

Ataollah Shirzadi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2235836/publications.pdf>

Version: 2024-02-01

78
papers

8,174
citations

29994

54
h-index

74018

75
g-index

80
all docs

80
docs citations

80
times ranked

3312
citing authors

#	ARTICLE	IF	CITATIONS
1	Swarm intelligence optimization of the group method of data handling using the cuckoo search and whale optimization algorithms to model and predict landslides. <i>Applied Soft Computing Journal</i> , 2022, 116, 108254.	4.1	39
2	Landslide susceptibility modeling based on remote sensing data and data mining techniques. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	1.3	12
3	A comparison study on the quantitative statistical methods for spatial prediction of shallow landslides (case study: Yozidar-Degaga Route in Kurdistan Province, Iran). <i>Environmental Earth Sciences</i> , 2022, 81, 1.	1.3	12
4	Predicting sustainable arsenic mitigation using machine learning techniques. <i>Ecotoxicology and Environmental Safety</i> , 2022, 232, 113271.	2.9	12
5	A Robust Deep-Learning Model for Landslide Susceptibility Mapping: A Case Study of Kurdistan Province, Iran. <i>Sensors</i> , 2022, 22, 1573.	2.1	31
6	Towards robust smart data-driven soil erodibility index prediction under different scenarios. <i>Geocarto International</i> , 2022, 37, 13176-13209.	1.7	1
7	Efficiency of artificial neural networks in determining scour depth at composite bridge piers. <i>International Journal of River Basin Management</i> , 2021, 19, 327-333.	1.5	5
8	Can deep learning algorithms outperform benchmark machine learning algorithms in flood susceptibility modeling?. <i>Journal of Hydrology</i> , 2021, 592, 125615.	2.3	65
9	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.	4.3	95
10	Deep learning neural networks for spatially explicit prediction of flash flood probability. <i>Geoscience Frontiers</i> , 2021, 12, 101076.	4.3	60
11	Application of Artificial Intelligence in Predicting Groundwater Contaminants. , 2021, , 71-105.		3
12	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.	1.8	61
13	A novel hybrid approach of landslide susceptibility modelling using rotation forest ensemble and different base classifiers. <i>Geocarto International</i> , 2020, 35, 1267-1292.	1.7	114
14	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, 830.	0.9	57
15	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.	2.6	50
16	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, 4933.	1.2	84
17	Daily Water Level Prediction of Zrebar Lake (Iran): A Comparison between MSP, Random Forest, Random Tree and Reduced Error Pruning Trees Algorithms. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 479.	1.4	42
18	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.	4.3	29

#	ARTICLE	IF	CITATIONS
19	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.	1.3	50
20	GIS-Based Machine Learning Algorithms for Gully Erosion Susceptibility Mapping in a Semi-Arid Region of Iran. <i>Remote Sensing</i> , 2020, 12, 2478.	1.8	92
21	Performance Evaluation and Comparison of Bivariate Statistical-Based Artificial Intelligence Algorithms for Spatial Prediction of Landslides. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 696.	1.4	14
22	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, 4210.	1.2	37
23	GIS-Based Gully Erosion Susceptibility Mapping: A Comparison of Computational Ensemble Data Mining Models. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2039.	1.3	78
24	Hybrid Computational Intelligence Methods for Landslide Susceptibility Mapping. <i>Symmetry</i> , 2020, 12, 325.	1.1	56
25	Hybridized neural fuzzy ensembles for dust source modeling and prediction. <i>Atmospheric Environment</i> , 2020, 224, 117320.	1.9	39
26	Different sampling strategies for predicting landslide susceptibilities are deemed less consequential with deep learning. <i>Science of the Total Environment</i> , 2020, 720, 137320.	3.9	157
27	A Hybrid Intelligence Approach to Enhance the Prediction Accuracy of Local Scour Depth at Complex Bridge Piers. <i>Sustainability</i> , 2020, 12, 1063.	1.6	22
28	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.	1.8	210
29	Mapping of Groundwater Spring Potential in Karst Aquifer System Using Novel Ensemble Bivariate and Multivariate Models. <i>Water (Switzerland)</i> , 2020, 12, 985.	1.2	50
30	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.	0.9	87
31	Shallow Landslide Susceptibility Mapping: A Comparison between Logistic Model Tree, Logistic Regression, Naïve Bayes Tree, Artificial Neural Network, and Support Vector Machine Algorithms. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2749.	1.2	159
32	Development of 48-hour Precipitation Forecasting Model using Nonlinear Autoregressive Neural Network. <i>Lecture Notes in Civil Engineering</i> , 2020, , 1191-1196.	0.3	21
33	A novel hybrid approach of Bayesian Logistic Regression and its ensembles for landslide susceptibility assessment. <i>Geocarto International</i> , 2019, 34, 1427-1457.	1.7	105
34	Flood susceptibility assessment using integration of adaptive network-based fuzzy inference system (ANFIS) and biogeography-based optimization (BBO) and BAT algorithms (BA). <i>Geocarto International</i> , 2019, 34, 1252-1272.	1.7	173
35	Development of a Novel Hybrid Intelligence Approach for Landslide Spatial Prediction. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2824.	1.3	58
36	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

#	ARTICLE	IF	CITATIONS
37	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.	3.8	169
38	A Hybrid Computational Intelligence Approach to Groundwater Spring Potential Mapping. <i>Water (Switzerland)</i> , 2019, 11, 2013.	1.2	64
39	Flood susceptibility mapping at Ningdu catchment, China using bivariate and data mining techniques. , 2019, , 419-434.		22
40	New Ensemble Models for Shallow Landslide Susceptibility Modeling in a Semi-Arid Watershed. <i>Forests</i> , 2019, 10, 743.	0.9	89
41	SEUCAS: A Novel GIS-Based Machine Learning Software for Seismic Vulnerability Assessment. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3495.	1.3	42
42	Landslide Susceptibility Assessment by Novel Hybrid Machine Learning Algorithms. <i>Sustainability</i> , 2019, 11, 4386.	1.6	130
43	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.	1.3	60
44	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.	1.3	129
45	Landslide spatial modelling using novel bivariate statistical based Naïve Bayes, RBF Classifier, and RBF Network machine learning algorithms. <i>Science of the Total Environment</i> , 2019, 663, 1-15.	3.9	182
46	SWPT: An automated GIS-based tool for prioritization of sub-watersheds based on morphometric and topo-hydrological factors. <i>Geoscience Frontiers</i> , 2019, 10, 2167-2175.	4.3	60
47	A Novel Ensemble Artificial Intelligence Approach for Gully Erosion Mapping in a Semi-Arid Watershed (Iran). <i>Sensors</i> , 2019, 19, 2444.	2.1	86
48	Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm. <i>Remote Sensing</i> , 2019, 11, 931.	1.8	90
49	Uncertainties of prediction accuracy in shallow landslide modeling: Sample size and raster resolution. <i>Catena</i> , 2019, 178, 172-188.	2.2	107
50	Spatial prediction of landslide susceptibility by combining evidential belief function, logistic regression and logistic model tree. <i>Geocarto International</i> , 2019, 34, 1177-1201.	1.7	99
51	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
52	Hybrid Machine Learning Approaches for Landslide Susceptibility Modeling. <i>Forests</i> , 2019, 10, 157.	0.9	136
53	Mapping Groundwater Potential Using a Novel Hybrid Intelligence Approach. <i>Water Resources Management</i> , 2019, 33, 281-302.	1.9	145
54	Landslide susceptibility modeling using Reduced Error Pruning Trees and different ensemble techniques: Hybrid machine learning approaches. <i>Catena</i> , 2019, 175, 203-218.	2.2	229

#	ARTICLE	IF	CITATIONS
55	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.	1.6	135
56	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.	1.6	94
57	Sinkhole susceptibility mapping: A comparison between Bayesian-based machine learning algorithms. <i>Land Degradation and Development</i> , 2019, 30, 730-745.	1.8	63
58	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.	0.3	32
59	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.	3.8	231
60	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.	3.9	494
61	A novel ensemble approach of bivariate statistical-based logistic model tree classifier for landslide susceptibility assessment. <i>Geocarto International</i> , 2018, 33, 1398-1420.	1.7	93
62	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, 1124-1141.	3.9	298
63	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.	1.8	131
64	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. <i>Sensors</i> , 2018, 18, 3777.	2.1	146
65	Landslide Susceptibility Modeling Based on GIS and Novel Bagging-Based Kernel Logistic Regression. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2540.	1.3	140
66	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.	1.8	121
67	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.	1.8	84
68	Novel Hybrid Evolutionary Algorithms for Spatial Prediction of Floods. <i>Scientific Reports</i> , 2018, 8, 15364.	1.6	124
69	New Hybrids of ANFIS with Several Optimization Algorithms for Flood Susceptibility Modeling. <i>Water (Switzerland)</i> , 2018, 10, 1210.	1.2	174
70	Land Subsidence Susceptibility Mapping in South Korea Using Machine Learning Algorithms. <i>Sensors</i> , 2018, 18, 2464.	2.1	120
71	Shallow landslide susceptibility assessment using a novel hybrid intelligence approach. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	211
72	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.	1.3	66

#	ARTICLE	IF	CITATIONS
73	A comparative study between popular statistical and machine learning methods for simulating volume of landslides. <i>Catena</i> , 2017, 157, 213-226.	2.2	104
74	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. <i>Geomatics, Natural Hazards and Risk</i> , 2017, 8, 1955-1977.	2.0	162
75	A novel hybrid artificial intelligence approach for flood susceptibility assessment. <i>Environmental Modelling and Software</i> , 2017, 95, 229-245.	1.9	416
76	A GIS-based logistic regression model in rock-fall susceptibility mapping along a mountainous road: Salavat Abad case study, Kurdistan, Iran. <i>Natural Hazards</i> , 2012, 64, 1639-1656.	1.6	98
77	GIS-based spatial prediction of landslide susceptibility using logistic regression model. <i>Geomatics, Natural Hazards and Risk</i> , 2011, 2, 33-50.	2.0	72
78	Application of a Novel Hybrid Machine Learning Algorithm in Shallow Landslide Susceptibility Mapping in a Mountainous Area. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	6