential zones. *Journal of Environmental Management*, **2020**, 265, 110525	7.9	24
45	Evaluation of factors affecting gully headcut location using summary statistics and the maximum entropy model: Golestan Province, NE Iran. *Science of the Total Environment*, **2019**, 677, 281-298	10.2	23
44	Spatial prediction of rotational landslide using geographically weighted regression, logistic regression, and support vector machine models in Xing Guo area (China). *Geomatics, Natural Hazards and Risk*, **2017**, 8, 1997-2022	3.6	23
43	Landslide Susceptibility Mapping Using GIS-Based Data Mining Algorithms. *Water (Switzerland)*, **2019**, 11, 2292	3	23
42	Groundwater spring potential assessment using new ensemble data mining techniques. *Measurement: Journal of the International Measurement Confederation*, **2020**, 157, 107652	4.6	22
41	Gully Head-Cut Distribution Modeling Using Machine Learning Methods: A Case Study of N.W. Iran. *Water (Switzerland)*, **2020**, 12, 16	3	21
40	A Novel Intelligence Approach of a Sequential Minimal Optimization-Based Support Vector Machine for Landslide Susceptibility Mapping. *Sustainability*, **2019**, 11, 6323	3.6	21
39	A comparative study of statistical index and certainty factor models in landslide susceptibility mapping: a case study for the Shangzhou District, Shaanxi Province, China. *Arabian Journal of Geosciences*, **2015**, 8, 9079-9088	1.8	20
38	Sedimentological characteristics and application of machine learning techniques for landslide susceptibility modelling along the highway corridor Nahan to Rajgarh (Himachal Pradesh), India. *Catena*, **2019**, 182, 104150	5.8	20
37	Evaluation efficiency of hybrid deep learning algorithms with neural network decision tree and boosting methods for predicting groundwater potential. *Geocarto International*, **2021**, 1-21	2.7	18
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