

Biswajeet Pradhan

List of Publications by Year in descending order

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710
papers

47,654
citations

1231

110
h-index

3173

186
g-index

737
all docs

737
docs citations

737
times ranked

17454
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study on the predictive ability of the decision tree, support vector machine and neuro-fuzzy models in landslide susceptibility mapping using GIS. <i>Computers and Geosciences</i> , 2013, 51, 350-365.	2.0	931
2	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.	2.7	865
3	Landslide hazard mapping at Selangor, Malaysia using frequency ratio and logistic regression models. <i>Landslides</i> , 2007, 4, 33-41.	2.7	802
4	Application of fuzzy logic and analytical hierarchy process (AHP) to landslide susceptibility mapping at Haraz watershed, Iran. <i>Natural Hazards</i> , 2012, 63, 965-996.	1.6	758
5	Landslide susceptibility assessment and factor effect analysis: backpropagation artificial neural networks and their comparison with frequency ratio and bivariate logistic regression modelling. <i>Environmental Modelling and Software</i> , 2010, 25, 747-759.	1.9	754
6	Flood susceptibility mapping using a novel ensemble weights-of-evidence and support vector machine models in GIS. <i>Journal of Hydrology</i> , 2014, 512, 332-343.	2.3	678
7	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.	2.2	637
8	Spatial prediction of flood susceptible areas using rule based decision tree (DT) and a novel ensemble bivariate and multivariate statistical models in GIS. <i>Journal of Hydrology</i> , 2013, 504, 69-79.	2.3	596
9	Landslide susceptibility mapping using certainty factor, index of entropy and logistic regression models in GIS and their comparison at Muglingâ€”Narayanghat road section in Nepal Himalaya. <i>Natural Hazards</i> , 2013, 65, 135-165.	1.6	559
10	Flood susceptibility assessment using GIS-based support vector machine model with different kernel types. <i>Catena</i> , 2015, 125, 91-101.	2.2	540
11	Delineation of landslide hazard areas on Penang Island, Malaysia, by using frequency ratio, logistic regression, and artificial neural network models. <i>Environmental Earth Sciences</i> , 2010, 60, 1037-1054.	1.3	522
12	An artificial neural network model for flood simulation using GIS: Johor River Basin, Malaysia. <i>Environmental Earth Sciences</i> , 2012, 67, 251-264.	1.3	472
13	Application of GIS based data driven evidential belief function model to predict groundwater potential zonation. <i>Journal of Hydrology</i> , 2014, 513, 283-300.	2.3	410
14	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.	2.3	409
15	Landslide susceptibility mapping using index of entropy and conditional probability models in GIS: Safarood Basin, Iran. <i>Catena</i> , 2012, 97, 71-84.	2.2	400
16	Landslide susceptibility mapping at Golestan Province, Iran: A comparison between frequency ratio, Dempsterâ€”Shafer, and weights-of-evidence models. <i>Journal of Asian Earth Sciences</i> , 2012, 61, 221-236.	1.0	378
17	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.	1.9	377
18	Regional landslide susceptibility analysis using back-propagation neural network model at Cameron Highland, Malaysia. <i>Landslides</i> , 2010, 7, 13-30.	2.7	373

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19	Application of a neuro-fuzzy model to landslide-susceptibility mapping for shallow landslides in a tropical hilly area. <i>Computers and Geosciences</i> , 2011, 37, 1264-1276.	2.0	372
20	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.	0.6	369
21	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.	2.2	367
22	Application of frequency ratio, statistical index, and weights-of-evidence models and their comparison in landslide susceptibility mapping in Central Nepal Himalaya. <i>Arabian Journal of Geosciences</i> , 2014, 7, 725-742.	0.6	366
23	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.	2.2	349
24	Assessment of the effects of training data selection on the landslide susceptibility mapping: a comparison between support vector machine (SVM), logistic regression (LR) and artificial neural networks (ANN). <i>Geomatics, Natural Hazards and Risk</i> , 2018, 9, 49-69.	2.0	349
25	COVID-19 Detection Through Transfer Learning Using Multimodal Imaging Data. <i>IEEE Access</i> , 2020, 8, 149808-149824.	2.6	338
26	A novel ensemble bivariate statistical evidential belief function with knowledge-based analytical hierarchy process and multivariate statistical logistic regression for landslide susceptibility mapping. <i>Catena</i> , 2014, 114, 21-36.	2.2	335
27	Suitability estimation for urban development using multi-hazard assessment map. <i>Science of the Total Environment</i> , 2017, 575, 119-134.	3.9	334
28	Flash flood risk estimation along the St. Katherine road, southern Sinai, Egypt using GIS based morphometry and satellite imagery. <i>Environmental Earth Sciences</i> , 2011, 62, 611-623.	1.3	332
29	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.	2.2	330
30	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. <i>Arabian Journal of Geosciences</i> , 2013, 6, 2873-2888.	0.6	315
31	Landslide susceptibility mapping of a catchment area using frequency ratio, fuzzy logic and multivariate logistic regression approaches. <i>Journal of the Indian Society of Remote Sensing</i> , 2010, 38, 301-320.	1.2	313
32	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.	2.0	310
33	Flood susceptibility analysis and its verification using a novel ensemble support vector machine and frequency ratio method. <i>Stochastic Environmental Research and Risk Assessment</i> , 2015, 29, 1149-1165.	1.9	307
34	An easy-to-use MATLAB program (MamLand) for the assessment of landslide susceptibility using a Mamdani fuzzy algorithm. <i>Computers and Geosciences</i> , 2012, 38, 23-34.	2.0	306
35	Application of an evidential belief function model in landslide susceptibility mapping. <i>Computers and Geosciences</i> , 2012, 44, 120-135.	2.0	297
36	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.	3.9	296

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37	Probabilistic landslide hazards and risk mapping on Penang Island, Malaysia. <i>Journal of Earth System Science</i> , 2006, 115, 661-672.	0.6	293
38	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.	1.9	287
39	Ensemble machine-learning-based geospatial approach for flood risk assessment using multi-sensor remote-sensing data and GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2017, 8, 1080-1102.	2.0	280
40	Modeling flood susceptibility using data-driven approaches of naïve Bayes tree, alternating decision tree, and random forest methods. <i>Science of the Total Environment</i> , 2020, 701, 134979.	3.9	280
41	Landslide susceptibility mapping using support vector machine and GIS at the Golestan Province, Iran. <i>Journal of Earth System Science</i> , 2013, 122, 349-369.	0.6	278
42	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.	2.3	275
43	Earthquake induced landslide susceptibility mapping using an integrated ensemble frequency ratio and logistic regression models in West Sumatera Province, Indonesia. <i>Catena</i> , 2014, 118, 124-135.	2.2	273
44	Urban flood risk mapping using the GARP and QUEST models: A comparative study of machine learning techniques. <i>Journal of Hydrology</i> , 2019, 569, 142-154.	2.3	272
45	Remote sensing and GIS-based landslide hazard analysis and cross-validation using multivariate logistic regression model on three test areas in Malaysia. <i>Advances in Space Research</i> , 2010, 45, 1244-1256.	1.2	267
46	Application of weights-of-evidence and certainty factor models and their comparison in landslide susceptibility mapping at Haraz watershed, Iran. <i>Arabian Journal of Geosciences</i> , 2013, 6, 2351-2365.	0.6	261
47	Optimization of landslide conditioning factors using very high-resolution airborne laser scanning (LiDAR) data at catchment scale. <i>Remote Sensing of Environment</i> , 2014, 152, 150-165.	4.6	256
48	Application of probabilistic-based frequency ratio model in groundwater potential mapping using remote sensing data and GIS. <i>Arabian Journal of Geosciences</i> , 2014, 7, 711-724.	0.6	249
49	A novel machine learning-based approach for the risk assessment of nitrate groundwater contamination. <i>Science of the Total Environment</i> , 2018, 644, 954-962.	3.9	238
50	Modification of landslide susceptibility mapping using optimized PSO-ANN technique. <i>Engineering With Computers</i> , 2019, 35, 967-984.	3.5	236
51	Landslide Susceptibility Mapping by Neuro-Fuzzy Approach in a Landslide-Prone Area (Cameron) Tj ETQq1 1 0.784314 rgBT /Overlock 234	2.7	234
52	Manifestation of an adaptive neuro-fuzzy model on landslide susceptibility mapping: Klang valley, Malaysia. <i>Expert Systems With Applications</i> , 2011, 38, 8208-8219.	4.4	232
53	A knowledge-driven GIS modeling technique for groundwater potential mapping at the Upper Langat Basin, Malaysia. <i>Arabian Journal of Geosciences</i> , 2013, 6, 1621-1637.	0.6	229
54	A review of neural networks in plant disease detection using hyperspectral data. <i>Information Processing in Agriculture</i> , 2018, 5, 354-371.	2.9	228

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55	A new hybrid model using step-wise weight assessment ratio analysis (SWARA) technique and adaptive neuro-fuzzy inference system (ANFIS) for regional landslide hazard assessment in Iran. <i>Catena</i> , 2015, 135, 122-148.	2.2	222
56	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.	1.3	215
57	Flood susceptibility mapping using integrated bivariate and multivariate statistical models. <i>Environmental Earth Sciences</i> , 2014, 72, 4001-4015.	1.3	212
58	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.	2.7	207
59	Application of convolutional neural networks featuring Bayesian optimization for landslide susceptibility assessment. <i>Catena</i> , 2020, 186, 104249.	2.2	203
60	Use of GIS-based fuzzy logic relations and its cross application to produce landslide susceptibility maps in three test areas in Malaysia. <i>Environmental Earth Sciences</i> , 2011, 63, 329-349.	1.3	201
61	A GIS-based back-propagation neural network model and its cross-application and validation for landslide susceptibility analyses. <i>Computers, Environment and Urban Systems</i> , 2010, 34, 216-235.	3.3	197
62	Landslide susceptibility mapping at Al-Hasher area, Jizan (Saudi Arabia) using GIS-based frequency ratio and index of entropy models. <i>Geosciences Journal</i> , 2015, 19, 113-134.	0.6	196
63	Land subsidence susceptibility mapping at Kinta Valley (Malaysia) using the evidential belief function model in GIS. <i>Natural Hazards</i> , 2014, 73, 1019-1042.	1.6	190
64	Estimating groundwater vulnerability to pollution using a modified DRASTIC model in the Kerman agricultural area, Iran. <i>Environmental Earth Sciences</i> , 2014, 71, 3119-3131.	1.3	184
65	Weights-of-evidence model applied to landslide susceptibility mapping in a tropical hilly area. <i>Geomatics, Natural Hazards and Risk</i> , 2010, 1, 199-223.	2.0	182
66	Soil erosion assessment and its correlation with landslide events using remote sensing data and GIS: a case study at Penang Island, Malaysia. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 715-727.	1.3	180
67	Groundwater spring potential mapping using bivariate statistical model and GIS in the Taleghan Watershed, Iran. <i>Arabian Journal of Geosciences</i> , 2015, 8, 913-929.	0.6	179
68	LAND USE/LAND COVER CHANGE ANALYSIS AND ITS IMPACT ON SOIL PROPERTIES IN THE NORTHERN PART OF GADARIF REGION, SUDAN. <i>Land Degradation and Development</i> , 2013, 24, 90-102.	1.8	177
69	Manifestation of remote sensing data and GIS on landslide hazard analysis using spatial-based statistical models. <i>Arabian Journal of Geosciences</i> , 2010, 3, 319-326.	0.6	176
70	A comparative assessment of prediction capabilities of Dempster's Shafer and Weights-of-evidence models in landslide susceptibility mapping using GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2013, 4, 93-118.	2.0	174
71	Groundwater potential mapping using C5.0, random forest, and multivariate adaptive regression spline models in GIS. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 149.	1.3	173
72	Flash flood susceptibility assessment in Jeddah city (Kingdom of Saudi Arabia) using bivariate and multivariate statistical models. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	171

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73	Manifestation of an advanced fuzzy logic model coupled with Geo-information techniques to landslide susceptibility mapping and their comparison with logistic regression modelling. <i>Environmental and Ecological Statistics</i> , 2011, 18, 471-493.	1.9	170
74	GIS-based landslide susceptibility mapping with probabilistic likelihood ratio and spatial multi-criteria evaluation models (North of Tehran, Iran). <i>Arabian Journal of Geosciences</i> , 2014, 7, 1857-1878.	0.6	170
75	Multi-hazard assessment modeling via multi-criteria analysis and GIS: a case study. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	169
76	Deep Learning Approaches Applied to Remote Sensing Datasets for Road Extraction: A State-Of-The-Art Review. <i>Remote Sensing</i> , 2020, 12, 1444.	1.8	169
77	Monitoring and predicting land use change in Tripoli Metropolitan City using an integrated Markov chain and cellular automata models in GIS. <i>Arabian Journal of Geosciences</i> , 2014, 7, 4291-4301.	0.6	168
78	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.	1.1	166
79	Analysis and evaluation of landslide susceptibility: a review on articles published during 2005-2016 (periods of 2005-2012 and 2013-2016). <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	166
80	Groundwater vulnerability assessment using an improved DRASTIC method in GIS. <i>Resources, Conservation and Recycling</i> , 2014, 86, 74-86.	5.3	165
81	A comparative assessment of GIS-based data mining models and a novel ensemble model in groundwater well potential mapping. <i>Journal of Hydrology</i> , 2017, 548, 471-483.	2.3	163
82	Identification of potentially dangerous glacial lakes in the northern Tien Shan. <i>Natural Hazards</i> , 2011, 59, 1691-1714.	1.6	159
83	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. <i>Sensors</i> , 2018, 18, 3777.	2.1	146
84	A novel ensemble decision tree-based CHI-squared Automatic Interaction Detection (CHAID) and multivariate logistic regression models in landslide susceptibility mapping. <i>Landslides</i> , 2014, 11, 1063-1078.	2.7	144
85	Modelling urban growth evolution and land-use changes using GIS based cellular automata and SLEUTH models: the case of Sana'a metropolitan city, Yemen. <i>Environmental Earth Sciences</i> , 2013, 70, 425-437.	1.3	143
86	Landslide susceptibility mapping using ensemble bivariate and multivariate statistical models in Fayfa area, Saudi Arabia. <i>Environmental Earth Sciences</i> , 2015, 73, 3745-3761.	1.3	141
87	Landslide susceptibility mapping using an ensemble statistical index (Wi) and adaptive neuro-fuzzy inference system (ANFIS) model at Alborz Mountains (Iran). <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	139
88	Landslide susceptibility mapping at Zonouz Plain, Iran using genetic programming and comparison with frequency ratio, logistic regression, and artificial neural network models. <i>Natural Hazards</i> , 2014, 71, 523-547.	1.6	138
89	Landslide Susceptibility Mapping Using Different GIS-Based Bivariate Models. <i>Water (Switzerland)</i> , 2019, 11, 1402.	1.2	137
90	Rainfall Induced Landslide Studies in Indian Himalayan Region: A Critical Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2466.	1.3	137

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91	Integrated evaluation of urban development suitability based on remote sensing and GIS techniques: contribution from the analytic hierarchy process. <i>Arabian Journal of Geosciences</i> , 2011, 4, 463-473.	0.6	134
92	Use of geospatial data and fuzzy algebraic operators to landslide-hazard mapping. <i>Applied Geomatics</i> , 2009, 1, 3-15.	1.2	132
93	Urban Sprawl Analysis of Tripoli Metropolitan City (Libya) Using Remote Sensing Data and Multivariate Logistic Regression Model. <i>Journal of the Indian Society of Remote Sensing</i> , 2014, 42, 149-163.	1.2	130
94	Groundwater spring potential modelling: Comprising the capability and robustness of three different modeling approaches. <i>Journal of Hydrology</i> , 2018, 565, 248-261.	2.3	129
95	Land Cover Classification from fused DSM and UAV Images Using Convolutional Neural Networks. <i>Remote Sensing</i> , 2019, 11, 1461.	1.8	129
96	Estimation of stress and its use in evaluation of landslide prone regions using remote sensing data. <i>Advances in Space Research</i> , 2006, 37, 698-709.	1.2	127
97	A comparative assessment of prediction capabilities of modified analytical hierarchy process (M-AHP) and Mamdani fuzzy logic models using Netcad-GIS for forest fire susceptibility mapping. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 861-885.	2.0	127
98	Application of remote sensing data and GIS for landslide risk assessment as an environmental threat to Izmir city (west Turkey). <i>Environmental Monitoring and Assessment</i> , 2012, 184, 5453-5470.	1.3	124
99	Severity Prediction of Traffic Accidents with Recurrent Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 476.	1.3	124
100	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.	1.8	124
101	Flood Susceptibility Mapping Using GIS-Based Analytic Network Process: A Case Study of Perlis, Malaysia. <i>Water (Switzerland)</i> , 2019, 11, 615.	1.2	124
102	GIS-based landslide spatial modeling in Ganzhou City, China. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	123
103	Landslide hazard and risk analyses at a landslide prone catchment area using statistical based geospatial model. <i>International Journal of Remote Sensing</i> , 2011, 32, 4075-4087.	1.3	122
104	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.	1.6	122
105	Groundwater potential mapping using a novel data-mining ensemble model. <i>Hydrogeology Journal</i> , 2019, 27, 211-224.	0.9	122
106	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.	1.6	122
107	Land Subsidence Susceptibility Mapping in South Korea Using Machine Learning Algorithms. <i>Sensors</i> , 2018, 18, 2464.	2.1	120
108	Gully erosion zonation mapping using integrated geographically weighted regression with certainty factor and random forest models in GIS. <i>Journal of Environmental Management</i> , 2019, 232, 928-942.	3.8	118

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109	Geomorphological hazard analysis along the Egyptian Red Sea coast between Safaga and Quseir. <i>Natural Hazards and Earth System Sciences</i> , 2009, 9, 751-766.	1.5	117
110	GIS-based modeling for the spatial measurement and evaluation of mixed land use development for a compact city. <i>GIScience and Remote Sensing</i> , 2015, 52, 18-39.	2.4	117
111	A comparative assessment between object and pixel-based classification approaches for land use/land cover mapping using SPOT 5 imagery. <i>Geocarto International</i> , 2014, 29, 351-369.	1.7	116
112	Novel Hybrid Integration Approach of Bagging-Based Fisher's Linear Discriminant Function for Groundwater Potential Analysis. <i>Natural Resources Research</i> , 2019, 28, 1239-1258.	2.2	113
113	Harris Hawks Optimization: A Novel Swarm Intelligence Technique for Spatial Assessment of Landslide Susceptibility. <i>Sensors</i> , 2019, 19, 3590.	2.1	111
114	GIS-based landslide susceptibility mapping using numerical risk factor bivariate model and its ensemble with linear multivariate regression and boosted regression tree algorithms. <i>Journal of Mountain Science</i> , 2019, 16, 595-618.	0.8	110
115	Improvement of Best First Decision Trees Using Bagging and Dagging Ensembles for Flood Probability Mapping. <i>Water Resources Management</i> , 2020, 34, 3037-3053.	1.9	107
116	Analysis on causes of flash flood in Jeddah city (Kingdom of Saudi Arabia) of 2009 and 2011 using multi-sensor remote sensing data and GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2016, 7, 1018-1042.	2.0	106
117	Rainfall-induced landslide susceptibility assessment at the Chongren area (China) using frequency ratio, certainty factor, and index of entropy. <i>Geocarto International</i> , 0, , 1-16.	1.7	105
118	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.	1.3	105
119	Landslide Detection Using Residual Networks and the Fusion of Spectral and Topographic Information. <i>IEEE Access</i> , 2019, 7, 114363-114373.	2.6	105
120	Utilization of Optical Remote Sensing Data and GIS Tools for Regional Landslide Hazard Analysis Using an Artificial Neural Network Model. <i>Earth Science Frontiers</i> , 2007, 14, 143-151.	0.5	104
121	Spatial prediction of landslide hazard at the Luxi area (China) using support vector machines. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	103
122	Spatial Modelling of Gully Erosion Using GIS and R Programing: A Comparison among Three Data Mining Algorithms. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1369.	1.3	103
123	Fuzzy-metaheuristic ensembles for spatial assessment of forest fire susceptibility. <i>Journal of Environmental Management</i> , 2020, 260, 109867.	3.8	103
124	Assessment of Landslide Susceptibility Using Statistical- and Artificial Intelligence-based FR&RF Integrated Model and Multiresolution DEMs. <i>Remote Sensing</i> , 2019, 11, 999.	1.8	102
125	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, 3704.	2.1	101
126	Remote Sensing and GIS-based Landslide Susceptibility Analysis and its Cross-validation in Three Test Areas Using a Frequency Ratio Model. <i>Photogrammetrie, Fernerkundung, Geoinformation</i> , 2010, 2010, 17-32.	1.2	100

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127	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.	2.0	100
128	Comparison and Validation of Landslide Susceptibility Maps Using an Artificial Neural Network Model for Three Test Areas in Malaysia. <i>Environmental and Engineering Geoscience</i> , 2010, 16, 107-126.	0.3	98
129	Spatial modelling of gully erosion using evidential belief function, logistic regression, and a new ensemble of evidential belief function–logistic regression algorithm. <i>Land Degradation and Development</i> , 2018, 29, 4035-4049.	1.8	98
130	Groundwater potential zonation for basaltic watersheds using satellite remote sensing data and GIS techniques. <i>Open Geosciences</i> , 2009, 1, .	0.6	97
131	Comparison of machine learning models for gully erosion susceptibility mapping. <i>Geoscience Frontiers</i> , 2020, 11, 1609-1620.	4.3	96
132	Application of an advanced fuzzy logic model for landslide susceptibility analysis. <i>International Journal of Computational Intelligence Systems</i> , 2010, 3, 370-381.	1.6	93
133	An easy to use ArcMap based texture analysis program for extraction of flooded areas from TerraSAR-X satellite image. <i>Computers and Geosciences</i> , 2014, 63, 34-43.	2.0	93
134	A novel integrated model for assessing landslide susceptibility mapping using CHAID and AHP pair-wise comparison. <i>International Journal of Remote Sensing</i> , 2016, 37, 1190-1209.	1.3	93
135	Spatial landslide susceptibility assessment using machine learning techniques assisted by additional data created with generative adversarial networks. <i>Geoscience Frontiers</i> , 2021, 12, 625-637.	4.3	93
136	Application of Multi-Sensor Satellite Data for Exploration of Zn–Pb Sulfide Mineralization in the Franklinian Basin, North Greenland. <i>Remote Sensing</i> , 2018, 10, 1186.	1.8	92
137	Mapping hydrothermal alteration zones and lineaments associated with orogenic gold mineralization using ASTER data: A case study from the Sanandaj-Sirjan Zone, Iran. <i>Advances in Space Research</i> , 2019, 63, 3315-3332.	1.2	92
138	Landslide susceptibility mapping along Bhalubang – Shiwapur area of mid-Western Nepal using frequency ratio and conditional probability models. <i>Journal of Mountain Science</i> , 2014, 11, 1266-1285.	0.8	91
139	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.	3.9	91
140	Assessing drought vulnerability using geospatial techniques in northwestern part of Bangladesh. <i>Science of the Total Environment</i> , 2020, 705, 135957.	3.9	91
141	A Hybrid Analytic Network Process and Artificial Neural Network (ANP-ANN) Model for Urban Earthquake Vulnerability Assessment. <i>Remote Sensing</i> , 2018, 10, 975.	1.8	90
142	Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm. <i>Remote Sensing</i> , 2019, 11, 931.	1.8	90
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