Khabat Khosravi

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69 107 12,925 193 h-index g-index citations papers 16,707 7.46 201 4.5 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
193	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
192	Application of frequency ratio and weights of evidence models in landslide susceptibility mapping for the Shangzhou District of Shangluo City, China. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	441
191	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
190	A novel hybrid artificial intelligence approach for flood susceptibility assessment. <i>Environmental Modelling and Software</i> , 2017 , 95, 229-245	5.2	272
189	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
188	A comparative assessment of flood susceptibility modeling using Multi-Criteria Decision-Making Analysis and Machine Learning Methods. <i>Journal of Hydrology</i> , 2019 , 573, 311-323	6	228
187	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
186	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. <i>Natural Hazards</i> , 2016 , 83, 947-987	3	214
185	Landslide susceptibility mapping using GIS-based statistical models and Remote sensing data in tropical environment. <i>Scientific Reports</i> , 2015 , 5, 9899	4.9	208
184	Performance evaluation of the GIS-based data mining techniques of best-first decision tree, random forest, and naWe Bayes tree for landslide susceptibility modeling. <i>Science of the Total Environment</i> , 2018 , 644, 1006-1018	10.2	206
183	Landslide susceptibility mapping at central Zab basin, Iran: A comparison between analytical hierarchy process, frequency ratio and logistic regression models. <i>Catena</i> , 2014 , 115, 55-70	5.8	206
182	Landslide spatial modeling: Introducing new ensembles of ANN, MaxEnt, and SVM machine learning techniques. <i>Geoderma</i> , 2017 , 305, 314-327	6.7	202
181	Landslide susceptibility modelling using GIS-based machine learning techniques for Chongren County, Jiangxi Province, China. <i>Science of the Total Environment</i> , 2018 , 626, 1121-1135	10.2	191
180	Performance evaluation of GIS-based new ensemble data mining techniques of adaptive neuro-fuzzy inference system (ANFIS) with genetic algorithm (GA), differential evolution (DE), and particle swarm optimization (PSO) for landslide spatial modelling. <i>Catena</i> , 2017 , 157, 310-324	5.8	188
179	Flood susceptibility assessment in Hengfeng area coupling adaptive neuro-fuzzy inference system with genetic algorithm and differential evolution. <i>Science of the Total Environment</i> , 2018 , 621, 1124-114	41 ^{0.2}	186
178	Application of fuzzy weight of evidence and data mining techniques in construction of flood susceptibility map of Poyang County, China. <i>Science of the Total Environment</i> , 2018 , 625, 575-588	10.2	178
177	Shallow landslide susceptibility assessment using a novel hybrid intelligence approach. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	165

176	Applying population-based evolutionary algorithms and a neuro-fuzzy system for modeling landslide susceptibility. <i>Catena</i> , 2019 , 172, 212-231	5.8	162
175	Spatial prediction of landslide susceptibility using an adaptive neuro-fuzzy inference system combined with frequency ratio, generalized additive model, and support vector machine techniques. <i>Geomorphology</i> , 2017 , 297, 69-85	4.3	160
174	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
173	GIS-based groundwater potential analysis using novel ensemble weights-of-evidence with logistic regression and functional tree models. <i>Science of the Total Environment</i> , 2018 , 634, 853-867	10.2	156
172	Novel forecasting approaches using combination of machine learning and statistical models for flood susceptibility mapping. <i>Journal of Environmental Management</i> , 2018 , 217, 1-11	7.9	147
171	Modeling flood susceptibility using data-driven approaches of nalle Bayes tree, alternating decision tree, and random forest methods. <i>Science of the Total Environment</i> , 2020 , 701, 134979	10.2	146
170	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
169	GIS-based landslide susceptibility modelling: a comparative assessment of kernel logistic regression, NaMe-Bayes tree, and alternating decision tree models. <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 950-973	3.6	130
168	A novel hybrid artificial intelligence approach based on the rotation forest ensemble and nawe Bayes tree classifiers for a landslide susceptibility assessment in Langao County, China. <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 1955-1977	3.6	127
167	Hybrid artificial intelligence models based on a neuro-fuzzy system and metaheuristic optimization algorithms for spatial prediction of wildfire probability. <i>Agricultural and Forest Meteorology</i> , 2019 , 266-267, 198-207	5.8	123
166	Flash flood susceptibility analysis and its mapping using different bivariate models in Iran: a comparison between Shannons entropy, statistical index, and weighting factor models. <i>Environmental Monitoring and Assessment</i> , 2016 , 188, 656	3.1	121
165	Flood susceptibility modelling using novel hybrid approach of reduced-error pruning trees with bagging and random subspace ensembles. <i>Journal of Hydrology</i> , 2019 , 575, 864-873	6	120
164	New Hybrids of ANFIS with Several Optimization Algorithms for Flood Susceptibility Modeling. <i>Water (Switzerland)</i> , 2018 , 10, 1210	3	120
163	Landslide spatial modelling using novel bivariate statistical based NaWe Bayes, RBF Classifier, and RBF Network machine learning algorithms. <i>Science of the Total Environment</i> , 2019 , 663, 1-15	10.2	112
162	A comparative study of landslide susceptibility maps produced using support vector machine with different kernel functions and entropy data mining models in China. <i>Bulletin of Engineering Geology and the Environment</i> , 2018 , 77, 647-664	4	112
161	Flood susceptibility mapping in Dingnan County (China) using adaptive neuro-fuzzy inference system with biogeography based optimization and imperialistic competitive algorithm. <i>Journal of Environmental Management</i> , 2019 , 247, 712-729	7.9	110
160	A GIS-based comparative study of Dempster-Shafer, logistic regression and artificial neural network models for landslide susceptibility mapping. <i>Geocarto International</i> , 2017 , 32, 367-385	2.7	108
159	Landslide Susceptibility Modeling Based on GIS and Novel Bagging-Based Kernel Logistic Regression. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2540	2.6	108

158	Modelling gully-erosion susceptibility in a semi-arid region, Iran: Investigation of applicability of certainty factor and maximum entropy models. <i>Science of the Total Environment</i> , 2019 , 655, 684-696	10.2	103
157	Remote sensing and GIS-based landslide susceptibility mapping using frequency ratio, logistic regression, and fuzzy logic methods at the central Zab basin, Iran. <i>Environmental Earth Sciences</i> , 2015 , 73, 8647-8668	2.9	102
156	Spatial prediction of groundwater potentiality using ANFIS ensembled with teaching-learning-based and biogeography-based optimization. <i>Journal of Hydrology</i> , 2019 , 572, 435-44	.86	101
155	Applying Information Theory and GIS-based quantitative methods to produce landslide susceptibility maps in Nancheng County, China. <i>Landslides</i> , 2017 , 14, 1091-1111	6.6	100
154	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. <i>Sensors</i> , 2018 , 18,	3.8	100
153	Quantifying hourly suspended sediment load using data mining models: Case study of a glacierized Andean catchment in Chile. <i>Journal of Hydrology</i> , 2018 , 567, 165-179	6	99
152	Mapping Groundwater Potential Using a Novel Hybrid Intelligence Approach. <i>Water Resources Management</i> , 2019 , 33, 281-302	3.7	97
151	Flood Detection and Susceptibility Mapping Using Sentinel-1 Remote Sensing Data and a Machine Learning Approach: Hybrid Intelligence of Bagging Ensemble Based on K-Nearest Neighbor Classifier. <i>Remote Sensing</i> , 2020 , 12, 266	5	96
150	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
149	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
148	Novel Hybrid Evolutionary Algorithms for Spatial Prediction of Floods. <i>Scientific Reports</i> , 2018 , 8, 15364	· 4·9	92
147	Hybrid Machine Learning Approaches for Landslide Susceptibility Modeling. <i>Forests</i> , 2019 , 10, 157	2.8	91
146	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
145	Land Subsidence Susceptibility Mapping in South Korea Using Machine Learning Algorithms. <i>Sensors</i> , 2018 , 18,	3.8	89
144	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
143	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
142	Landslide Susceptibility Assessment by Novel Hybrid Machine Learning Algorithms. <i>Sustainability</i> , 2019 , 11, 4386	3.6	87
141	Novel hybrid artificial intelligence approach of bivariate statistical-methods-based kernel logistic regression classifier for landslide susceptibility modeling. <i>Bulletin of Engineering Geology and the Environment</i> 2019 78, 4397-4419	4	87

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140	A hybrid fuzzy weight of evidence method in landslide susceptibility analysis on the Wuyuan area, China. <i>Geomorphology</i> , 2017 , 290, 1-16	4.3	84	
139	Landslide Susceptibility Mapping Using Different GIS-Based Bivariate Models. <i>Water (Switzerland)</i> , 2019 , 11, 1402	3	82	
138	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	
137	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-	4 7 92	81	
136	A novel ensemble approach of bivariate statistical-based logistic model tree classifier for landslide susceptibility assessment. <i>Geocarto International</i> , 2018 , 33, 1398-1420	2.7	80	
135	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	
134	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	
133	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	
132	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	
131	Novel Hybrid Integration Approach of Bagging-Based Fisher Linear Discriminant Function for Groundwater Potential Analysis. <i>Natural Resources Research</i> , 2019 , 28, 1239-1258	4.9	77	
130	Landslide Susceptibility Modeling Using Integrated Ensemble Weights of Evidence with Logistic Regression and Random Forest Models. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 171	2.6	77	
129	Prioritization of landslide conditioning factors and its spatial modeling in Shangnan County, China using GIS-based data mining algorithms. <i>Bulletin of Engineering Geology and the Environment</i> , 2018 , 77, 611-629	4	74	
128	Groundwater spring potential mapping using population-based evolutionary algorithms and data mining methods. <i>Science of the Total Environment</i> , 2019 , 684, 31-49	10.2	73	
127	Shallow Landslide Susceptibility Mapping: A Comparison between Logistic Model Tree, Logistic Regression, NaWe Bayes Tree, Artificial Neural Network, and Support Vector Machine Algorithms. International Journal of Environmental Research and Public Health, 2020, 17,	4.6	73	
126	GIS-based evaluation of landslide susceptibility using hybrid computational intelligence models. <i>Catena</i> , 2020 , 195, 104777	5.8	72	
125	Evaluation of deep learning algorithms for national scale landslide susceptibility mapping of Iran. <i>Geoscience Frontiers</i> , 2021 , 12, 505-519	6	70	
124	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	
123	Evaluating the usage of tree-based ensemble methods in groundwater spring potential mapping. Journal of Hydrology, 2020 , 583, 124602	6	68	

122	GIS-based landslide susceptibility assessment using optimized hybrid machine learning methods. <i>Catena</i> , 2021 , 196, 104833	5.8	68
121	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
120	Landslide susceptibility modeling based on ANFIS with teaching-learning-based optimization and Satin bowerbird optimizer. <i>Geoscience Frontiers</i> , 2021 , 12, 93-107	6	67
119	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
118	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
117	Meteorological data mining and hybrid data-intelligence models for reference evaporation simulation: A case study in Iraq. <i>Computers and Electronics in Agriculture</i> , 2019 , 167, 105041	6.5	66
116	GIS-based landslide susceptibility mapping using analytical hierarchy process (AHP) and certainty factor (CF) models for the Baozhong region of Baoji City, China. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	65
115	A comparison of Support Vector Machines and Bayesian algorithms for landslide susceptibility modelling. <i>Geocarto International</i> , 2019 , 34, 1385-1407	2.7	64
114	Application and Comparison of Decision Tree-Based Machine Learning Methods in Landside Susceptibility Assessment at Pauri Garhwal Area, Uttarakhand, India. <i>Environmental Processes</i> , 2017 , 4, 711-730	2.8	64
113	Spatial prediction of landslide susceptibility by combining evidential belief function, logistic regression and logistic model tree. <i>Geocarto International</i> , 2019 , 34, 1177-1201	2.7	63
112	A Hybrid GIS Multi-Criteria Decision-Making Method for Flood Susceptibility Mapping at Shangyou, China. <i>Remote Sensing</i> , 2019 , 11, 62	5	63
111	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	23	63
110	Uncertainties of prediction accuracy in shallow landslide modeling: Sample size and raster resolution. <i>Catena</i> , 2019 , 178, 172-188	5.8	62
109	New Ensemble Models for Shallow Landslide Susceptibility Modeling in a Semi-Arid Watershed. <i>Forests</i> , 2019 , 10, 743	2.8	60
108	A Novel Ensemble Artificial Intelligence Approach for Gully Erosion Mapping in a Semi-Arid Watershed (Iran). <i>Sensors</i> , 2019 , 19,	3.8	60
107	Comparison of machine learning models for gully erosion susceptibility mapping. <i>Geoscience Frontiers</i> , 2020 , 11, 1609-1620	6	59
106	Drought sensitivity mapping using two one-class support vector machine algorithms. <i>Atmospheric Research</i> , 2017 , 193, 73-82	5.4	58
105	Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm. <i>Remote Sensing</i> , 2019 , 11, 931	5	58

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104	Optimization of Computational Intelligence Models for Landslide Susceptibility Evaluation. <i>Remote Sensing</i> , 2020 , 12, 2180	5	58
103	Fuzzy Shannon Entropy: A Hybrid GIS-Based Landslide Susceptibility Mapping Method. <i>Entropy</i> , 2016 , 18, 343	2.8	56
102	Social Vulnerability Assessment Using Artificial Neural Network (ANN) Model for Earthquake Hazard in Tabriz City, Iran. <i>Sustainability</i> , 2018 , 10, 3376	3.6	55
101	Shallow Landslide Susceptibility Mapping by Random Forest Base Classifier and Its Ensembles in a Semi-Arid Region of Iran. <i>Forests</i> , 2020 , 11, 421	2.8	53
100	Hybrid Integration Approach of Entropy with Logistic Regression and Support Vector Machine for Landslide Susceptibility Modeling. <i>Entropy</i> , 2018 , 20,	2.8	51
99	Groundwater Spring Potential Mapping Using Artificial Intelligence Approach Based on Kernel Logistic Regression, Random Forest, and Alternating Decision Tree Models. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 425	2.6	50
98	Determination of compound channel apparent shear stress: application of novel data mining models. <i>Journal of Hydroinformatics</i> , 2019 , 21, 798-811	2.6	49
97	Rock fall susceptibility assessment along a mountainous road: an evaluation of bivariate statistic, analytical hierarchy process and frequency ratio. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	48
96	GIS-Based Evaluation of Landslide Susceptibility Models Using Certainty Factors and Functional Trees-Based Ensemble Techniques. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 16	2.6	48
95	Landslide Susceptibility Mapping Using Machine Learning Algorithms and Remote Sensing Data in a Tropical Environment. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	46
94	The potential of novel data mining models for global solar radiation prediction. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 7147-7164	3.3	45
93	Flash flood susceptibility modelling using functional tree and hybrid ensemble techniques. <i>Journal of Hydrology</i> , 2020 , 587, 125007	6	45
92	Development of a Novel Hybrid Intelligence Approach for Landslide Spatial Prediction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2824	2.6	45
91	A Hybrid Computational Intelligence Approach to Groundwater Spring Potential Mapping. <i>Water</i> (Switzerland), 2019 , 11, 2013	3	45
90	Novel Entropy and Rotation Forest-Based Credal Decision Tree Classifier for Landslide Susceptibility Modeling. <i>Entropy</i> , 2019 , 21,	2.8	44
89	GIS-Based Gully Erosion Susceptibility Mapping: A Comparison of Computational Ensemble Data Mining Models. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2039	2.6	44
88	River suspended sediment load prediction based on river discharge information: application of newly developed data mining models. <i>Hydrological Sciences Journal</i> , 2020 , 65, 624-637	3.5	44
87	Sinkhole susceptibility mapping: A comparison between Bayes-based machine learning algorithms. Land Degradation and Development, 2019 , 30, 730-745	4.4	44

86	Landslide Susceptibility Evaluation Using Hybrid Integration of Evidential Belief Function and Machine Learning Techniques. <i>Water (Switzerland)</i> , 2020 , 12, 113	3	43
85	Optimization of an adaptive neuro-fuzzy inference system for groundwater potential mapping. <i>Hydrogeology Journal</i> , 2019 , 27, 2511-2534	3.1	43
84	GIS-Based Machine Learning Algorithms for Gully Erosion Susceptibility Mapping in a Semi-Arid Region of Iran. <i>Remote Sensing</i> , 2020 , 12, 2478	5	41
83	Application of frequency ratio, weights of evidence and evidential belief function models in landslide susceptibility mapping. <i>Geocarto International</i> , 2016 , 1-21	2.7	40
82	Hybrid Computational Intelligence Methods for Landslide Susceptibility Mapping. <i>Symmetry</i> , 2020 , 12, 325	2.7	39
81	Spatial modelling of gully headcuts using UAV data and four best-first decision classifier ensembles (BFTree, Bag-BFTree, RS-BFTree, and RF-BFTree). <i>Geomorphology</i> , 2019 , 329, 184-193	4.3	38
80	Evaluation of different boosting ensemble machine learning models and novel deep learning and boosting framework for head-cut gully erosion susceptibility. <i>Journal of Environmental Management</i> , 2021 , 284, 112015	7.9	37
79	Torrential rainfall-triggered shallow landslide characteristics and susceptibility assessment using ensemble data-driven models in the Dongjiang Reservoir Watershed, China. <i>Natural Hazards</i> , 2019 , 97, 579-609	3	35
78	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
77	Big data in Geohazard; pattern mining and large scale analysis of landslides in Iran. <i>Earth Science Informatics</i> , 2019 , 12, 1-17	2.5	33
76	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
75	SEVUCAS: A Novel GIS-Based Machine Learning Software for Seismic Vulnerability Assessment. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3495	2.6	31
74	Spatial Prediction of Landslides Using Hybrid Integration of Artificial Intelligence Algorithms with Frequency Ratio and Index of Entropy in Nanzheng County, China. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 29	2.6	31
73	Mapping of Groundwater Spring Potential in Karst Aquifer System Using Novel Ensemble Bivariate and Multivariate Models. <i>Water (Switzerland)</i> , 2020 , 12, 985	3	30
72	Spatial Prediction of Landslide Susceptibility Based on GIS and Discriminant Functions. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 144	2.9	29
71	Landslide Detection and Susceptibility Modeling on Cameron Highlands (Malaysia): A Comparison between Random Forest, Logistic Regression and Logistic Model Tree Algorithms. <i>Forests</i> , 2020 , 11, 83	o ^{2.8}	29
7º	Multi-Criteria Decision Making (MCDM) Model for Seismic Vulnerability Assessment (SVA) of Urban Residential Buildings. <i>ISPRS International Journal of Geo-Information</i> , 2018 , 7, 444	2.9	29
69	Hybridized neural fuzzy ensembles for dust source modeling and prediction. <i>Atmospheric Environment</i> , 2020 , 224, 117320	5.3	28

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68	Development of an Artificial Intelligence Approach for Prediction of Consolidation Coefficient of Soft Soil: A Sensitivity Analysis. <i>Open Construction and Building Technology Journal</i> , 2019 , 13, 178-188	1.1	28	
67	Flash flood susceptibility mapping using a novel deep learning model based on deep belief network, back propagation and genetic algorithm. <i>Geoscience Frontiers</i> , 2021 , 12, 101100	6	27	
66	Bedload transport rate prediction: Application of novel hybrid data mining techniques. <i>Journal of Hydrology</i> , 2020 , 585, 124774	6	26	
65	A comparative study on groundwater spring potential analysis based on statistical index, index of entropy and certainty factors models. <i>Geocarto International</i> , 2018 , 33, 754-769	2.7	26	
64	Hybrid Computational Intelligence Models for Improvement Gully Erosion Assessment. <i>Remote Sensing</i> , 2020 , 12, 140	5	25	
63	Performance Evaluation of GIS-Based Artificial Intelligence Approaches for Landslide Susceptibility Modeling and Spatial Patterns Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 443	2.9	25	
62	Comparison of Support Vector Machine, Bayesian Logistic Regression, and Alternating Decision Tree Algorithms for Shallow Landslide Susceptibility Mapping along a Mountainous Road in the West of Iran. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5047	2.6	25	
61	River Water Salinity Prediction Using Hybrid Machine Learning Models. <i>Water (Switzerland)</i> , 2020 , 12, 2951	3	23	
60	Deep learning neural networks for spatially explicit prediction of flash flood probability. <i>Geoscience Frontiers</i> , 2021 , 12, 101076	6	22	
59	Landslide prediction capability by comparison of frequency ratio, fuzzy gamma and landslide index method. <i>Journal of Earth System Science</i> , 2019 , 128, 1	1.8	21	
58	Gully Head-Cut Distribution Modeling Using Machine Learning Methods A Case Study of N.W. Iran. Water (Switzerland), 2020, 12, 16	3	21	
57	Towards an Ensemble Machine Learning Model of Random Subspace Based Functional Tree Classifier for Snow Avalanche Susceptibility Mapping. <i>IEEE Access</i> , 2020 , 8, 145968-145983	3.5	21	
56	A Novel Intelligence Approach of a Sequential Minimal Optimization-Based Support Vector Machine for Landslide Susceptibility Mapping. <i>Sustainability</i> , 2019 , 11, 6323	3.6	21	
55	Convolutional neural network approach for spatial prediction of flood hazard at national scale of Iran. <i>Journal of Hydrology</i> , 2020 , 591, 125552	6	20	
54	Evaluation efficiency of hybrid deep learning algorithms with neural network decision tree and boosting methods for predicting groundwater potential. <i>Geocarto International</i> , 2021 , 1-21	2.7	18	
53	Monitoring and Assessment of Water Level Fluctuations of the Lake Urmia and Its Environmental Consequences Using Multitemporal Landsat 7 ETM Images. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	17	
52	Toward the development of deep-learning analyses for snow avalanche releases in Mountain regions. <i>Geocarto International</i> ,1-25	2.7	16	
51	Urban flood modeling using deep-learning approaches in Seoul, South Korea. <i>Journal of Hydrology</i> , 2021 , 601, 126684	6	16	

50	Modeling Spatial Flood using Novel Ensemble Artificial Intelligence Approaches in Northern Iran. <i>Remote Sensing</i> , 2020 , 12, 3423	5	15
49	Iterative classifier optimizer-based pace regression and random forest hybrid models for suspended sediment load prediction. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 11637-1	1649 ¹	15
48	Performance Evaluation of Sentinel-2 and Landsat 8 OLI Data for Land Cover/Use Classification Using a Comparison between Machine Learning Algorithms. <i>Remote Sensing</i> , 2021 , 13, 1349	5	14
47	A Hybrid Intelligence Approach to Enhance the Prediction Accuracy of Local Scour Depth at Complex Bridge Piers. <i>Sustainability</i> , 2020 , 12, 1063	3.6	13
46	Monthly suspended sediment load prediction using artificial intelligence: testing of a new random subspace method. <i>Hydrological Sciences Journal</i> , 2020 , 65, 2116-2127	3.5	13
45	Flood spatial prediction modeling using a hybrid of meta-optimization and support vector regression modeling. <i>Catena</i> , 2021 , 199, 105114	5.8	13
44	Uncertainties Analysis of Collapse Susceptibility Prediction Based on Remote Sensing and GIS: Influences of Different Data-Based Models and Connections between Collapses and Environmental Factors. <i>Remote Sensing</i> , 2020 , 12, 4134	5	12
43	Convolutional neural network (CNN) with metaheuristic optimization algorithms for landslide susceptibility mapping in Icheon, South Korea <i>Journal of Environmental Management</i> , 2021 , 305, 1143	367 ^{.9}	11
42	Improving groundwater potential mapping using metaheuristic approaches. <i>Hydrological Sciences Journal</i> , 2020 , 65, 2729-2749	3.5	11
41	Flood Detection and Susceptibility Mapping Using Sentinel-1 Time Series, Alternating Decision Trees, and Bag-ADTree Models. <i>Complexity</i> , 2020 , 2020, 1-21	1.6	11
40	A novel ensemble learning based on Bayesian Belief Network coupled with an extreme learning machine for flash flood susceptibility mapping. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 96, 103971	7.2	11
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