

Biswajeet Pradhan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2328854/biswajeet-pradhan-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

699
papers

32,178
citations

95
h-index

157
g-index

735
ext. papers

39,538
ext. citations

3.7
avg, IF

8.36
L-index

#	Paper	IF	Citations
699	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	4.5	710
698	Landslide hazard mapping at Selangor, Malaysia using frequency ratio and logistic regression models. <i>Landslides</i> , 2007 , 4, 33-41	6.6	607
697	Spatial prediction models for shallow landslide hazards: a comparative assessment of the efficacy of support vector machines, artificial neural networks, kernel logistic regression, and logistic model tree. <i>Landslides</i> , 2016 , 13, 361-378	6.6	602
696	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	5.2	596
695	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	3	559
694	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	6	470
693	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
692	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	2.9	423
691	Landslide susceptibility mapping using certainty factor, index of entropy and logistic regression models in GIS and their comparison at Mugling Narayanghat road section in Nepal Himalaya. <i>Natural Hazards</i> , 2013 , 65, 135-165	3	422
690	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	6	410
689	Flood susceptibility assessment using GIS-based support vector machine model with different kernel types. <i>Catena</i> , 2015 , 125, 91-101	5.8	365
688	An artificial neural network model for flood simulation using GIS: Johor River Basin, Malaysia. <i>Environmental Earth Sciences</i> , 2012 , 67, 251-264	2.9	330
687	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	4.5	317
686	Regional landslide susceptibility analysis using back-propagation neural network model at Cameron Highland, Malaysia. <i>Landslides</i> , 2010 , 7, 13-30	6.6	305
685	Application of GIS based data driven evidential belief function model to predict groundwater potential zonation. <i>Journal of Hydrology</i> , 2014 , 513, 283-300	6	301
684	Landslide susceptibility mapping at Golestan Province, Iran: A comparison between frequency ratio, Dempster-Shafer, and weights-of-evidence models. <i>Journal of Asian Earth Sciences</i> , 2012 , 61, 221-236	2.8	301
683	Landslide susceptibility mapping using index of entropy and conditional probability models in GIS: Safarood Basin, Iran. <i>Catena</i> , 2012 , 97, 71-84	5.8	300

682	A comparative study of different machine learning methods for landslide susceptibility assessment: A case study of Uttarakhand area (India). <i>Environmental Modelling and Software</i> , 2016 , 84, 240-250	5.2	289
681	Spatial prediction of landslide hazards in Hoa Binh province (Vietnam): A comparative assessment of the efficacy of evidential belief functions and fuzzy logic models. <i>Catena</i> , 2012 , 96, 28-40	5.8	289
680	Landslide Susceptibility Assessment in Vietnam Using Support Vector Machines, Decision Tree, and Naïve Bayes Models. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-26	1.1	280
679	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	1.8	270
678	Landslide susceptibility mapping at Hoa Binh province (Vietnam) using an adaptive neuro-fuzzy inference system and GIS. <i>Computers and Geosciences</i> , 2012 , 45, 199-211	4.5	267
677	Spatial prediction of landslide hazard at the Yihuang area (China) using two-class kernel logistic regression, alternating decision tree and support vector machines. <i>Catena</i> , 2015 , 133, 266-281	5.8	265
676	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	5.8	264
675	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	2.9	253
674	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	4.5	248
673	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
672	Application of an evidential belief function model in landslide susceptibility mapping. <i>Computers and Geosciences</i> , 2012 , 44, 120-135	4.5	244
671	Landslide susceptibility mapping of a catchment area using frequency ratio, fuzzy logic and multivariate logistic regression approaches 2010 , 38, 301-320		244
670	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	1.8	243
669	Probabilistic landslide hazards and risk mapping on Penang Island, Malaysia. <i>Journal of Earth System Science</i> , 2006 , 115, 661-672	1.8	240
668	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
667	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	1.8	224
666	Suitability estimation for urban development using multi-hazard assessment map. <i>Science of the Total Environment</i> , 2017 , 575, 119-134	10.2	224
665	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 ⁴	2.4	224

664	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	3.6	221
663	Manifestation of an adaptive neuro-fuzzy model on landslide susceptibility mapping: Klang valley, Malaysia. <i>Expert Systems With Applications</i> , 2011 , 38, 8208-8219	7.8	214
662	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	5.8	213
661	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	1.8	211
660	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	3.5	200
659	Landslide Susceptibility Mapping by Neuro-Fuzzy Approach in a Landslide-Prone Area (Cameron Highlands, Malaysia). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010 , 48, 4164-4177	8.1	192
658	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
657	Hybrid artificial intelligence approach based on neural fuzzy inference model and metaheuristic optimization for flood susceptibility modeling in a high-frequency tropical cyclone area using GIS. <i>Journal of Hydrology</i> , 2016 , 540, 317-330	6	189
656	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	13.2	186
655	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	5.8	183
654	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	1.8	182
653	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	6	174
652	Spatial prediction of rainfall-induced landslides for the Lao Cai area (Vietnam) using a hybrid intelligent approach of least squares support vector machines inference model and artificial bee colony optimization. <i>Landslides</i> , 2017 , 14, 447-458	6.6	172
651	A hybrid artificial intelligence approach using GIS-based neural-fuzzy inference system and particle swarm optimization for forest fire susceptibility modeling at a tropical area. <i>Agricultural and Forest Meteorology</i> , 2017 , 233, 32-44	5.8	172
650	GIS-based modeling of rainfall-induced landslides using data mining-based functional trees classifier with AdaBoost, Bagging, and MultiBoost ensemble frameworks. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	171
649	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	3.6	169
648	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	5.9	167
647	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	2.9	166

646	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	1.8	164
645	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	2.9	153
644	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	10.2	152
643	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	1.4	151
642	Land subsidence susceptibility mapping at Kinta Valley (Malaysia) using the evidential belief function model in GIS. <i>Natural Hazards</i> , 2014 , 73, 1019-1042	3	151
641	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	2.2	150
640	Flood susceptibility mapping using integrated bivariate and multivariate statistical models. <i>Environmental Earth Sciences</i> , 2014 , 72, 4001-4015	2.9	148
639	COVID-19 Detection Through Transfer Learning Using Multimodal Imaging Data.. <i>IEEE Access</i> , 2020 , 8, 149808-149824	3.5	148
638	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	3.6	147
637	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	10.2	146
636	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	4.4	143
635	A comparative assessment of prediction capabilities of DempsterShafer and Weights-of-evidence models in landslide susceptibility mapping using GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2013 , 4, 93-118	3.6	143
634	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	1.8	139
633	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	1.8	138
632	Landslide susceptibility assessment in the Hoa Binh province of Vietnam: A comparison of the LevenbergMarquardt and Bayesian regularized neural networks. <i>Geomorphology</i> , 2012 , 171-172, 12-29	4.3	136
631	Modification of landslide susceptibility mapping using optimized PSO-ANN technique. <i>Engineering With Computers</i> , 2019 , 35, 967-984	4.5	136
630	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	1.8	131
629	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	2.1	131

628	Identification of potentially dangerous glacial lakes in the northern Tien Shan. <i>Natural Hazards</i> , 2011 , 59, 1691-1714	3	126
627	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	6	122
626	Groundwater vulnerability assessment using an improved DRASTIC method in GIS. <i>Resources, Conservation and Recycling</i> , 2014 , 86, 74-86	11.9	122
625	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	1.8	117
624	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	3.1	114
623	Landslide susceptibility mapping using ensemble bivariate and multivariate statistical models in Fayfa area, Saudi Arabia. <i>Environmental Earth Sciences</i> , 2015 , 73, 3745-3761	2.9	113
622	A review of neural networks in plant disease detection using hyperspectral data. <i>Information Processing in Agriculture</i> , 2018 , 5, 354-371	4.2	113
621	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	2.4	109
620	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	2.9	108
619	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	2.9	108
618	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	2.9	108
617	Use of geospatial data and fuzzy algebraic operators to landslide-hazard mapping. <i>Applied Geomatics</i> , 2009 , 1, 3-15	2.2	108
616	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	3	106
615	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	3.1	106
614	Application of convolutional neural networks featuring Bayesian optimization for landslide susceptibility assessment. <i>Catena</i> , 2020 , 186, 104249	5.8	105
613	Regional prediction of landslide hazard using probability analysis of intense rainfall in the Hoa Binh province, Vietnam. <i>Natural Hazards</i> , 2013 , 66, 707-730	3	104
612	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, 5453-70	3.1	103
611	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	1.8	102

610	Multi-hazard assessment modeling via multi-criteria analysis and GIS: a case study. <i>Environmental Earth Sciences</i> , 2019 , 78, 1	2.9	102
609	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	6.6	101
608	Novel GIS Based Machine Learning Algorithms for Shallow Landslide Susceptibility Mapping. <i>Sensors</i> , 2018 , 18,	3.8	100
607	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	3.9	98
606	Urban Sprawl Analysis of Tripoli Metropolitan City (Libya) Using Remote Sensing Data and Multivariate Logistic Regression Model 2014 , 42, 149-163		97
605	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
604	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	1.8	93
603	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	2.7	91
602	Application of an advanced fuzzy logic model for landslide susceptibility analysis. <i>International Journal of Computational Intelligence Systems</i> , 2010 , 3, 370-381	3.4	90
601	Land Subsidence Susceptibility Mapping in South Korea Using Machine Learning Algorithms. <i>Sensors</i> , 2018 , 18,	3.8	89
600	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	0.7	89
599	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		88
598	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	3.6	86
597	GIS-based landslide spatial modeling in Ganzhou City, China. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	86
596	Landslide Susceptibility Mapping Using Different GIS-Based Bivariate Models. <i>Water (Switzerland)</i> , 2019 , 11, 1402	3	82
595	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
594	Rainfall-induced landslide susceptibility assessment at the Chongren area (China) using frequency ratio, certainty factor, and index of entropy. <i>Geocarto International</i> , 2016 , 1-16	2.7	81
593	Groundwater potential mapping using a novel data-mining ensemble model. <i>Hydrogeology Journal</i> , 2019 , 27, 211-224	3.1	80

592	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	7.9	80
591	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
590	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		79
589	Spatial prediction of landslide hazard at the Luxi area (China) using support vector machines. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	78
588	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
587	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	4.9	77
586	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	4.5	77
585	A Novel Swarm Intelligence-Harris Hawks Optimization for Spatial Assessment of Landslide Susceptibility. <i>Sensors</i> , 2019 , 19,	3.8	76
584	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	2.1	75
583	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	3.1	75
582	Groundwater potential zonation for basaltic watersheds using satellite remote sensing data and GIS techniques. <i>Open Geosciences</i> , 2009 , 1,	1.3	75
581	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	4.8	74
580	Flood Susceptibility Mapping Using GIS-Based Analytic Network Process: A Case Study of Perlis, Malaysia. <i>Water (Switzerland)</i> , 2019 , 11, 615	3	73
579	Deep Learning Approaches Applied to Remote Sensing Datasets for Road Extraction: A State-Of-The-Art Review. <i>Remote Sensing</i> , 2020 , 12, 1444	5	73
578	Spatial Modelling of Gully Erosion Using GIS and R Programming: A Comparison among Three Data Mining Algorithms. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1369	2.6	73
577	Land Cover Classification from fused DSM and UAV Images Using Convolutional Neural Networks. <i>Remote Sensing</i> , 2019 , 11, 1461	5	72
576	A novel hybrid evidential belief function-based fuzzy logic model in spatial prediction of rainfall-induced shallow landslides in the Lang Son city area (Vietnam). <i>Geomatics, Natural Hazards and Risk</i> , 2015 , 6, 243-271	3.6	72
575	Spatial modelling of gully erosion using evidential belief function, logistic regression, and a new ensemble of evidential belief function and logistic regression algorithm. <i>Land Degradation and Development</i> , 2018 , 29, 4035-4049	4.4	72

574	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	3.6	69
573	Landslide susceptibility mapping along Bhalubang Bhiwapur area of mid-Western Nepal using frequency ratio and conditional probability models. <i>Journal of Mountain Science</i> , 2014 , 11, 1266-1285	2.1	69
572	Severity Prediction of Traffic Accidents with Recurrent Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 476	2.6	68
571	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
570	An integrated DRASTIC model using frequency ratio and two new hybrid methods for groundwater vulnerability assessment. <i>Natural Hazards</i> , 2015 , 76, 543-563	3	65
569	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 1610-1622	8.1	64
568	Approaches for delineating landslide hazard areas using different training sites in an advanced artificial neural network model. <i>Geo-Spatial Information Science</i> , 2010 , 13, 93-102	3.5	63
567	Rainfall Induced Landslide Studies in Indian Himalayan Region: A Critical Review. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2466	2.6	62
566	Landslide vulnerability and risk assessment for multi-hazard scenarios using airborne laser scanning data (LiDAR). <i>Landslides</i> , 2017 , 14, 1057-1076	6.6	62
565	Application of Multi-Sensor Satellite Data for Exploration of ZnBb Sulfide Mineralization in the Franklinian Basin, North Greenland. <i>Remote Sensing</i> , 2018 , 10, 1186	5	62
564	A 100-year maximum flood susceptibility mapping using integrated hydrological and hydrodynamic models: Kelantan River Corridor, Malaysia. <i>Journal of Flood Risk Management</i> , 2011 , 4, 189-202	3.1	61
563	A Novel Hybrid Swarm Optimized Multilayer Neural Network for Spatial Prediction of Flash Floods in Tropical Areas Using Sentinel-1 SAR Imagery and Geospatial Data. <i>Sensors</i> , 2018 , 18,	3.8	61
562	A Novel Ensemble Artificial Intelligence Approach for Gully Erosion Mapping in a Semi-Arid Watershed (Iran). <i>Sensors</i> , 2019 , 19,	3.8	60
561	Novel ensembles of COPRAS multi-criteria decision-making with logistic regression, boosted regression tree, and random forest for spatial prediction of gully erosion susceptibility. <i>Science of the Total Environment</i> , 2019 , 688, 903-916	10.2	59
560	Comparison of machine learning models for gully erosion susceptibility mapping. <i>Geoscience Frontiers</i> , 2020 , 11, 1609-1620	6	59
559	Shallow Landslide Prediction Using a Novel Hybrid Functional Machine Learning Algorithm. <i>Remote Sensing</i> , 2019 , 11, 931	5	58
558	Landslide susceptibility maps using different probabilistic and bivariate statistical models and comparison of their performance at Wadi Itwad Basin, Asir Region, Saudi Arabia. <i>Bulletin of Engineering Geology and the Environment</i> , 2016 , 75, 63-87	4	57
557	Assessment of Landslide Susceptibility Using Statistical- and Artificial Intelligence-based FRBF Integrated Model and Multiresolution DEMs. <i>Remote Sensing</i> , 2019 , 11, 999	5	57

556	Improvement of Best First Decision Trees Using Bagging and Dagging Ensembles for Flood Probability Mapping. <i>Water Resources Management</i> , 2020 , 34, 3037-3053	3.7	57
555	Modeling landslide susceptibility in data-scarce environments using optimized data mining and statistical methods. <i>Geomorphology</i> , 2018 , 303, 284-298	4.3	57
554	Coupling of remote sensing data aided with field investigations for geological hazards assessment in Jazan area, Kingdom of Saudi Arabia. <i>Environmental Earth Sciences</i> , 2012 , 65, 119-130	2.9	56
553	Landslide Susceptibility Mapping Using a Spatial Multi Criteria Evaluation Model at Haraz Watershed, Iran 2012 , 23-49		56
552	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	2.4	55
551	Soil erosion prediction based on land cover dynamics at the Semenyih watershed in Malaysia using LTM and USLE models. <i>Geocarto International</i> , 2016 , 31, 1158-1177	2.7	55
550	The Feasibility of Three Prediction Techniques of the Artificial Neural Network, Adaptive Neuro-Fuzzy Inference System, and Hybrid Particle Swarm Optimization for Assessing the Safety Factor of Cohesive Slopes. <i>ISPRS International Journal of Geo-Information</i> , 2019 , 8, 391	2.9	54
549	A Hybrid Analytic Network Process and Artificial Neural Network (ANP-ANN) Model for Urban Earthquake Vulnerability Assessment. <i>Remote Sensing</i> , 2018 , 10, 975	5	53
548	Improving Landslide Detection from Airborne Laser Scanning Data Using Optimized Dempster-Shafer. <i>Remote Sensing</i> , 2018 , 10, 1029	5	53
547	Gully erosion susceptibility mapping using GIS-based multi-criteria decision analysis techniques. <i>Catena</i> , 2019 , 180, 282-297	5.8	52
546	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015 , 8, 674-690	4.7	52
545	Inverse method using boosted regression tree and k-nearest neighbor to quantify effects of point and non-point source nitrate pollution in groundwater. <i>Journal of Cleaner Production</i> , 2019 , 228, 1248-1263	10.3	51
544	Assessing Spatial Flood Vulnerability at Kalapara Upazila in Bangladesh Using an Analytic Hierarchy Process. <i>Sensors</i> , 2019 , 19,	3.8	50
543	Landslide Detection Using Residual Networks and the Fusion of Spectral and Topographic Information. <i>IEEE Access</i> , 2019 , 7, 114363-114373	3.5	50
542	A recent scenario of mass wasting and its impact on the transportation in Alborz Mountains, Iran using geo-information technology. <i>Arabian Journal of Geosciences</i> , 2011 , 4, 1337-1349	1.8	50
541	Comparative assessment using boosted regression trees, binary logistic regression, frequency ratio and numerical risk factor for gully erosion susceptibility modelling. <i>Catena</i> , 2019 , 183, 104223	5.8	49
540	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 4331-4342	8.1	49
539	Landslide susceptibility assessment using a novel hybrid model of statistical bivariate methods (FR and WOE) and adaptive neuro-fuzzy inference system (ANFIS) at southern Zagros Mountains in Iran. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	48

538	Spatio-temporal analysis of urban growth from remote sensing data in Bandar Abbas city, Iran. <i>Egyptian Journal of Remote Sensing and Space Science</i> , 2015 , 18, 35-52	3.4	48
537	GIS-based sustainable city compactness assessment using integration of MCDM, Bayes theorem and RADAR technology. <i>Geocarto International</i> , 2015 , 30, 365-387	2.7	48
536	Effectiveness evaluation of objective and subjective weighting methods for aquifer vulnerability assessment in urban context. <i>Journal of Hydrology</i> , 2016 , 541, 1303-1315	6	48
535	Semi-automated procedures for shoreline extraction using single RADARSAT-1 SAR image. <i>Estuarine, Coastal and Shelf Science</i> , 2011 , 95, 395-400	2.9	48
534	Identification of erosion-prone areas using different multi-criteria decision-making techniques and GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2018 , 9, 1129-1155	3.6	48
533	Fuzzy-metaheuristic ensembles for spatial assessment of forest fire susceptibility. <i>Journal of Environmental Management</i> , 2020 , 260, 109867	7.9	47
532	GIS-based Groundwater Spring Potential Mapping Using Data Mining Boosted Regression Tree and Probabilistic Frequency Ratio Models in Iran. <i>AIMS Geosciences</i> , 2017 , 3, 91-115	1.6	47
531	A novel approach for predicting the spatial patterns of urban expansion by combining the chi-squared automatic integration detection decision tree, Markov chain and cellular automata models in GIS. <i>Geocarto International</i> , 2015 , 30, 858-881	2.7	46
530	Assessment of coastal vulnerability to multi-hazardous events using geospatial techniques along the eastern coast of Bangladesh. <i>Ocean and Coastal Management</i> , 2019 , 181, 104898	3.9	46
529	Landslide susceptibility assessment at Wadi Jawrah Basin, Jizan region, Saudi Arabia using two bivariate models in GIS. <i>Geosciences Journal</i> , 2015 , 19, 449-469	1.4	46
528	Flash flood susceptibility modelling using functional tree and hybrid ensemble techniques. <i>Journal of Hydrology</i> , 2020 , 587, 125007	6	45
527	A Hybrid Computational Intelligence Approach to Groundwater Spring Potential Mapping. <i>Water (Switzerland)</i> , 2019 , 11, 2013	3	45
526	Optimized Neural Architecture for Automatic Landslide Detection from High-Resolution Airborne Laser Scanning Data. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 730	2.6	45
525	Assessing drought vulnerability using geospatial techniques in northwestern part of Bangladesh. <i>Science of the Total Environment</i> , 2020 , 705, 135957	10.2	45
524	Self-Learning Random Forests Model for Mapping Groundwater Yield in Data-Scarce Areas. <i>Natural Resources Research</i> , 2019 , 28, 757-775	4.9	45
523	Application of Landsat-8, Sentinel-2, ASTER and WorldView-3 Spectral Imagery for Exploration of Carbonate-Hosted Pb-Zn Deposits in the Central Iranian Terrane (CIT). <i>Remote Sensing</i> , 2020 , 12, 1239	5	45
522	Drone-based land-cover mapping using a fuzzy unordered rule induction algorithm integrated into object-based image analysis. <i>International Journal of Remote Sensing</i> , 2017 , 38, 2535-2556	3.1	43
521	Comparison of Different Algorithms to Map Hydrothermal Alteration Zones Using ASTER Remote Sensing Data for Polymetallic Vein-Type Ore Exploration: Toroudhahshirin Magmatic Belt (TCMB), North Iran. <i>Remote Sensing</i> , 2019 , 11, 495	5	43

520	Optimizing an Adaptive Neuro-Fuzzy Inference System for Spatial Prediction of Landslide Susceptibility Using Four State-of-the-art Metaheuristic Techniques. <i>Sensors</i> , 2020 , 20,	3.8	43
519	Integrated model for earthquake risk assessment using neural network and analytic hierarchy process: Aceh province, Indonesia. <i>Geoscience Frontiers</i> , 2020 , 11, 613-634	6	43
518	Assessment of rockfall hazard at Al-Noor Mountain, Makkah city (Saudi Arabia) using spatio-temporal remote sensing data and field investigation. <i>Journal of African Earth Sciences</i> , 2015 , 101, 309-321	2.2	42
517	Forest fire susceptibility and risk mapping using remote sensing and geographical information systems (GIS). <i>Disaster Prevention and Management</i> , 2007 , 16, 344-352	1.5	42
516	Risk assessment of groundwater pollution with a new methodological framework: application of Dempster-Shafer theory and GIS. <i>Natural Hazards</i> , 2015 , 78, 1565-1585	3	41
515	Identifying high potential zones of gold mineralization in a sub-tropical region using Landsat-8 and ASTER remote sensing data: A case study of the Ngoura-Colomines goldfield, eastern Cameroon. <i>Ore Geology Reviews</i> , 2020 , 122, 103530	3.2	41
514	Assessment of land cover and land use change impact on soil loss in a tropical catchment by using multitemporal SPOT-5 satellite images and Revised Universal Soil Loss Equation model. <i>Land Degradation and Development</i> , 2018 , 29, 3440-3455	4.4	41
513	Tropical cyclone risk assessment using geospatial techniques for the eastern coastal region of Bangladesh. <i>Science of the Total Environment</i> , 2019 , 692, 10-22	10.2	41
512	Detection of vertical slope movement in highly vegetated tropical area of Gunung pass landslide, Malaysia, using L-band InSAR technique. <i>Geosciences Journal</i> , 2014 , 18, 61-68	1.4	41
511	Per-pixel and object-oriented classification methods for mapping urban land cover extraction using SPOT 5 imagery. <i>Geocarto International</i> , 2014 , 29, 792-806	2.7	41
510	Evaluation of watershed health using Fuzzy-ANP approach considering geo-environmental and topo-hydrological criteria. <i>Journal of Environmental Management</i> , 2019 , 232, 22-36	7.9	41
509	Spatial modelling of site suitability assessment for hospitals using geographical information system-based multicriteria approach at Qazvin city, Iran. <i>Geocarto International</i> , 2014 , 29, 164-184	2.7	40
508	Spatio-temporal Assessment of Urban Heat Island Effects in Kuala Lumpur Metropolitan City Using Landsat Images 2014 , 42, 829-837		40
507	Landsat-8, Advanced Spaceborne Thermal Emission and Reflection Radiometer, and WorldView-3 Multispectral Satellite Imagery for Prospecting Copper-Gold Mineralization in the Northeastern Inglefield Mobile Belt (IMB), Northwest Greenland. <i>Remote Sensing</i> , 2019 , 11, 2430	5	40
506	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	6	38
505	Remote Sensing Data Derived Parameters and its Use in Landslide Susceptibility Assessment Using Shannon's Entropy and GIS. <i>Applied Mechanics and Materials</i> , 2012 , 225, 486-491	0.3	38
504	Spatial prediction of gully erosion using ALOS PALSAR data and ensemble bivariate and data mining models. <i>Geosciences Journal</i> , 2019 , 23, 669-686	1.4	37
503	Mapping Listvenite Occurrences in the Damage Zones of Northern Victoria Land, Antarctica Using ASTER Satellite Remote Sensing Data. <i>Remote Sensing</i> , 2019 , 11, 1408	5	37

502	Novel hybrid intelligence models for flood-susceptibility prediction: Meta optimization of the GMDH and SVR models with the genetic algorithm and harmony search. <i>Journal of Hydrology</i> , 2020 , 590, 125423	6	37
501	Ubiquitous Localization (UbiLoc): A Survey and Taxonomy on Device Free Localization for Smart World. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 3532-3564	37.1	36
500	Estimation of rainfall threshold and its use in landslide hazard mapping of Kuala Lumpur metropolitan and surrounding areas. <i>Landslides</i> , 2015 , 12, 861-875	6.6	36
499	Utilization of optical remote sensing data and geographic information system tools for regional landslide hazard analysis by using binomial logistic regression model. <i>Journal of Applied Remote Sensing</i> , 2008 , 2, 023542	1.4	36
498	A decade of modern cave surveying with terrestrial laser scanning: A review of sensors, method and application development. <i>International Journal of Speleology</i> , 2016 , 45, 71-88	2	36
497	Prediction of spatial soil loss impacted by long-term land-use/land-cover change in a tropical watershed. <i>Geoscience Frontiers</i> , 2019 , 10, 389-403	6	36
496	Application of rotation forest with decision trees as base classifier and a novel ensemble model in spatial modeling of groundwater potential. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 248	3.1	35
495	Spatial patterns of heavy metals in soil under different geological structures and land uses for assessing metal enrichments. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 9871-88	3.1	35
494	Evaluation of groundwater vulnerability to pollution using DRASTIC framework and GIS. <i>Arabian Journal of Geosciences</i> , 2017 , 10, 1	1.8	34
493	Deep Learning Approach for Building Detection Using LiDAR/Orthophoto Fusion. <i>Journal of Sensors</i> , 2018 , 2018, 1-12	2	33
492	Field-based landcover classification using TerraSAR-X texture analysis. <i>Advances in Space Research</i> , 2011 , 48, 799-805	2.4	33
491	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	6	33
490	Long lead time drought forecasting using lagged climate variables and a stacked long short-term memory model. <i>Science of the Total Environment</i> , 2021 , 755, 142638	10.2	33
489	Sustainable Brownfields Land Use Change Modeling Using GIS-based Weights-of-Evidence Approach. <i>Applied Spatial Analysis and Policy</i> , 2016 , 9, 21-38	1.7	32
488	Fusion of RADARSAT-2 and multispectral optical remote sensing data for LULC extraction in a tropical agricultural area. <i>Geocarto International</i> , 2017 , 32, 735-748	2.7	32
487	Groundwater aquifer potential modeling using an ensemble multi-adoptive boosting logistic regression technique. <i>Journal of Hydrology</i> , 2019 , 579, 124172	6	32
486	A novel ensemble computational intelligence approach for the spatial prediction of land subsidence susceptibility. <i>Science of the Total Environment</i> , 2020 , 726, 138595	10.2	32
485	Improving the accuracy of landslide susceptibility model using a novel region-partitioning approach. <i>Landslides</i> , 2018 , 15, 753-772	6.6	32

484	Oil Palm Counting and Age Estimation from WorldView-3 Imagery and LiDAR Data Using an Integrated OBIA Height Model and Regression Analysis. <i>Journal of Sensors</i> , 2018 , 2018, 1-13	2	32
483	Estimating Rainfall Thresholds for Landslide Occurrence in the Bhutan Himalayas. <i>Water (Switzerland)</i> , 2019 , 11, 1616	3	32
482	Weathering and mineralogical variation in gneissic rocks and their effect in Sangrumba Landslide, East Nepal. <i>Environmental Earth Sciences</i> , 2014 , 71, 2711-2727	2.9	32
481	Pathways and challenges of the application of artificial intelligence to geohazards modelling. <i>Gondwana Research</i> , 2020 ,	5.1	32
480	Land use change modeling and the effect of compact city paradigms: integration of GIS-based cellular automata and weights-of-evidence techniques. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	31
479	Assessment and comparison of combined bivariate and AHP models with logistic regression for landslide susceptibility mapping in the Chaharmahal-e-Bakhtiari Province, Iran. <i>Arabian Journal of Geosciences</i> , 2016 , 9, 1	1.8	31
478	Spatio-temporal assessment of soil erosion at Kuala Lumpur metropolitan city using remote sensing data and GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2014 , 5, 252-270	3.6	31
477	Assessment of groundwater nitrate contamination hazard in a semi-arid region by using integrated parametric IPNOA and data-driven logistic regression models. <i>Environmental Monitoring and Assessment</i> , 2018 , 190, 633	3.1	31
476	Implementation of Artificial Intelligence Based Ensemble Models for Gully Erosion Susceptibility Assessment. <i>Remote Sensing</i> , 2020 , 12, 3620	5	30
475	Surface runoff prediction regarding LULC and climate dynamics using coupled LTM, optimized ARIMA, and GIS-based SCS-CN models in tropical region. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	30
474	Remote Sensing Data Reveals Eco-Environmental Changes in Urban Areas of Klang Valley, Malaysia: Contribution from Object Based Analysis 2013 , 41, 981-991		30
473	VNet: An End-to-End Fully Convolutional Neural Network for Road Extraction From High-Resolution Remote Sensing Data. <i>IEEE Access</i> , 2020 , 8, 179424-179436	3.5	30
472	Proposing a Novel Predictive Technique for Gully Erosion Susceptibility Mapping in Arid and Semi-arid Regions (Iran). <i>Remote Sensing</i> , 2019 , 11, 2577	5	30
471	Flood Hazard Assessment of the Urban Area of Tabuk City, Kingdom of Saudi Arabia by Integrating Spatial-Based Hydrologic and Hydrodynamic Modeling. <i>Sensors</i> , 2019 , 19,	3.8	29
470	Using ALOS PALSAR derived high-resolution DInSAR to detect slow-moving landslides in tropical forest: Cameron Highlands, Malaysia. <i>Geomatics, Natural Hazards and Risk</i> , 2015 , 6, 741-759	3.6	29
469	Assessing Soil Erosion Hazards Using Land-Use Change and Landslide Frequency Ratio Method: A Case Study of Sabaragamuwa Province, Sri Lanka. <i>Remote Sensing</i> , 2020 , 12, 1483	5	29
468	IoT-Based Geotechnical Monitoring of Unstable Slopes for Landslide Early Warning in the Darjeeling Himalayas. <i>Sensors</i> , 2020 , 20,	3.8	29
467	Unseen Land Cover Classification from High-Resolution Orthophotos Using Integration of Zero-Shot Learning and Convolutional Neural Networks. <i>Remote Sensing</i> , 2020 , 12, 1676	5	29

466	Short-Term Spatio-Temporal Drought Forecasting Using Random Forests Model at New South Wales, Australia. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4254	2.6	29
465	A hybrid model using machine learning methods and GIS for potential rockfall source identification from airborne laser scanning data. <i>Landslides</i> , 2018 , 15, 1833-1850	6.6	29
464	An improved algorithm for identifying shallow and deep-seated landslides in dense tropical forest from airborne laser scanning data. <i>Catena</i> , 2018 , 167, 147-159	5.8	29
463	Forest fire induced Natech risk assessment: A survey of geospatial technologies. <i>Reliability Engineering and System Safety</i> , 2019 , 191, 106558	6.3	29
462	Landslide Susceptibility Mapping Along the National Road 32 of Vietnam Using GIS-Based J48 Decision Tree Classifier and Its Ensembles. <i>Lecture Notes in Geoinformation and Cartography</i> , 2014 , 303-317	9.3	29
461	Improvement of land-use classification using object-oriented and fuzzy logic approach. <i>Applied Geomatics</i> , 2009 , 1, 111-120	2.2	29
460	An ensemble architecture of deep convolutional Segnet and Unet networks for building semantic segmentation from high-resolution aerial images. <i>Geocarto International</i> , 2020 , 1-16	2.7	29
459	Building Footprint Extraction from High Resolution Aerial Images Using Generative Adversarial Network (GAN) Architecture. <i>IEEE Access</i> , 2020 , 8, 209517-209527	3.5	29
458	Morphometric Analysis for Soil Erosion Susceptibility Mapping Using Novel GIS-Based Ensemble Model. <i>Remote Sensing</i> , 2020 , 12, 874	5	29
457	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
456	Risk assessment of groundwater pollution using Monte Carlo approach in an agricultural region: An example from Kerman Plain, Iran. <i>Computers, Environment and Urban Systems</i> , 2015 , 50, 66-73	5.9	28
455	Evaluating the Performance of Individual and Novel Ensemble of Machine Learning and Statistical Models for Landslide Susceptibility Assessment at Rudraprayag District of Garhwal Himalaya. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3772	2.6	28
454	A comparative study of THG, AS, TA, Theta, TDX and LTHG techniques for improving source boundaries detection of magnetic data using synthetic models: A case study from G. Um Monqul, North Eastern Desert, Egypt. <i>Journal of African Earth Sciences</i> , 2020 , 170, 103940	2.2	28
453	Hybridized neural fuzzy ensembles for dust source modeling and prediction. <i>Atmospheric Environment</i> , 2020 , 224, 117320	5.3	28
452	Quantification of Runoff as Influenced by Morphometric Characteristics in a Rural Complex Catchment. <i>Earth Systems and Environment</i> , 2018 , 2, 145-162	7.5	28
451	Developing robust arsenic awareness prediction models using machine learning algorithms. <i>Journal of Environmental Management</i> , 2018 , 211, 125-137	7.9	28
450	Impact of COVID-19 Induced Lockdown on Environmental Quality in Four Indian Megacities Using Landsat 8 OLI and TIRS-Derived Data and Mamdani Fuzzy Logic Modelling Approach. <i>Sustainability</i> , 2020 , 12, 5464	3.6	28
449	An improved SPEI drought forecasting approach using the long short-term memory neural network. <i>Journal of Environmental Management</i> , 2021 , 283, 111979	7.9	28

448	An ensemble model for landslide susceptibility mapping in a forested area. <i>Geocarto International</i> , 2020 , 35, 1680-1705	2.7	28
447	Landslide spatial modelling using unsupervised factor optimisation and regularised greedy forests. <i>Computers and Geosciences</i> , 2020 , 134, 104336	4.5	28
446	Optimized Conditioning Factors Using Machine Learning Techniques for Groundwater Potential Mapping. <i>Water (Switzerland)</i> , 2019 , 11, 1909	3	27
445	Novel Machine Learning Approaches for Modelling the Gully Erosion Susceptibility. <i>Remote Sensing</i> , 2020 , 12, 2833	5	27
444	Band Ratios Matrix Transformation (BRMT): A Sedimentary Lithology Mapping Approach Using ASTER Satellite Sensor. <i>Sensors</i> , 2018 , 18,	3.8	27
443	Applying systems thinking to flood disaster management for a sustainable development. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 36, 101101	4.5	26
442	Spatial Landslide Risk Assessment at Phuentsholing, Bhutan. <i>Geosciences (Switzerland)</i> , 2020 , 10, 131	2.7	26
441	Fusion of Airborne LiDAR With Multispectral SPOT 5 Image for Enhancement of Feature Extraction Using Dempster-Shafer Theory. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 6017-6025	8.1	26
440	Application and verification of a fractal approach to landslide susceptibility mapping. <i>Natural Hazards</i> , 2012 , 61, 169-185	3	26
439	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 2055-2066	4.7	25
438	Temporal Hydrological Drought Index Forecasting for New South Wales, Australia Using Machine Learning Approaches. <i>Atmosphere</i> , 2020 , 11, 585	2.7	25
437	Integrated ANN-cross-validation and AHP-TOPSIS model to improve earthquake risk assessment. <i>International Journal of Disaster Risk Reduction</i> , 2020 , 50, 101723	4.5	25
436	Earthquake vulnerability assessment in Northern Sumatra province by using a multi-criteria decision-making model. <i>International Journal of Disaster Risk Reduction</i> , 2020 , 46, 101518	4.5	25
435	Spatial Monitoring of Desertification Extent in Western Iraq using Landsat Images and GIS. <i>Land Degradation and Development</i> , 2017 , 28, 2418-2431	4.4	25
434	Assessment of spatial relationship between land surface temperature and landuse/cover retrieval from multi-temporal remote sensing data in South Karkheh Sub-basin, Iran. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 525-537	1.8	24
433	Evaluation of Recent Advanced Soft Computing Techniques for Gully Erosion Susceptibility Mapping: A Comparative Study. <i>Sensors</i> , 2020 , 20,	3.8	24
432	A Two-Stage Optimization Strategy for Fuzzy Object-Based Analysis Using Airborne LiDAR and High-Resolution Orthophotos for Urban Road Extraction. <i>Journal of Sensors</i> , 2017 , 2017, 1-17	2	24
431	The relationship between geology and rock weathering on the rock instability along Mugling-Narayanghat road corridor, Central Nepal Himalaya. <i>Natural Hazards</i> , 2013 , 66, 501-532	3	24

430	Coupling of DEM and remote-sensing-based approaches for semi-automated detection of regional geostructural features in Zagros mountain, Iran. <i>Arabian Journal of Geosciences</i> , 2013 , 6, 91-99	1.8	24
429	Wavelet triangulated irregular networks. <i>International Journal of Geographical Information Science</i> , 2003 , 17, 273-289	4.1	24
428	The use of RUSLE and GCMs to predict potential soil erosion associated with climate change in a monsoon-dominated region of eastern India. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	24
427	Computer Vision and IoT-Based Sensors in Flood Monitoring and Mapping: A Systematic Review. <i>Sensors</i> , 2019 , 19,	3.8	24
426	Flood susceptibility prediction using four machine learning techniques and comparison of their performance at Wadi Qena Basin, Egypt. <i>Natural Hazards</i> , 2021 , 105, 83-114	3	24
425	Spatio-temporal Prediction of Urban Expansion Using Bivariate Statistical Models: Assessment of the Efficacy of Evidential Belief Functions and Frequency Ratio Models. <i>Applied Spatial Analysis and Policy</i> , 2016 , 9, 213-231	1.7	23
424	Semi-quantitative landslide risk assessment using GIS-based exposure analysis in Kuala Lumpur City. <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 706-732	3.6	23
423	Modeling of CO Emissions from Traffic Vehicles Using Artificial Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 313	2.6	23
422	Meta-heuristic algorithms in optimizing GALDIT framework: A comparative study for coastal aquifer vulnerability assessment. <i>Journal of Hydrology</i> , 2020 , 585, 124768	6	23
421	Novel Ensemble Approaches of Machine Learning Techniques in Modeling the Gully Erosion Susceptibility. <i>Remote Sensing</i> , 2020 , 12, 1890	5	23
420	A Review on Recent Progress in Thermal Imaging and Deep Learning Approaches for Breast Cancer Detection. <i>IEEE Access</i> , 2020 , 8, 116176-116194	3.5	23
419	Temporal Probability Assessment and Its Use in Landslide Susceptibility Mapping for Eastern Bhutan. <i>Water (Switzerland)</i> , 2020 , 12, 267	3	23
418	Geostructural stability assessment of cave using rock surface discontinuity extracted from terrestrial laser scanning point cloud. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2018 , 10, 534-544	5.3	23
417	Desertification Sensitivity Analysis Using MEDALUS Model and GIS: A Case Study of the Oases of Middle Draa Valley, Morocco. <i>Sensors</i> , 2018 , 18,	3.8	23
416	Estimation of Rainfall-Induced Landslides Using the TRIGRS Model. <i>Earth Systems and Environment</i> , 2019 , 3, 575-584	7.5	23
415	A Comparative Assessment Between the Application of Fuzzy Unordered Rules Induction Algorithm and J48 Decision Tree Models in Spatial Prediction of Shallow Landslides at Lang Son City, Vietnam. <i>Society of Earth Scientists Series</i> , 2014 , 87-111	0.6	23
414	Debris flow impact assessment caused by 14 April 2012 rainfall along the Al-Hada Highway, Kingdom of Saudi Arabia using high-resolution satellite imagery. <i>Arabian Journal of Geosciences</i> , 2014 , 7, 2591-2601	1.8	23
413	Spatial prediction of rotational landslide using geographically weighted regression, logistic regression, and support vector machine models in Xing Guo area (China). <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 1997-2022	3.6	23

412	Assessment of fractal dimension and geometrical characteristics of the landslides identified in North of Tehran, Iran. <i>Environmental Earth Sciences</i> , 2014 , 71, 3617-3626	2.9	23
411	Coupling of remote sensing data and environmental-related parameters for dengue transmission risk assessment in Subang Jaya, Malaysia. <i>Geocarto International</i> , 2013 , 28, 258-272	2.7	23
410	X-Ray Image based COVID-19 Detection using Pre-trained Deep Learning Models		23
409	A novel rockfall hazard assessment using laser scanning data and 3D modelling in GIS. <i>Catena</i> , 2019 , 172, 435-450	5.8	23
408	The Selection of Rain Gauges and Rainfall Parameters in Estimating Intensity-Duration Thresholds for Landslide Occurrence: Case Study from Wayanad (India). <i>Water (Switzerland)</i> , 2020 , 12, 1000	3	23
407	Dam site suitability assessment at the Greater Zab River in northern Iraq using remote sensing data and GIS. <i>Journal of Hydrology</i> , 2019 , 574, 964-979	6	22
406	Spatial Assessment of Heavy Metals in Surface Soil from Klang District (Malaysia): An Example from a Tropical Environment. <i>Human and Ecological Risk Assessment (HERA)</i> , 2015 , 21, 1980-2003	4.9	22
405	Laser Scanning Systems and Techniques in Rockfall Source Identification and Risk Assessment: A Critical Review. <i>Earth Systems and Environment</i> , 2018 , 2, 163-182	7.5	22
404	Integration of SPOT-5 and ASTER satellite data for structural tracing and hydrothermal alteration mineral mapping: implications for Cu-Au prospecting. <i>International Journal of Image and Data Fusion</i> , 2018 , 9, 237-262	1.8	22
403	Estimating the Impact of Daily Weather on the Temporal Pattern of COVID-19 Outbreak in India. <i>Earth Systems and Environment</i> , 2020 , 4, 1-12	7.5	22
402	Spatial landslide hazard assessment along the Jelapang Corridor of the North-South Expressway in Malaysia using high resolution airborne LiDAR data. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 9789-9800	1.8	21
401	Gully Head-Cut Distribution Modeling Using Machine Learning Methods: A Case Study of N.W. Iran. <i>Water (Switzerland)</i> , 2020 , 12, 16	3	21
400	An Integrated GIS Based Statistical Model to Compute Groundwater Vulnerability Index for Decision Maker in Agricultural Area 2014 , 42, 777-788		21
399	Hydro-Chemical Analysis of the Ground Water of the Basaltic Catchments: Upper Bhatsai Region, Maharashtra. <i>The Open Hydrology Journal</i> , 2011 , 4, 51-57		21
398	Flood susceptibility assessment using extreme gradient boosting (EGB), Iran. <i>Earth Science Informatics</i> , 2021 , 14, 51-67	2.5	21
397	Extraction of road features from UAV images using a novel level set segmentation approach. <i>International Journal of Urban Sciences</i> , 2019 , 23, 391-405	2.2	20
396	Debris flow impact assessment along the Al-Raith Road, Kingdom of Saudi Arabia, using remote sensing data and field investigations. <i>Geomatics, Natural Hazards and Risk</i> , 2016 , 7, 620-638	3.6	20
395	Forecasting of Landslides Using Rainfall Severity and Soil Wetness: A Probabilistic Approach for Darjeeling Himalayas. <i>Water (Switzerland)</i> , 2020 , 12, 804	3	20

394	A methodological comparison of head-cut based gully erosion susceptibility models: Combined use of statistical and artificial intelligence. <i>Geomorphology</i> , 2020 , 359, 107136	4.3	20
393	Geospatial technologies for detection and monitoring of Ganoderma basal stem rot infection in oil palm plantations: a review on sensors and techniques. <i>Geocarto International</i> , 2018 , 33, 260-276	2.7	20
392	Natural Hazards and Social Vulnerability of Place: The Strength-Based Approach Applied to Wollongong, Australia. <i>International Journal of Disaster Risk Science</i> , 2019 , 10, 404-420	4.6	20
391	Tectonic process analysis in Zagros Mountain with the aid of drainage networks and topography maps dated 1950-2001 in GIS. <i>Arabian Journal of Geosciences</i> , 2011 , 4, 171-180	1.8	20
390	Performance Evaluation and Sensitivity Analysis of Expert-Based, Statistical, Machine Learning, and Hybrid Models for Producing Landslide Susceptibility Maps 2017 , 193-232		19
389	Comparative performance of new hybrid ANFIS models in landslide susceptibility mapping. <i>Natural Hazards</i> , 2020 , 103, 1961-1988	3	19
388	Rainfall Threshold Estimation and Landslide Forecasting for Kalimpong, India Using SIGMA Model. <i>Water (Switzerland)</i> , 2020 , 12, 1195	3	19
387	Spatio-Temporal Analysis of Oil Spill Impact and Recovery Pattern of Coastal Vegetation and Wetland Using Multispectral Satellite Landsat 8-OLI Imagery and Machine Learning Models. <i>Remote Sensing</i> , 2020 , 12, 1225	5	19
386	Land use/cover change detection and urban sprawl analysis in Bandar Abbas city, Iran. <i>Scientific World Journal, The</i> , 2014 , 2014, 690872	2.2	19
385	Seismic hazard and risk assessment: a review of state-of-the-art traditional and GIS models. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	19
384	Prediction of gully erosion susceptibility mapping using novel ensemble machine learning algorithms. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 469-498	3.6	19
383	Quantitative Assessment of Desertification in an Arid Oasis Using Remote Sensing Data and Spectral Index Techniques. <i>Remote Sensing</i> , 2018 , 10, 1862	5	19
382	Groundwater Augmentation through the Site Selection of Floodwater Spreading Using a Data Mining Approach (Case study: Mashhad Plain, Iran). <i>Water (Switzerland)</i> , 2018 , 10, 1405	3	19
381	Integrated technique of segmentation and classification methods with connected components analysis for road extraction from orthophoto images. <i>Expert Systems With Applications</i> , 2021 , 176, 114908	7.8	19
380	Remediation and mitigation strategies for rock fall hazards along the highways of Fayfa Mountain, Jazan Region, Kingdom of Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 2633-2651	1.8	18
379	Spatial modelling of gully erosion in the Ardib River Watershed using three statistical-based techniques. <i>Catena</i> , 2020 , 190, 104545	5.8	18
378	Long-Term Hydrologic Impact Assessment of Non-point Source Pollution Measured Through Land Use/Land Cover (LULC) Changes in a Tropical Complex Catchment. <i>Earth Systems and Environment</i> , 2018 , 2, 67-84	7.5	18
377	Data Mining and Statistical Approaches in Debris-Flow Susceptibility Modelling Using Airborne LiDAR Data. <i>Sensors</i> , 2019 , 19,	3.8	18

376	Detecting coral bleaching, using QuickBird multi-temporal data: A Feasibility study at Kish Island, the Persian Gulf. <i>Estuarine, Coastal and Shelf Science</i> , 2013 , 117, 273-281	2.9	18
375	Extraction of soil moisture from RADARSAT-1 and its role in the formation of the 6 December 2008 landslide at Bukit Antarabangsa, Kuala Lumpur. <i>Arabian Journal of Geosciences</i> , 2014 , 7, 2831-2840	1.8	18
374	Coastal erosion vulnerability assessment along the eastern coast of Bangladesh using geospatial techniques. <i>Ocean and Coastal Management</i> , 2021 , 199, 105408	3.9	18
373	City Compactness: Assessing the Influence of the Growth of Residential Land Use. <i>Journal of Urban Technology</i> , 2018 , 25, 21-46	5.9	18
372	Sand dune risk assessment in Sabha region, Libya using Landsat 8, MODIS, and Google Earth Engine images. <i>Geomatics, Natural Hazards and Risk</i> , 2018 , 9, 1280-1305	3.6	18
371	Review of studies on hydrological modelling in Malaysia. <i>Modeling Earth Systems and Environment</i> , 2018 , 4, 1577-1605	3.2	18
370	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 3190-3199	4.7	17
369	A Novel Hybrid Machine Learning-Based Model for Rockfall Source Identification in Presence of Other Landslide Types Using LiDAR and GIS. <i>Earth Systems and Environment</i> , 2019 , 3, 491-506	7.5	17
368	Novel Ensemble of Multivariate Adaptive Regression Spline with Spatial Logistic Regression and Boosted Regression Tree for Gully Erosion Susceptibility. <i>Remote Sensing</i> , 2020 , 12, 3284	5	17
367	Developing a decision support system for Disaster Management: Case study of an Indonesia volcano eruption. <i>International Journal of Disaster Risk Reduction</i> , 2018 , 31, 711-721	4.5	17
366	Classification of Very High Resolution Aerial Photos Using Spectral-Spatial Convolutional Neural Networks. <i>Journal of Sensors</i> , 2018 , 2018, 1-12	2	17
365	Monitoring of Dead Sea water surface variation using multi-temporal satellite data and GIS. <i>Arabian Journal of Geosciences</i> , 2013 , 6, 3241-3248	1.8	17
364	Manifestation of Remote Sensing Data in Modeling Urban Sprawl Using the SLEUTH Model and Brute Force Calibration: A Case Study of Sana'a City, Yemen 2013 , 41, 405-416		17
363	Application of spaceborne synthetic aperture radar data for extraction of soil moisture and its use in hydrological modelling at Gottleuba Catchment, Saxony, Germany. <i>Journal of Flood Risk Management</i> , 2014 , 7, 159-175	3.1	17
362	Conditioning factor determination for mapping and prediction of landslide susceptibility using machine learning algorithms 2019 ,		17
361	Assessment of Wetland Ecosystem Health Using the PressureStateResponse (PSR) Model: A Case Study of Mursidabad District of West Bengal (India). <i>Sustainability</i> , 2020 , 12, 5932	3.6	17
360	RoadVecNet: a new approach for simultaneous road network segmentation and vectorization from aerial and google earth imagery in a complex urban set-up. <i>GIScience and Remote Sensing</i> , 1-24	4.8	17
359	Rule-based semi-automated approach for the detection of landslides induced by 18 September 2011 Sikkim, Himalaya, earthquake using IRS LISS3 satellite images. <i>Geomatics, Natural Hazards and Risk</i> , 2016 , 7, 326-344	3.6	16

358	Modeling the effect of land use and climate change scenarios on future soil loss rate in Kasilian watershed of northern Iran. <i>Environmental Earth Sciences</i> , 2017 , 76, 1	2.9	16
357	Assessment of the effects of expressway geometric design features on the frequency of accident crash rates using high-resolution laser scanning data and GIS. <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 733-747	3.6	16
356	A Spatial Ensemble Model for Rockfall Source Identification From High Resolution LiDAR Data and GIS. <i>IEEE Access</i> , 2019 , 7, 74570-74585	3.5	16
355	An integrated fluvial and flash pluvial model using 2D high-resolution sub-grid and particle swarm optimization-based random forest approaches in GIS. <i>Complex & Intelligent Systems</i> , 2019 , 5, 283-302	7.1	16
354	Estimating chlorophyll content at leaf scale in viroid-inoculated oil palm seedlings (<i>Elaeis guineensis</i> Jacq.) using reflectance spectra (400 nm–1050 nm). <i>International Journal of Remote Sensing</i> , 2019 , 40, 7647-7662	3.1	16
353	Vehicular traffic noise prediction and propagation modelling using neural networks and geospatial information system. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 190	3.1	16
352	Relationship between design floods and land use land cover (LULC) changes in a tropical complex catchment. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	16
351	An integrated user-friendly ArcMAP tool for bivariate statistical modelling in geoscience applications. <i>Geoscientific Model Development</i> , 2015 , 8, 881-891	6.3	16
350	Use of Remote Sensing Data and GIS Tools for Seismic Hazard Assessment for Shallow Oilfields and its Impact on the Settlements at Masjed-i-Soleiman Area, Zagros Mountains, Iran. <i>Remote Sensing</i> , 2010 , 2, 1364-1377	5	16
349	Effect of Impactor Parameters and Laminate Characteristics on Impact Response and Damage in Curved Composite Laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2007 , 26, 1273-1290	2.9	16
348	Application of an advanced fuzzy logic model for landslide susceptibility analysis. <i>International Journal of Computational Intelligence Systems</i> , 2010 , 3, 370	3.4	16
347	Systematic sample subdividing strategy for training landslide susceptibility models. <i>Catena</i> , 2020 , 187, 104358	5.8	16
346	Water Resources Management Through Flood Spreading Project Suitability Mapping Using Frequency Ratio, k-nearest Neighbours, and Random Forest Algorithms. <i>Natural Resources Research</i> , 2020 , 29, 1915-1933	4.9	16
345	Vehicular CO Emission Prediction Using Support Vector Regression Model and GIS. <i>Sustainability</i> , 2018 , 10, 3434	3.6	16
344	Optimized Location-Allocation of Earthquake Relief Centers Using PSO and ACO, Complemented by GIS, Clustering, and TOPSIS. <i>ISPRS International Journal of Geo-Information</i> , 2018 , 7, 292	2.9	16
343	A new approach for land degradation and desertification assessment using geospatial techniques. <i>Natural Hazards and Earth System Sciences</i> , 2018 , 18, 1133-1140	3.9	16
342	Urban Vegetation Mapping from Aerial Imagery Using Explainable AI (XAI). <i>Sensors</i> , 2021 , 21,	3.8	16
341	Using Susceptible-Exposed-Infectious-Recovered Model to Forecast Coronavirus Outbreak. <i>Computers, Materials and Continua</i> , 2021 , 67, 1595-1612	3.9	16

340	Allocation of emergency response centres in response to pluvial flooding-prone demand points using integrated multiple layer perceptron and maximum coverage location problem models. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 38, 101205	4.5	15
339	Hyperspectral imaging as an effective tool for prediction the moisture content and textural characteristics of roasted pistachio kernels. <i>Journal of Food Measurement and Characterization</i> , 2018 , 12, 1493-1502	2.8	15
338	Assessment of bioavailability and human health exposure risk to heavy metals in surface soils (Klang district, Malaysia). <i>Toxin Reviews</i> , 2018 , 37, 196-205	2.3	15
337	Seasonal variability of chlorophyll-a and oceanographic conditions in Sabah waters in relation to Asian monsoon--a remote sensing study. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 3977-91	3.1	15
336	A review on 3D terrain visualization of GIS data: techniques and software. <i>Geo-Spatial Information Science</i> , 2012 , 15, 105-115	3.5	15
335	Assessment of multi-scenario rockfall hazard based on mechanical parameters using high-resolution airborne laser scanning data and GIS in a tropical area. <i>Environmental Earth Sciences</i> , 2016 , 75, 1	2.9	15
334	Effects of clay properties in the landslides genesis in flysch massif: Case study of Abi Draham, North Western Tunisia. <i>Journal of African Earth Sciences</i> , 2019 , 151, 146-152	2.2	15
333	A generalized artificial intelligence model for estimating the friction angle of clays in evaluating slope stability using a deep neural network and Harris Hawks optimization algorithm. <i>Engineering With Computers</i> , 1	4.5	15
332	A Simplified Semi-Automatic Technique for Highway Extraction from High-Resolution Airborne LiDAR Data and Orthophotos 2017 , 45, 395-405		14
331	Analysing Spatial and Statistical Dependencies of Deforestation Affected by Residential Growth: Gorganrood Basin, Northeast Iran. <i>Land Degradation and Development</i> , 2017 , 28, 2176-2190	4.4	14
330	Assessment of post-tsunami disaster land use/land cover change and potential impact of future sea-level rise to low-lying coastal areas: A case study of Banda Aceh coast of Indonesia. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 41, 101292	4.5	14
329	A rule-based parameter aided with object-based classification approach for extraction of building and roads from WorldView-2 images. <i>Geocarto International</i> , 2014 , 29, 554-569	2.7	14
328	Earthquake hazard and risk assessment using machine learning approaches at Palu, Indonesia. <i>Science of the Total Environment</i> , 2020 , 749, 141582	10.2	14
327	Assessing the transferability of a hybrid Taguchi-objective function method to optimize image segmentation for detecting and counting cave roosting birds using terrestrial laser scanning data. <i>Journal of Applied Remote Sensing</i> , 2016 , 10, 035023	1.4	14
326	Assessment of earthquake-induced slope deformation of earth dams using soft computing techniques. <i>Landslides</i> , 2019 , 16, 91-103	6.6	14
325	Runout modeling and calibration of friction parameters of Kurichermala debris flow, India. <i>Landslides</i> , 2021 , 18, 737-754	6.6	14
324	Agricultural drought risk assessment of Northern New South Wales, Australia using geospatial techniques. <i>Science of the Total Environment</i> , 2021 , 756, 143600	10.2	14
323	Improving Road Semantic Segmentation Using Generative Adversarial Network. <i>IEEE Access</i> , 2021 , 9, 64381-64392	3.5	14

322	Interpretable and explainable AI (XAI) model for spatial drought prediction. <i>Science of the Total Environment</i> , 2021 , 801, 149797	10.2	14
321	A Novel Rule-based Approach In Mapping Landslide Susceptibility. <i>Sensors</i> , 2019 , 19,	3.8	13
320	Multi-scenario Rockfall Hazard Assessment Using LiDAR Data and GIS. <i>Geotechnical and Geological Engineering</i> , 2016 , 34, 1375-1393	1.5	13
319	Identification of Phyllosilicates in the Antarctic Environment Using ASTER Satellite Data: Case Study from the Mesa Range, Campbell and Priestley Glaciers, Northern Victoria Land. <i>Remote Sensing</i> , 2021 , 13, 38	5	13
318	Image Enhancement for Tuberculosis Detection Using Deep Learning. <i>IEEE Access</i> , 2020 , 8, 217897-217907	9.5	13
317	A refined classification approach by integrating Landsat Operational Land Imager (OLI) and RADARSAT-2 imagery for land-use and land-cover mapping in a tropical area. <i>International Journal of Remote Sensing</i> , 2016 , 37, 2358-2375	3.1	13
316	Hydro-geomorphic assessment of erosion intensity and sediment yield initiated debris-flow hazards at Wadi Dahab Watershed, Egypt. <i>Georisk</i> , 2020 , 1-26	1.9	13
315	Suspended sediment load prediction using artificial intelligence techniques: comparison between four state-of-the-art artificial neural network techniques. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	13
314	A Collaborative Change Detection Approach on Multi-Sensor Spatial Imagery for Desert Wetland Monitoring after a Flash Flood in Southern Morocco. <i>Remote Sensing</i> , 2019 , 11, 1042	5	12
313	Automatic landslide detection using Dempster-Shafer theory from LiDAR-derived data and orthophotos. <i>Geomatics, Natural Hazards and Risk</i> , 2017 , 8, 1935-1954	3.6	12
312	Spatio-temporal remotely sensed data for analysis of the shrinkage and shifting in the Al Hawizeh wetland. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 4156	3.1	12
311	Multi-temporal landsat images based on eco-environmental change analysis in and around Chah Nimeh reservoir, Balochistan (Iran). <i>Environmental Earth Sciences</i> , 2014 , 72, 801-809	2.9	12
310	Exploitation of TerraSAR-X Data for Land use/Land Cover Analysis Using Object-Oriented Classification Approach in the African Sahel Area, Sudan 2013 , 41, 539-553		12
309	Upliftment Estimation of the Zagros Transverse Fault in Iran Using Geoinformatics Technology. <i>Remote Sensing</i> , 2009 , 1, 1240-1256	5	12
308	A new strategy for spatial predictive mapping of mineral prospectivity: Automated hyperparameter tuning of random forest approach. <i>Computers and Geosciences</i> , 2021 , 148, 104688	4.5	12
307	Usage of antecedent soil moisture for improving the performance of rainfall thresholds for landslide early warning. <i>Catena</i> , 2021 , 200, 105147	5.8	12
306	Multi-Object Segmentation in Complex Urban Scenes from High-Resolution Remote Sensing Data. <i>Remote Sensing</i> , 2021 , 13, 3710	5	12
305	Hybrid ensemble machine learning approaches for landslide susceptibility mapping using different sampling ratios at East Sikkim Himalayan, India. <i>Advances in Space Research</i> , 2021 , 68, 2819-2840	2.4	12

304	Using Field-Based Monitoring to Enhance the Performance of Rainfall Thresholds for Landslide Warning. <i>Water (Switzerland)</i> , 2020 , 12, 3453	3	11
303	Machine Learning-Based and 3D Kinematic Models for Rockfall Hazard Assessment Using LiDAR Data and GIS. <i>Remote Sensing</i> , 2020 , 12, 1755	5	11
302	Estimating rainfall threshold and temporal probability for landslide occurrences in Darjeeling Himalayas. <i>Geosciences Journal</i> , 2020 , 24, 225-233	1.4	11
301	Simulation of hydrological processes and effects of engineering projects on the Karkheh River Basin and its wetland using SWAT2009. <i>Quaternary International</i> , 2015 , 374, 144-153	2	11
300	Volume, gravitational potential energy reduction, and regional centroid position change in the wake of landslides triggered by the 14 April 2010 Yushu earthquake of China. <i>Arabian Journal of Geosciences</i> , 2014 , 7, 2129-2138	1.8	11
299	Future Water Use Planning by Water Evaluation and Planning System Model. <i>Water Resources Management</i> , 2020 , 34, 4649-4664	3.7	11
298	Integrated multi-criteria analysis for groundwater potential mapping in Precambrian hard rock terranes (North Gujarat), India. <i>Hydrological Sciences Journal</i> , 2021 , 66, 961-978	3.5	11
297	Spatio-Temporal Assessment of Groundwater Potential Zone in the Drought-Prone Area of Bangladesh Using GIS-Based Bivariate Models. <i>Natural Resources Research</i> , 2021 , 30, 3315-3337	4.9	11
296	Integrating multilayer perceptron neural nets with hybrid ensemble classifiers for deforestation probability assessment in Eastern India. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 29-62	3.6	11
295	Oil spill trajectory modelling and environmental vulnerability mapping using GNOME model and GIS. <i>Environmental Pollution</i> , 2021 , 268, 115812	9.3	11
294	Machine learning algorithm for flash flood prediction mapping in Wadi El-Laqeita and surroundings, Central Eastern Desert, Egypt. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	11
293	Landslide Susceptibility Modeling: An Integrated Novel Method Based on Machine Learning Feature Transformation. <i>Remote Sensing</i> , 2021 , 13, 3281	5	11
292	Rockfall Hazard Assessment: An Overview 2017 , 299-322		10
291	Multi-criteria evaluation of suitable sites for termite mounds construction in a tropical lowland. <i>Catena</i> , 2019 , 178, 359-371	5.8	10
290	Hazard zoning for spatial planning using GIS-based landslide susceptibility assessment: a new hybrid integrated data-driven and knowledge-based model. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	10
289	Use of geological and geomorphological parameters in potential suitability assessment for urban planning development at Wadi Al-Asla basin, Jeddah, Kingdom of Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 5617-5630	1.8	10
288	Rainfall runoff modelling and water balance analysis for Al-Hindiyah barrage, Iraq using remote sensing and GIS. <i>Geocarto International</i> , 2017 , 32, 1407-1420	2.7	10
287	Geospatial Modeling for Sinkholes Hazard Map Based on GIS & RS Data. <i>Journal of Geographic Information System</i> , 2013 , 05, 584-592	0.4	10

286	Geospatial Modelling of Watershed Peak Flood Discharge in Selangor, Malaysia. <i>Water (Switzerland)</i> , 2019 , 11, 2490	3	10
285	Assessment of geochemical and sedimentological characteristics of atmospheric dust in Shiraz, southwest Iran. <i>Geoscience Frontiers</i> , 2020 , 11, 783-792	6	10
284	Assessing flood inundation mapping through estimated discharge using GIS and HEC-RAS model. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	10
283	Spatio-temporal simulation of future urban growth trends using an integrated CA-Markov model. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	10
282	Spatial Prediction of Landslide-Prone Areas Through k-Nearest Neighbor Algorithm and Logistic Regression Model Using High Resolution Airborne Laser Scanning Data 2017 , 151-165		9
281	A review on the effect of rubber membrane in triaxial tests. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 3195-3206		9
280	Evaluating Citizen Satisfaction and Prioritizing Their Needs Based on Citizens' Complaint Data. <i>Sustainability</i> , 2019 , 11, 4595	3.6	9
279	Quantitative analysis of urban sprawl in Tripoli using Pearson's Chi-Square statistics and urban expansion intensity index. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 20, 012006	0.3	9
278	Landslide susceptibility mapping using decision-tree based Chi-squared automatic interaction detection (CHAID) and Logistic regression (LR) integration. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 20, 012032	0.3	9
277	Six decades of urban growth using remote sensing and GIS in the city of Bandar Abbas, Iran. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 20, 012007	0.3	9
276	Rock toppling assessment at Mugling-Narayanghat road section: A case study from Mauri Khola landslide-Nepal. <i>Catena</i> , 2014 , 114, 67-77	5.8	9
275	Artificial neural networks in drought prediction in the 21st century: A scientometric analysis. <i>Applied Soft Computing Journal</i> , 2021 , 108080	7.5	9
274	Urban Development Modeling Using Integrated Fuzzy Systems, Ordered Weighted Averaging (OWA), and Geospatial Techniques. <i>Sustainability</i> , 2020 , 12, 809	3.6	9
273	Earthquake Probability Assessment for the Indian Subcontinent Using Deep Learning. <i>Sensors</i> , 2020 , 20,	3.8	9
272	Carbon Emissions from Oil Palm Induced Forest and Peatland Conversion in Sabah and Sarawak, Malaysia. <i>Forests</i> , 2020 , 11, 1285	2.8	9
271	Modeling of available soil phosphorus (ASP) using multi-objective group method of data handling. <i>Modeling Earth Systems and Environment</i> , 2016 , 2, 1	3.2	9
270	Prediction mapping of human leptospirosis using ANN, GWR, SVM and GLM approaches. <i>BMC Infectious Diseases</i> , 2019 , 19, 971	4	9
269	Proposing two novel hybrid intelligence models for forecasting copper price based on extreme learning machine and meta-heuristic algorithms. <i>Resources Policy</i> , 2021 , 73, 102195	7.2	9

268	Optimized Rule Sets for Automatic Landslide Characteristic Detection in a Highly Vegetated Forests 2017 , 51-68		8
267	Effects of the Spatial Resolution of Digital Elevation Models and Their Products on Landslide Susceptibility Mapping 2017 , 133-150		8
266	Assessment of rock slope stability and structurally controlled failures along Samma escarpment road, Asir Region (Saudi Arabia). <i>Arabian Journal of Geosciences</i> , 2015 , 8, 6835-6852	1.8	8
265	An investigation into seasonal variations of groundwater nitrate by spatial modelling strategies at two levels by kriging and co-kriging models. <i>Journal of Environmental Management</i> , 2020 , 270, 110843	7.9	8
264	The application of proximal visible and near-infrared spectroscopy to estimate soil organic matter on the Triffa Plain of Morocco. <i>International Soil and Water Conservation Research</i> , 2020 , 8, 195-204	6.9	8
263	Spatial assessment of termites interaction with groundwater potential conditioning parameters in Keffi, Nigeria. <i>Journal of Hydrology</i> , 2019 , 578, 124012	6	8
262	Advanced differential interferometry synthetic aperture radar techniques for deformation monitoring: a review on sensors and recent research development. <i>Geocarto International</i> , 2014 , 29, 536-553	2.7	8
261	Potential fish habitat mapping using MODIS-derived sea surface salinity, temperature and chlorophyll-a data: South China Sea Coastal areas, Malaysia. <i>Geocarto International</i> , 2013 , 28, 546-560	2.7	8
260	Second generation wavelets based GIS terrain data compression using Delaunay triangulation. <i>Engineering Computations</i> , 2007 , 24, 200-213	1.4	8
259	A New Integrated Approach for Landslide Data Balancing and Spatial Prediction Based on Generative Adversarial Networks (GAN). <i>Remote Sensing</i> , 2021 , 13, 4011	5	8
258	Urban object extraction using Dempster Shafer feature-based image analysis from worldview-3 satellite imagery. <i>International Journal of Remote Sensing</i> , 2019 , 40, 1092-1119	3.1	8
257	Spatial Prediction of Groundwater Potentiality in Large Semi-Arid and Karstic Mountainous Region Using Machine Learning Models. <i>Water (Switzerland)</i> , 2021 , 13, 2273	3	8
256	Understanding future urban growth, urban resilience and sustainable development of small cities using prediction-adaptation-resilience (PAR) approach. <i>Sustainable Cities and Society</i> , 2021 , 74, 103196	10.1	8
255	A Multidisciplinary Approach for Groundwater Potential Mapping in a Fractured Semi-Arid Terrain (Kerdous Inlier, Western Anti-Atlas, Morocco). <i>Water (Switzerland)</i> , 2022 , 14, 1553	3	8
254	Integration of LiDAR and QuickBird Data for Automatic Landslide Detection Using Object-Based Analysis and Random Forests 2017 , 69-81		7
253	Agriculture Sprawl Assessment Using Multi-Temporal Remote Sensing Images and Its Environmental Impact; Al-Jouf, KSA. <i>Sustainability</i> , 2019 , 11, 4177	3.6	7
252	Development of lag time and time of concentration for a tropical complex catchment under the influence of long-term land use/land cover (LULC) changes. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	7
251	MODIS Derived Sea Surface Salinity, Temperature, and Chlorophyll-a Data for Potential Fish Zone Mapping: West Red Sea Coastal Areas, Saudi Arabia. <i>Sensors</i> , 2019 , 19,	3.8	7

250	Urban Mapping Accuracy Enhancement in High-Rise Built-Up Areas Deployed by 3D-Orthorectification Correction from WorldView-3 and LiDAR Imageries. <i>Remote Sensing</i> , 2019 , 11, 692	5	7
249	Band-to-band registration model for near-equatorial Earth observation satellite images with the use of automatic control point extraction. <i>International Journal of Remote Sensing</i> , 2015 , 36, 2184-2200	3.1	7
248	Geospatial modeling to identify the effects of anthropogenic processes on landscape pattern change and biodiversity. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 1557-1569	1.8	7
247	Remote sensing-based studies coupled with field data reveal urgent solutions to avert the risk of flash floods in the Wadi Qus (east of Jeddah) Kingdom of Saudi Arabia. <i>Natural Hazards</i> , 2015 , 75, 1465-1488	3	7
246	A Review on Assessing and Mapping Soil Erosion Hazard Using Geo-Informatics Technology for Farming System Management. <i>Remote Sensing</i> , 2020 , 12, 4063	5	7
245	Persistent Scatterer Interferometry in the post-event monitoring of the Idukki Landslides. <i>Geocarto International</i> , 2020 , 1-15	2.7	7
244	Long-term runoff dynamics assessment measured through land use/cover (LULC) changes in a tropical complex catchment. <i>Environment Systems and Decisions</i> , 2019 , 39, 16-33	4.1	7
243	Electrofacies in gas shale from well log data via cluster analysis: A case study of the Perth Basin, Western Australia. <i>Open Geosciences</i> , 2014 , 6,	1.3	7
242	Coupling effect of ozone column and atmospheric infrared sounder data reveal evidence of earthquake precursor phenomena of Bam earthquake, Iran. <i>Arabian Journal of Geosciences</i> , 2014 , 7, 1517-1527	1.8	7
241	Finite Element Analysis of Low-Velocity Impact Damage in Composite Laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2000 , 19, 322-339	2.9	7
240	Landslide Detection Using a Saliency Feature Enhancement Technique From LiDAR-Derived DEM and Orthophotos. <i>IEEE Access</i> , 2020 , 8, 121942-121954	3.5	7
239	Earthquake risk assessment in NE India using deep learning and geospatial analysis. <i>Geoscience Frontiers</i> , 2021 , 12, 101110	6	7
238	New hybrid evolutionary algorithm for optimizing index-based groundwater vulnerability assessment method. <i>Journal of Hydrology</i> , 2021 , 598, 126446	6	7
237	Road Extraction from High-Resolution Orthophoto Images Using Convolutional Neural Network 2021 , 49, 569-583		7
236	Energy Consumption and Spatial Assessment of Renewable Energy Penetration and Building Energy Efficiency in Malaysia: A Review. <i>Sustainability</i> , 2021 , 13, 9244	3.6	7
235	Forecasting monthly copper price: A comparative study of various machine learning-based methods. <i>Resources Policy</i> , 2021 , 73, 102189	7.2	7
234	Application of LiDAR in Rockfall Hazard Assessment in Tropical Region 2017 , 323-359		6
233	Extraction and Modeling of Urban Sprawl Development in Karbala City Using VHR Satellite Imagery 2017 , 281-296		6

232	Long-Term Monitoring of Transformation from Pastoral to Agricultural Land Use Using Time-Series Landsat Data in the Feija Basin (Southeast Morocco). <i>Earth Systems and Environment</i> , 2019 , 3, 525-538	7.5	6
231	Geohazards analysis of Pisa tunnel in a fractured incompetent rocks in Zagros Mountains, Iran. <i>Arabian Journal of Geosciences</i> , 2013 , 6, 1101-1112	1.8	6
230	iGeoTrans a novel iOS application for GPS positioning in geosciences. <i>Geocarto International</i> , 2014 , 1-16	2.7	6
229	Prediction of slope failures using bivariate statistical based index of entropy model 2012 ,		6
228	Utilization of remote sensing data and GIS tools for and use sustainability analysis: case study in El-Hammam area, Egypt. <i>Open Geosciences</i> , 2009 , 1,	1.3	6
227	Landslide susceptibility mapping using LiDAR derived factors and frequency ratio model: Ulu Klang area, Malaysia 2012 ,		6
226	Use of multi-temporal remote sensing data and GIS for wetland change monitoring and degradation 2012 ,		6
225	An Alternative Technique for Landslide Inventory Modeling Based on Spatial Pattern Characterization. <i>Lecture Notes in Geoinformation and Cartography</i> , 2014 , 35-48	0.3	6
224	Identification of Potentially Dangerous Glacial Lakes in the Northern Tian Shan 2012 , 369-398		6
223	Parametric Study of Local Site Response for Bedrock Ground Motion to Earthquake in Phuentsholing, Bhutan. <i>Sustainability</i> , 2020 , 12, 5273	3.6	6
222	Wildland Fire Susceptibility Mapping Using Support Vector Regression and Adaptive Neuro-Fuzzy Inference System-Based Whale Optimization Algorithm and Simulated Annealing. <i>ISPRS International Journal of Geo-Information</i> , 2021 , 10, 382	2.9	6
221	Earthquake-Induced Building-Damage Mapping Using Explainable AI (XAI). <i>Sensors</i> , 2021 , 21,	3.8	6
220	A Novel Technique for Modeling Ecosystem Health Condition: A Case Study in Saudi Arabia. <i>Remote Sensing</i> , 2021 , 13, 2632	5	6
219	Prediction of groundwater flowing well zone at An-Najif Province, central Iraq using evidential belief functions model and GIS. <i>Environmental Monitoring and Assessment</i> , 2015 , 188, 549	3.1	6
218	Selection of a Spectral Index for Detection of Orange Spotting Disease in Oil Palm (<i>Elaeis guineensis</i> Jacq.) Using Red Edge and Neural Network Techniques 2019 , 47, 639-646		6
217	Cyclone vulnerability assessment of the western coast of Bangladesh. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 198-221	3.6	6
216	. <i>IEEE Access</i> , 2021 , 9, 82300-82317	3.5	6
215	Quantitative Assessment for Detection and Monitoring of Coastline Dynamics with Temporal RADARSAT Images. <i>Remote Sensing</i> , 2018 , 10, 1705	5	6

214	Robustness analysis of machine learning classifiers in predicting spatial gully erosion susceptibility with altered training samples. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 794-828	3.6	6
213	Spatial assessment of drought vulnerability using fuzzy-analytical hierarchical process: a case study at the Indian state of Odisha. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 123-153	3.6	6
212	Landslide Susceptibility Modeling: Optimization and Factor Effect Analysis 2017 , 115-132		5
211	On projected hydrological scenarios under the influence of bias-corrected climatic variables and LULC. <i>Ecological Indicators</i> , 2019 , 106, 105440	5.8	5
210	An index to describe the earthquake effect on subsequent landslides in Central Taiwan. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 3139-3147	1.8	5
209	Identification of Rocks and Their Quartz Content in Gua Musang Goldfield Using Advanced Spaceborne Thermal Emission and Reflection Radiometer Imagery. <i>Journal of Sensors</i> , 2017 , 2017, 1-8	2	5
208	Fusion of UAV-based DEMs for vertical component accuracy improvement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 147, 106795	4.6	5
207	Spatial probabilistic approach on landslide susceptibility assessment from high resolution sensors derived parameters. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 18, 012057	0.3	5
206	Finite Element Analysis of Low-Velocity Impact Damage in Composite Laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2000 , 19, 322-339	2.9	5
205	A Comparative Study of Convolutional Neural Networks and Conventional Machine Learning Models for Lithological Mapping Using Remote Sensing Data. <i>Remote Sensing</i> , 2022 , 14, 819	5	5
204	Flood risk assessment: role of mitigation capacity in spatial flood risk mapping. <i>Geocarto International</i> , 1-21	2.7	5
203	Spatial data compression and denoising via wavelet transformation. <i>Applied GIS</i> , 2006 , 2, 6.1-6.16		5
202	A COMBINED FUZZY MCDM APPROACH FOR IDENTIFYING THE SUITABLE LANDS FOR URBAN DEVELOPMENT: AN EXAMPLE FROM BANDAR ABBAS, IRAN. <i>Journal of Urban and Environmental Engineering</i> , 11-27	1.5	5
201	A novel integrated approach of ELM and modified equilibrium optimizer for predicting soil compression index of subgrade layer of Dedicated Freight Corridor. <i>Transportation Geotechnics</i> , 2021 , 100678	4	5
200	Identification of the Groundwater Potential Recharge Zones Using MCDM Models: Full Consistency Method (FUCOM), Best Worst Method (BWM) and Analytic Hierarchy Process (AHP). <i>Water Resources Management</i> , 2021 , 35, 4727	3.7	5
199	Developing a prototype landslide early warning system for Darjeeling Himalayas using SIGMA model and real-time field monitoring. <i>Geosciences Journal</i> , 1	1.4	5
198	A Model for Visual Assessment of Fault Plane Solutions and Active Tectonics Analysis Using the Global Centroid Moment Tensor Catalog. <i>Earth Systems and Environment</i> , 2020 , 4, 197-211	7.5	5
197	GIS-based comparison of the GA-LR ensemble method and statistical models at Sefiedrood Basin, Iran. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	5

196	A spatio-temporal agent-based approach for modeling the spread of zoonotic cutaneous leishmaniasis in northeast Iran. <i>Parasites and Vectors</i> , 2020 , 13, 572	4	5
195	Susceptibility to Seismic Amplification and Earthquake Probability Estimation Using Recurrent Neural Network (RNN) Model in Odisha, India. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5355	2.6	5
194	Assessment of groundwater potential in terms of the availability and quality of the resource: a case study from Iraq. <i>Environmental Earth Sciences</i> , 2021 , 80, 1	2.9	5
193	Spatial assessment of land surface temperature and land use/land cover in Langkawi Island. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 37, 012064	0.3	5
192	Modeling Traffic Accident Severity Using Neural Networks and Support Vector Machines. <i>Advances in Science, Technology and Innovation</i> , 2020 , 111-117	0.3	5
191	Estimation of ground subsidence of New Delhi, India using PS-InSAR technique and Multi-sensor Radar data. <i>Advances in Space Research</i> , 2021 , 69, 1863-1863	2.4	5
190	Forecasting landslides using SIGMA model: a case study from Idukki, India. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 540-559	3.6	5
189	Urban tree classification using discrete-return LiDAR and an object-level local binary pattern algorithm. <i>Geocarto International</i> , 2019 , 1-19	2.7	4
188	Field and spaceborne imagery data for evaluation of the paleo-stress regime during formation of the Jurassic dike swarms in the Kalateh Alaeddin Mountain area, Shahrood, north Iran. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	4
187	Prediction of the sliding type and critical factor of safety in homogeneous finite slopes. <i>Applied Water Science</i> , 2019 , 9, 1	5	4
186	Aquifer Potential Assessment in Termites Manifested Locales Using Geo-Electrical and Surface Hydraulic Measurement Parameters. <i>Sensors</i> , 2019 , 19,	3.8	4
185	Regional gold potential mapping in Kelantan (Malaysia) using probabilistic based models and GIS. <i>Open Geosciences</i> , 2015 , 7,	1.3	4
184	Manifestation of SVM-Based Rectified Linear Unit (ReLU) Kernel Function in Landslide Modelling 2018 , 185-195		4
183	An optimized object-based analysis for vegetation mapping using integration of Quickbird and Sentinel-1 data. <i>Arabian Journal of Geosciences</i> , 2018 , 11, 1	1.8	4
182	A Novel Approach to Estimate Diffuse Attenuation Coefficients for QuickBird Satellite Images: A Case Study at Kish Island, the Persian Gulf 2013 , 41, 797-806		4
181	A geospatial model for the optimization grazing management in semi-arid rangeland of Iran. <i>Arabian Journal of Geosciences</i> , 2014 , 7, 1101-1114	1.8	4
180	Application of Airborne LiDAR-Derived Parameters and Probabilistic-Based Frequency Ratio Model in Landslide Susceptibility Mapping. <i>Applied Mechanics and Materials</i> , 2012 , 225, 442-447	0.3	4
179	Fluctuation of Sea Surface Temperature in the Persian Gulf and its impact on coral reef communities around Kish Island 2012 ,		4

178	Landslide susceptibility analysis using an artificial neural network model 2007 ,		4
177	Spatial Prioritization for Wildfire Mitigation by Integrating Heterogeneous Spatial Data: A New Multi-Dimensional Approach for Tropical Rainforests. <i>Remote Sensing</i> , 2022 , 14, 543	5	4
176	Factors determining generalization in deep learning models for scoring COVID-CT images. <i>Mathematical Biosciences and Engineering</i> , 2021 , 18, 9264-9293	2.1	4
175	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	7.5	4
174	Three dimensional terrain data compression using second generation wavelets. <i>WIT Transactions on Information and Communication Technologies</i> , 2007 ,		4
173	Hybrid Taguchi-Objective Function optimization approach for automatic cave bird detection from terrestrial laser scanning intensity image. <i>International Journal of Speleology</i> , 2016 , 45, 289-301	2	4
172	Assessment of impact of mass movements on the upper Tayyah valley's bridge along Shear escarpment highway, Asir region (Saudi Arabia) using remote sensing data and field investigation		4
171	Attention Span Prediction Using Head-Pose Estimation With Deep Neural Networks. <i>IEEE Access</i> , 2021 , 9, 142632-142643	3.5	4
170	Consideration of spatial heterogeneity in landslide susceptibility mapping using geographical random forest model. <i>Geocarto International</i> , 2021 , 1-20	2.7	4
169	Integrating semantic edges and segmentation information for building extraction from aerial images using UNet. <i>Machine Learning With Applications</i> , 2021 , 6, 100194	6.5	4
168	An Automated Approach for Detection of Shallow Landslides from LiDAR Derived DEM Using Geomorphological Indicators in a Tropical Forest 2012 , 1-22		4
167	Impact of Daily Weather on COVID-19 outbreak in India		4
166	Fog-water harvesting Capability Index (FCI) mapping for a semi-humid catchment based on socio-environmental variables and using artificial intelligence algorithms. <i>Science of the Total Environment</i> , 2020 , 708, 135115	10.2	4
165	Landslide susceptibility assessment along the Dubair-Dudishal section of the Karakoram Highway, Northwestern Himalayas, Pakistan. <i>Acta Geodynamica Et Geomaterialia</i> , 2021 , 137-155	1	4
164	The impact of novel coronavirus (2019-CoV) pandemic movement control order (MCO) on dengue cases in Peninsular Malaysia. <i>One Health</i> , 2021 , 12, 100222	7.6	4
163	Identifying hydrothermally altered rocks using ASTER satellite imageries in Eastern Anti-Atlas of Morocco: a case study from Imiter silver mine. <i>International Journal of Image and Data Fusion</i> , 1-25	1.8	4
162	Irrigation Water Allocation at Farm Level Based on Temporal Cultivation-Related Data Using Meta-Heuristic Optimisation Algorithms. <i>Water (Switzerland)</i> , 2019 , 11, 2611	3	4
161	A hybridized model based on neural network and swarm intelligence-grey wolf algorithm for spatial prediction of urban flood-inundation. <i>Journal of Hydrology</i> , 2021 , 603, 126854	6	4

160	Landslide susceptibility mapping using CNN-1D and 2D deep learning algorithms: comparison of their performance at Asir Region, KSA. <i>Bulletin of Engineering Geology and the Environment</i> , 2022 , 81, 1	4	4
159	Spatial Prediction of Landslides Along Jalan Kota in Bandar Seri Begawan (Brunei) Using Airborne LiDAR Data and Support Vector Machine 2017 , 167-178		3
158	Urban Sprawl Assessment 2017 , 61-92		3
157	Landslide Risk Assessment Using Multi-hazard Scenario Produced by Logistic Regression and LiDAR-Based DEM 2017 , 253-275		3
156	Comparative assessment of water surface level using different discharge prediction models. <i>Natural Hazards</i> , 2017 , 87, 1125-1146	3	3
155	Estimation of Peak Ground Acceleration (PGA) for Peninsular Malaysia using geospatial approach. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 37, 012069	0.3	3
154	Applications of Deep Learning in Severity Prediction of Traffic Accidents. <i>Lecture Notes in Civil Engineering</i> , 2019 , 793-808	0.3	3
153	Landslide susceptibility mapping along PLUS expressways in Malaysia using probabilistic based model in GIS. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014 , 20, 012031	0.3	3
152	An effective visualization and comparison of online terrain draped with multi-sensor satellite images. <i>Arabian Journal of Geosciences</i> , 2013 , 6, 4881-4889	1.8	3
151	LIDAR data compression using wavelets 2005 , 5983, 33		3
150	School Location Analysis by Integrating the Accessibility, Natural and Biological Hazards to Support Equal Access to Education. <i>ISPRS International Journal of Geo-Information</i> , 2022 , 11, 12	2.9	3
149	Application of Dirichlet Process and Support Vector Machine Techniques for Mapping Alteration Zones Associated with Porphyry Copper Deposit Using ASTER Remote Sensing Imagery. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1235	2.4	3
148	Multi-type assessment of global droughts and teleconnections. <i>Weather and Climate Extremes</i> , 2021 , 34, 100402	6	3
147	Effect of spatial resolution and data splitting on landslide susceptibility mapping using different machine learning algorithms. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 3381-3408	3.6	3
146	Predicting rock displacement in underground mines using improved machine learning-based models. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 188, 110552	4.6	3
145	A LOW-COST SPATIAL TOOL FOR TRANSFORMING FEATURE POSITIONS OF CAD-BASED TOPOGRAPHIC MAPPING. <i>Geodesy and Cartography</i> , 2019 , 45, 161-168	0.8	3
144	Landsat images and artificial intelligence techniques used to map volcanic ashfall and pyroclastic material following the eruption of Mount Agung, Indonesia. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	3
143	Assessing the Changes in the Moisture/Dryness of Water Cavity Surfaces in Imlili Sebkhha in Southwestern Morocco by Using Machine Learning Classification in Google Earth Engine. <i>Remote Sensing</i> , 2020 , 12, 131	5	3

142	Estimating feature extraction changes of Berkelah Forest, Malaysia from multisensor remote sensing data using and object-based technique. <i>Geocarto International</i> , 2020 , 1-19	2.7	3
141	Predicting Injury Severity of Road Traffic Accidents Using a Hybrid Extreme Gradient Boosting and Deep Neural Network Approach. <i>Advances in Science, Technology and Innovation</i> , 2020 , 119-127	0.3	3
140	Review of Traffic Accident Predictions with Neural Networks. <i>Advances in Science, Technology and Innovation</i> , 2020 , 97-109	0.3	3
139	A hybrid model of environmental impact assessment of PM2.5 concentration using multi-criteria decision-making (MCDM) and geographical information system (GIS) case study. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	3
138	Forecasting Landslides Using Mobility Functions: A Case Study from Idukki District, India 2021 , 51, 684-693		3
137	Spatial Identification of Key Alteration Minerals Using ASTER and Landsat 8 Data in a Heavily Vegetated Tropical Area 2018 , 46, 1061-1073		3
136	Developing vehicular traffic noise prediction model through ensemble machine learning algorithms with GIS. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	3
135	Spatial landslide susceptibility mapping using integrating an adaptive neuro-fuzzy inference system (ANFIS) with two multi-criteria decision-making approaches. <i>Theoretical and Applied Climatology</i> , 2021 , 146, 489-509	3	3
134	Factors Affecting Landslide Susceptibility Mapping: Assessing the Influence of Different Machine Learning Approaches, Sampling Strategies and Data Splitting. <i>Land</i> , 2021 , 10, 989	3.5	3
133	Improving the coastal aquifers vulnerability assessment using SCMAI ensemble of three machine learning approaches. <i>Natural Hazards</i> , 1	3	3
132	Spatial modeling of soil erosion hazards and crop diversity change with rainfall variation in the Central Highlands of Sri Lanka. <i>Science of the Total Environment</i> , 2022 , 806, 150405	10.2	3
131	Debris Flow Susceptibility Assessment Using Airborne Laser Scanning Data 2017 , 279-296		2
130	Ensemble Disagreement Active Learning for Spatial Prediction of Shallow Landslide 2017 , 179-191		2
129	Debris Flow Source Identification in Tropical Dense Forest Using Airborne Laser Scanning Data and Flow-R Model 2017 , 85-112		2
128	Earthquake Social Vulnerability Assessment Using Entropy Method. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 540, 012079	0.3	2
127	Privacy-preserving cooperative localization in vehicular edge computing infrastructure. <i>Concurrency Computation Practice and Experience</i> , 2020 , e5827	1.4	2
126	Functional relation of land surface albedo with climatological variables: a review on remote sensing techniques and recent research developments. <i>Geocarto International</i> , 2014 , 29, 147-163	2.7	2
125	Sediment yield assessment at basin scale using geospatial technique. <i>Arabian Journal of Geosciences</i> , 2014 , 7, 2841-2850	1.8	2

124	Estimation of above ground biomass of oil palm trees by PALSAR 2012 ,		2
123	Identifying Effecting Factors and Landslide Mapping of Cameron Highland Malaysia 2013 ,		2
122	GIS application on spatial landslide analysis using statistical based models 2009 ,		2
121	Utilization of geoinformation tools for the development of forest fire hazard mapping system: example of Pekan fire, Malaysia. <i>Open Geosciences</i> , 2009 , 1,	1.3	2
120	Design of an environmental information system for monitoring water and air quality in urban areas. <i>Disaster Prevention and Management</i> , 2005 , 14, 326-342	1.5	2
119	SC-RoadDeepNet: A New Shape and Connectivity-preserving Road Extraction Deep Learning-based Network from Remote Sensing Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	2
118	Detection of Iris Presentation Attacks Using Feature Fusion of Thepade's Sorted Block Truncation Coding with Gray-Level Co-Occurrence Matrix Features. <i>Sensors</i> , 2021 , 21,	3.8	2
117	Improved Otsu and Kapur approach for white blood cells segmentation based on LebTLBO optimization for the detection of Leukemia.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 1970-2001	2.1	2
116	An integrated user-friendly ArcMAP tool for bivariate statistical modeling in geoscience applications		2
115	Explainable AI in drought forecasting. <i>Machine Learning With Applications</i> , 2021 , 6, 100192	6.5	2
114	Drought Vulnerability Assessment Using Geospatial Techniques in Southern Queensland, Australia. <i>Sensors</i> , 2021 , 21,	3.8	2
113	Spatial earthquake vulnerability assessment by using multi-criteria decision making and probabilistic neural network techniques in Odisha, India. <i>Geocarto International</i> , 1-18	2.7	2
112	Landslides 2018 , 363-396		2
111	Artificial Intelligence and Spatial Modelling in Natural Hazards and Environmental Applications. <i>Advances in Science, Technology and Innovation</i> , 2019 , 11-13	0.3	2
110	Sprawl Versus Compact Development 2017 , 35-58		2
109	Assessing the Relationship Between City Compactness and Residential Land Use Growth 2017 , 139-153		2
108	Urban Compactness Assessment 2017 , 93-137		2
107	In flood susceptibility assessment, is it scientifically correct to represent flood events as a point vector format and create flood inventory map?. <i>Journal of Hydrology</i> , 2020 , 590, 125475	6	2

106	Application of SIGMA model for landslide forecasting in Darjeeling Himalayas		2
105	Systematic investigation into generalization of COVID-19 CT deep learning models with Gabor ensemble for lung involvement scoring		2
104	A hybrid model using data mining and multi-criteria decision-making methods for landslide risk mapping at Golestan Province, Iran. <i>Environmental Earth Sciences</i> , 2021 , 80, 1	2.9	2
103	Weather indicators and improving air quality in association with COVID-19 pandemic in India. <i>Soft Computing</i> , 2021 , 1-22	3.5	2
102	A novel built-up spectral index developed by using multiobjective particle-swarm-optimization technique. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 37, 012006	0.3	2
101	Detection of urban environments using advanced land observing satellite phased array type L-band synthetic aperture radar data through different classification techniques. <i>Journal of Applied Remote Sensing</i> , 2016 , 10, 036029	1.4	2
100	Investigation of the Vegetation Cover and the Vulnerability of the Mashhad Regions to Desertification by Using MODIS Image and EVI 2019 ,		2
99	Laser Scanning Systems in Highway and Safety Assessment. <i>Advances in Science, Technology and Innovation</i> , 2020 ,	0.3	2
98	Road Geometric Modeling Using Laser Scanning Data: A Critical Review. <i>Advances in Science, Technology and Innovation</i> , 2020 , 15-31	0.3	2
97	Optimizing Support Vector Machine and Ensemble Trees Using Taguchi Method for Road Extraction from LiDAR Data. <i>Advances in Science, Technology and Innovation</i> , 2020 , 47-60	0.3	2
96	Barrier Islands Resilience to Extreme Events: Do Earthquake and Tsunami Play a Role?. <i>Water (Switzerland)</i> , 2021 , 13, 178	3	2
95	Performance Evaluation of Long NDVI Timeseries from AVHRR, MODIS and Landsat Sensors over Landslide-Prone Locations in Qinghai-Tibetan Plateau. <i>Remote Sensing</i> , 2021 , 13, 3172	5	2
94	Comparison between Deep Learning and Tree-Based Machine Learning Approaches for Landslide Susceptibility Mapping. <i>Water (Switzerland)</i> , 2021 , 13, 2664	3	2
93	Proposing an ecologically viable and economically sound farming system using a matrix-based geo-informatics approach. <i>Science of the Total Environment</i> , 2021 , 794, 148788	10.2	2
92	Comparative study of convolutional neural network (CNN) and support vector machine (SVM) for flood susceptibility mapping: a case study at Ras Gharib, Red Sea, Egypt. <i>Geocarto International</i> , 1-28	2.7	2
91	Automatic extraction of large-scale aquaculture encroachment areas using Canny Edge Otsu algorithm in Google earth engine [The case study of Kolleru Lake, South India. <i>Geocarto International</i> , 1-17	2.7	2
90	Application of GIS and RS in Urban Growth Analysis and Modeling 2017 , 297-311		1
89	Laser Scanning Systems in Landslide Studies 2017 , 3-19		1

88	Spatial Land Use Change Modeling Techniques 2017 , 171-185		1
87	Spatio-temporal and demographic distribution of lightning related casualties in northeastern part of Bangladesh. <i>International Journal of Disaster Risk Reduction</i> , 2019 , 38, 101197	4.5	1
86	Spatial soil analysis using geostatistical analysis and map Algebra. <i>Arabian Journal of Geosciences</i> , 2015 , 8, 9775-9788	1.8	1
85	A Review of Models Used for Investigating Barriers to Healthcare Access in Australia. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	1
84	Geomorphometric Analysis of Landform Pattern Using Topographic Position and ASTER GDEM. <i>Lecture Notes in Civil Engineering</i> , 2019 , 1139-1160	0.3	1
83	Disaster Management Knowledge Analysis Framework Validated. <i>Information Systems Frontiers</i> ,1	4	1
82	A New Approach to Derive Buildings Footprint from Light Detection and Ranging Data Using Rule-based Learning Techniques and Decision Tree. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 110781	4.6	1
81	Predicting sustainable arsenic mitigation using machine learning techniques.. <i>Ecotoxicology and Environmental Safety</i> , 2022 , 232, 113271	7	1
80	BreaCNet: A high-accuracy breast thermogram classifier based on mobile convolutional neural network.. <i>Mathematical Biosciences and Engineering</i> , 2022 , 19, 1304-1331	2.1	1
79	Earthquake Vulnerability Assessment for Urban Areas Using an ANN and Hybrid SWOT-QSPM Model. <i>Remote Sensing</i> , 2021 , 13, 4519	5	1
78	Modeling of Groundwater Potential Using Cloud Computing Platform: A Case Study from Nineveh Plain, Northern Iraq. <i>Water (Switzerland)</i> , 2021 , 13, 3330	3	1
77	Detection of alteration zones using the Dirichlet process Stick-Breaking model-based clustering algorithm to hyperion data: the case study of Kuh-Panj porphyry copper deposits, Southern Iran. <i>Geocarto International</i> ,1-29	2.7	1
76	Proposing novel ensemble approach of particle swarm optimized and machine learning algorithms for drought vulnerability mapping in Jharkhand, India. <i>Geocarto International</i> ,1-24	2.7	1
75	Orthorectification of WorldView-3 Satellite Image Using Airborne Laser Scanning Data. <i>Journal of Sensors</i> , 2021 , 2021, 1-12	2	1
74	Laser Scanning Technologies in Road Geometry Modeling. <i>Advances in Science, Technology and Innovation</i> , 2020 , 3-13	0.3	1
73	Applications of Deep Learning in Severity Prediction of Traffic Accidents. <i>Advances in Science, Technology and Innovation</i> , 2020 , 129-139	0.3	1
72	Sustainable Urban Development 2017 , 17-34		1
71	Slope Vulnerability and Risk Assessment Using High-Resolution Airborne Laser Scanning Data 2017 , 235-251		1

70	3D Terrain Visualisation for GIS: A Comparison of Different Techniques. <i>Lecture Notes in Geoinformation and Cartography</i> , 2011 , 265-277	0.3	1
69	Identification of Debris Flow Initiation Zones Using Topographic Model and Airborne Laser Scanning Data. <i>Lecture Notes in Civil Engineering</i> , 2019 , 915-940	0.3	1
68	Artificial intelligence techniques in extracting building and tree footprints using aerial imagery and LiDAR data. <i>Geocarto International</i> , 2020 , 1-29	2.7	1
67	Challenges and limitations of earthquake-induced building damage mapping techniques using remote sensing images-A systematic review. <i>Geocarto International</i> ,1-27	2.7	1
66	Impact of evacuation design parameter on users' evacuation time using a multi-agent simulation. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 2355-2369	4.4	1
65	Homomorphic Filtering and Phase-Based Matching for Cross-Spectral Cross-Distance Face Recognition. <i>Sensors</i> , 2021 , 21,	3.8	1
64	Spatial relationship between earthquakes, hot-springs and faults in Odisha, India. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016 , 37, 012070	0.3	1
63	A Model To Detect Forest Change Relating To Mining Using Google Earth Engine Application In Belitung Island, Indonesia 2019 ,		1
62	Road Geometric Modeling Using a Novel Hierarchical Approach. <i>Advances in Science, Technology and Innovation</i> , 2020 , 33-46	0.3	1
61	. <i>IEEE Access</i> , 2021 , 9, 107375-107386	3.5	1
60	Behavior Prediction of Traffic Actors for Intelligent Vehicle Using Artificial Intelligence Techniques: A Review. <i>IEEE Access</i> , 2021 , 1-1	3.5	1
59	Manifestation of lattice topology data model for indoor navigation path based on the 3D building environment. <i>Journal of Computational Design and Engineering</i> ,	4.6	1
58	ADMT: Advanced Driver's Movement Tracking System Using Spatio-Temporal Interest Points and Maneuver Anticipation Using Deep Neural Networks. <i>IEEE Access</i> , 2021 , 9, 99312-99326	3.5	1
57	Extraction and accuracy assessment of DTMs derived from remotely sensed and field surveying approaches in GIS framework. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018 , 169, 012009	0.3	1
56	Improvement of landslide spatial modeling using machine learning methods and two Harris hawks and bat algorithms. <i>Egyptian Journal of Remote Sensing and Space Science</i> , 2021 , 24, 845-845	3.4	1
55	APG: A novel python-based ArcGIS toolbox to generate absence-datasets for geospatial studies. <i>Geoscience Frontiers</i> , 2021 , 12, 101232	6	1
54	Cross Section Intervals of Flood Intervals of Flood Inundation Mapping at Ungauged Area. <i>IOP Conference Series: Earth and Environmental Science</i> ,620, 012003	0.3	1
53	Spatiotemporal evaluation of future groundwater recharge in arid and semi-arid regions under climate change scenarios. <i>Hydrological Sciences Journal</i> ,	3.5	1

52	Sentiment Analysis of Customer Reviews of Food Delivery Services Using Deep Learning and Explainable Artificial Intelligence: Systematic Review. <i>Foods</i> , 2022 , 11, 1500	4.9	1
51	Land Use and Land Cover Mapping Using Rule-Based Classification in Karbala City, Iraq. <i>Lecture Notes in Civil Engineering</i> , 2019 , 1019-1027	0.3	0
50	Predicting soil erosion susceptibility associated with climate change scenarios in the Central Highlands of Sri Lanka.. <i>Journal of Environmental Management</i> , 2022 , 308, 114589	7.9	0
49	A Meta-Learning Approach of Optimisation for Spatial Prediction of Landslides. <i>Remote Sensing</i> , 2021 , 13, 4521	5	0
48	Detection of Iris Presentation Attacks Using Hybridization of Discrete Cosine Transform and Haar Transform With Machine Learning Classifiers and Ensembles. <i>IEEE Access</i> , 2021 , 9, 169231-169249	3.5	0
47	Assessing gully erosion susceptibility using topographic derived attributes, multi-criteria decision-making, and machine learning classifiers. <i>Geomatics, Natural Hazards and Risk</i> , 2021 , 12, 3035-3062	3.6	0
46	Earthquake vulnerability assessment for the Indian subcontinent using the Long Short-Term Memory model (LSTM). <i>International Journal of Disaster Risk Reduction</i> , 2021 , 66, 102642	4.5	0
45	Earthquake Risk Assessment Using Integrated Influence Diagram AHP Approach. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 540, 012078	0.3	0
44	Estimation of fractal dimension and b-value of earthquakes in the Himalayan region. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	0
43	Forecasting Severity of Motorcycle Crashes Using Transfer Learning. <i>Advances in Science, Technology and Innovation</i> , 2020 , 141-157	0.3	0
42	Pixel and Object-Based Machine Learning Classification Schemes for Lithological Mapping Enhancement of Semi-Arid Regions Using Sentinel-2A Imagery: A Case Study of the Southern Moroccan Meseta. <i>IEEE Access</i> , 2021 , 9, 119262-119278	3.5	0
41	Systems and Sensors in Geoscience Applications. <i>Journal of Sensors</i> , 2018 , 2018, 1-3	2	0
40	Traffic Noise Modelling Using Land Use Regression Model Based on Machine Learning, Statistical Regression and GIS. <i>Energies</i> , 2021 , 14, 5095	3.1	0
39	Modelling the Impact of Land Cover Changes on Carbon Storage and Sequestration in the Central Zagros Region, Iran Using Ecosystem Services Approach. <i>Land</i> , 2022 , 11, 423	3.5	0
38	Generalizability assessment of COVID-19 3D CT data for deep learning-based disease detection.. <i>Computers in Biology and Medicine</i> , 2022 , 145, 105464	7	0
37	Solving transparency in drought forecasting using attention models.. <i>Science of the Total Environment</i> , 2022 , 155856	10.2	0
36	Spatio-temporal modelling of dengue fever cases in Saudi Arabia using socio-economic, climatic and environmental factors. <i>Geocarto International</i> , 1-25	2.7	0
35	Assessment of data mining, Multi-Criteria Decision Making and Fuzzy-computing techniques for spatial flood susceptibility mapping: a comparative study. <i>Geocarto International</i> , 1-25	2.7	0

- 34 A Supervised Object-Based Detection of Landslides and Man-Made Slopes Using Airborne Laser Scanning Data **2017**, 23-50
- 33 Effect of Urban Expansion on Land Surface Temperature in Putrajaya City, Malaysia **2017**, 323-331
- 32 IEEE GRSS Malaysia Chapter [Chapters]. *IEEE Geoscience and Remote Sensing Magazine*, **2017**, 5, 100-102 8.9
- 31 Geo-structural stability assessment of surrounding hills of Kuala Lumpur City based on rock surface discontinuity from geological survey data. *Arabian Journal of Geosciences*, **2020**, 13, 1 1.8
- 30 Accuracy assessment of NOGGIN Plus and MALIRAMAC X3M single channel ground penetrating RADAR (GPR) for underground utility mapping. *IOP Conference Series: Earth and Environmental Science*, **2016**, 37, 012025 0.3
- 29 Surface Runoff Estimation and Prediction Regarding LULC and Climate Dynamics Using Coupled LTM, Optimized ARIMA and Distributed-GIS-Based SCS-CN Models at Tropical Region. *Lecture Notes in Civil Engineering*, **2019**, 1103-1126 0.3
- 28 Frontier in Three-Dimensional Cave Reconstruction BD Meshing Versus Textured Rendering. *Lecture Notes in Civil Engineering*, **2019**, 1029-1038 0.3
- 27 Assessing Vertical Accuracy and the Impact of Water Surface Elevation from Different DEM Datasets. *Lecture Notes in Civil Engineering*, **2019**, 849-862 0.3
- 26 Optimized Hierarchical Rule-Based Classification for Differentiating Shallow and Deep-Seated Landslide Using High-Resolution LiDAR Data. *Lecture Notes in Civil Engineering*, **2019**, 825-848 0.3
- 25 The influence of urban development and social mobility on socioeconomic level: The application of GIS on urban ecosystems. *IOP Conference Series: Earth and Environmental Science*, **2014**, 20, 012011 0.3
- 24 On Generalized Localization of Fourier Inversion Associated with an Elliptic Operator for Distributions. *Abstract and Applied Analysis*, **2012**, 2012, 1-13 0.7
- 23 Multiresolution Spatial Data Compression Using Lifting Scheme **2006**, 503-513
- 22 Improved Building Roof Type Classification Using Correlation-Based Feature Selection and Gain Ratio Algorithms. *Lecture Notes in Civil Engineering*, **2019**, 863-873 0.3
- 21 Investigation of Aqueous and Light Non-aqueous Phase Liquid in Fractured Double-Porosity Soil. *Advances in Science, Technology and Innovation*, **2019**, 207-210 0.3
- 20 A Review on Soil Erosion Control Studies. *Advances in Science, Technology and Innovation*, **2019**, 211-213 0.3
- 19 Geospatial Technology Applications in Environmental Disaster Management **2019**, 271-306
- 18 Block-Wise Authentication and Recovery Scheme for Medical Images Focusing on Content Complexity. *Lecture Notes in Computer Science*, **2020**, 86-99 0.9
- 17 Quantifying Spatiotemporal Urban Sprawl Patterns in the City of Tripoli Metropolis (Libya) Over the Past Four Decades Using Satellite Data Sets **2017**, 313-321

- 16 Spatial Urban Modeling and Prediction (Tripoli Metropolis Case Study) **2017**, 187-224
- 15 City Intensification Process Using Brownfields Land Use Change Modeling **2017**, 267-280
- 14 Urban Expansion and Change Detection Analysis **2017**, 155-170
- 13 Introduction to Urban Growth and Expansion **2017**, 3-15
- 12 Compact City Modeling (Case Study of Kajang City, Malaysia) **2017**, 225-265
- 11 Online 3D Terrain Visualization: Implementation and Testing. *Journal of Applied Sciences*, **2011**, 11, 3247-3357
- 10 Seismic vulnerability assessment for buildings typology using DEMATEL approach. *IOP Conference Series: Earth and Environmental Science*, **2020**, 540, 012063 0.3
- 9 Temporal assessment on land use land cover of Somalia after the effect of the civil war using remote sensing. *IOP Conference Series: Earth and Environmental Science*, **2016**, 37, 012063 0.3
- 8 Experimental Investigation of Several Different Types of Soil Erosion Protection Systems. *Advances in Science, Technology and Innovation*, **2019**, 481-483 0.3
- 7 An Integrated Machine Learning Approach for Automatic Highway Extraction from Airborne LiDAR Data and Orthophotos. *Advances in Science, Technology and Innovation*, **2020**, 61-76 0.3
- 6 Effect of Roadside Features on Injury Severity of Traffic Accidents. *Advances in Science, Technology and Innovation*, **2020**, 77-86 0.3
- 5 Novel GIS-Based Model for Automatic Identification of Road Geometry in Vector Data. *Advances in Science, Technology and Innovation*, **2020**, 87-94 0.3
- 4 Land Suitability for Potential Jatropha Plantation in Malaysia. *IOP Conference Series: Earth and Environmental Science*, **2020**, 620, 012002 0.3
- 3 GIS Application in Water Resource Management. *Springer Water*, **2021**, 125-152 0.3
- 2 Developing a volunteered geographic information-based system for rapidly estimating damage from natural disasters. *Arabian Journal of Geosciences*, **2021**, 14, 1 1.8
- 1 Temporal LiDAR scanning in quantifying cumulative rockfall volume and hazard assessment: A case study at southwestern Saudi Arabia. *Egyptian Journal of Remote Sensing and Space Science*, **2022**, 25, 435-443 3.4