Mahesh Pal

List of Publications by Year
in descending order

80 papers	7,415 citations	126907 33 h-index	95266 68 g-index
80 all docs	80 docs citations	80 times ranked	7603 citing authors

#	ARTICLE	IF	CITATIONS
1	Random forest classifier for remote sensing classification. International Journal of Remote Sensing, 2005, 26, 217-222.	2.9	2,210
2	An assessment of the effectiveness of decision tree methods for land cover classification. Remote Sensing of Environment, 2003, 86, 554-565.	11.0	924
3	Support vector machines for classification in remote sensing. International Journal of Remote Sensing, 2005, 26, 1007-1011.	2.9	833
4	Feature Selection for Classification of Hyperspectral Data by SVM. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2297-2307.	6.3	639
5	Assessment of the effectiveness of support vector machines for hyperspectral data. Future Generation Computer Systems, 2004, 20, 1215-1225.	7.5	179
6	Kernel-based extreme learning machine for remote-sensing image classification. Remote Sensing Letters, 2013, 4, 853-862.	1.4	170
7	Support vector machines-based modelling of seismic liquefaction potential. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 983-996.	3.3	137
8	Comparison of supervised and unsupervised approaches for mudstone lithofacies classification: Case studies from the Bakken and Mahantango-Marcellus Shale, USA. Journal of Natural Gas Science and Engineering, 2016, 33, 1119-1133.	4.4	131
9	M5 model tree based modelling of reference evapotranspiration. Hydrological Processes, 2009, 23, 1437-1443.	2.6	129
10	Modelling pile capacity using Gaussian process regression. Computers and Geotechnics, 2010, 37, 942-947.	4.7	105
11	Evaluation of SVM, RVM and SMLR for Accurate Image Classification With Limited Ground Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1344-1355.	4.9	100
12	Some issues in the classification of DAIS hyperspectral data. International Journal of Remote Sensing, 2006, 27, 2895-2916.	2.9	97
13	Support vector machine–based feature selection for land cover classification: a case study with DAIS hyperspectral data. International Journal of Remote Sensing, 2006, 27, 2877-2894.	2.9	86
14	Estimation of Mean Annual Flood in Indian Catchments Using Backpropagation Neural Network and M5 Model Tree. Water Resources Management, 2010, 24, 2007-2019.	3.9	76
15	M5 model tree application in daily river flow forecasting in Sohu Stream, Turkey. Water Resources, 2013, 40, 233-242.	0.9	74
16	Performance evaluation of artificial neural network approaches in forecasting reservoir inflow. Applied Mathematical Modelling, 2012, 36, 2649-2657.	4.2	71
17	Extreme‐learning‐machine‐based land cover classification. International Journal of Remote Sensing, 2009, 30, 3835-3841.	2.9	70
18	Support vector regression based modeling of pier scour using field data. Engineering Applications of Artificial Intelligence, 2011, 24, 911-916.	8.1	69

#	Article	IF	Citations
19	Modeling Pile Capacity Using Support Vector Machines and Generalized Regression Neural Network. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 1021-1024.	3.0	68
20	Support vector regression based shear strength modelling of deep beams. Computers and Structures, 2011, 89, 1430-1439.	4.4	67
21	The Sensitivity of Mapping Methods to Reference Data Quality: Training Supervised Image Classifications with Imperfect Reference Data. ISPRS International Journal of Geo-Information, 2016, 5, 199.	2.9	66
22	Application of support vector machines in scour prediction on grade-control structures. Engineering Applications of Artificial Intelligence, 2009, 22, 216-223.	8.1	63
23	Ensemble of support vector machines for land cover classification. International Journal of Remote Sensing, 2008, 29, 3043-3049.	2.9	62
24	Ground water quality classification by decision tree method in Ardebil region, Iran. Arabian Journal of Geosciences, 2014, 7, 4767-4777.	1.3	58
25	Generating, Evaluating, and Visualizing Construction Schedule with Geographic Information Systems. Journal of Computing in Civil Engineering, 2008, 22, 233-242.	4.7	48
26	Multinomial logistic regression-based feature selection for hyperspectral data. International Journal of Applied Earth Observation and Geoinformation, 2012, 14, 214-220.	2.8	47
27	M5 model tree for pier scour prediction using field dataset. KSCE Journal of Civil Engineering, 2012, 16, 1079-1084.	1.9	47
28	M5 model tree based predictive modeling of road accidents on non-urban sections of highways in India. Accident Analysis and Prevention, 2016, 96, 108-117.	5.7	44
29	Prediction of the end-depth ratio and discharge in semi-circular and circular shaped channels using support vector machines. Flow Measurement and Instrumentation, 2006, 17, 49-57.	2.0	42
30	Combining RapidEye Satellite Imagery and Lidar for Mapping of Mining and Mine Reclamation. Photogrammetric Engineering and Remote Sensing, 2014, 80, 179-189.	0.6	41
31	Deep neural network-based predictive modeling of road accidents. Neural Computing and Applications, 2020, 32, 12417-12426.	5.6	38
32	M5 model tree for land cover classification. International Journal of Remote Sensing, 2006, 27, 825-831.	2.9	37
33	Potential of geographic information systems in building cost estimation and visualization. Automation in Construction, 2007, 16, 311-322.	9.8	37
34	Prediction of groundwater quality indices using machine learning algorithms. Water Practice and Technology, 2022, 17, 336-351.	2.0	37
35	Estimation of Discharge and End Depth in Trapezoidal Channel by Support Vector Machines. Water Resources Management, 2007, 21, 1763-1780.	3.9	36
36	Parametric study of convolutional neural network based remote sensing image classification. International Journal of Remote Sensing, 2021, 42, 2663-2685.	2.9	34

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37	Estimation of Removal Efficiency for Settling Basins Using Neural Networks and Support Vector Machines. Journal of Hydrologic Engineering - ASCE, 2008, 13, 146-155.	1.9	33
38	KERNEL METHODS IN REMOTE SENSING: A REVIEW. ISH Journal of Hydraulic Engineering, 2009, 15, 194-215.	2.1	31
39	Margin-based feature selection for hyperspectral data. International Journal of Applied Earth Observation and Geoinformation, 2009, 11, 212-220.	2.8	31
40	Comparative analysis of support vector machine and artificial neural network models for soil cation exchange capacity prediction. International Journal of Environmental Science and Technology, 2016, 13, 87-96.	3.5	29
41	CNN-based fusion and classification of SAR and Optical data. International Journal of Remote Sensing, 2020, 41, 8839-8861.	2.9	29
42	Construction schedule review in GIS with a navigable 3D animation of project activities. International Journal of Project Management, 2009, 27, 532-542.	5.6	24
43	Extreme Learning Machine Based Modeling of Resilient Modulus of Subgrade Soils. Geotechnical and Geological Engineering, 2014, 32, 287-296.	1.7	24
44	M5 model trees and neural network based modelling of ET_{0} in Ankara, Turkey. Turkish Journal of Engineering and Environmental Sciences, 2013, 37, 211-220.	0.1	21
45	Pier scour modelling using random forest regression. ISH Journal of Hydraulic Engineering, 2013, 19, 69-75.	2.1	16
46	Hybrid genetic algorithm for feature selection with hyperspectral data. Remote Sensing Letters, 2013, 4, 619-628.	1.4	16
47	Modeling oblique load carrying capacity of batter pile groups using neural network, random forest regression and M5 model tree. Frontiers of Structural and Civil Engineering, 2019, 13, 674-685.	2.9	16
48	Artificial immune–based supervised classifier for land–cover classification. International Journal of Remote Sensing, 2008, 29, 2273-2291.	2.9	15
49	Classification of Hydraulic Jump in Rough Beds. Water (Switzerland), 2020, 12, 2249.	2.7	15
50	Kernel methods for pier scour modeling using field data. Journal of Hydroinformatics, 2014, 16, 784-796.	2.4	14
51	Extended GIS for construction engineering by adding direct sunlight visualisations on buildings. Construction Innovation, 2009, 9, 406-419.	2.7	11
52	Fusion and classification of multi-temporal SAR and optical imagery using convolutional neural network. International Journal of Image and Data Fusion, 2022, 13, 113-135.	1.7	11
53	Advanced algorithms for land use and cover classification. , 2012, , 69-90.		10
54	*K*-nearest neighbour-based feature selection using hyperspectral data. Remote Sensing Letters, 2021, 12, 132-141.	1.4	10

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55	Construction Projects Scheduling Using GIS Tools. International Journal of Construction Management, 2011, 11, 1-18.	3.2	7
56	Optimization of neural network parameters using Grey–Taguchi methodology for manufacturing process applications. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 2651-2664.	2.1	7
57	Deep neural network based pier scour modeling. ISH Journal of Hydraulic Engineering, 2022, 28, 80-85.	2.1	7
58	Modelling of Tensile Strength Ratio of Bituminous Concrete Mixes Using Support Vector Machines and M5 Model Tree. International Journal of Pavement Research and Technology, 2022, 15, 86-97.	2.6	7
59	Comparison of Various Indices to Differentiate Built-up and Bare Soil with Sentinel 2 Data. Lecture Notes in Civil Engineering, 2020, , 501-509.	0.4	7
60	STAGE-DISCHARGE MODELING USING SUPPORT VECTOR MACHINES. International Journal of Engineering, Transactions B: Applications, 2011, 25, 1-9.	0.7	7
61	Ultimate Capacity of Battered Pile Groups Subjected to Oblique Pullout Loads in Sand. International Journal of Geosynthetics and Ground Engineering, 2017, 3, 1.	2.0	6
62	Modified nearest neighbour classifier for hyperspectral data classification. International Journal of Remote Sensing, 2011, 32, 9207-9217.	2.9	5
63	Support vector machine model for prediction of accidents on non-urban sections of highways. Proceedings of the Institution of Civil Engineers: Transport, 2018, 171, 253-263.	0.6	5
64	Efficient optimization of process parameters in 2.5 D end milling using neural network and genetic algorithm. International Journal of Systems Assurance Engineering and Management, 2018, 9, 1198-1205.	2.4	5
65	Modeling of Oblique Load Test on Batter Pile Group Based on Support Vector Machines and Gaussian Regression. Geotechnical and Geological Engineering, 2018, 36, 1597-1607.	1.7	4
66	Quantity Takeoffs and Detailed Buildings Cost Estimation Using Geographic Information Systems. International Journal of Information Technology Project Management, 2013, 4, 66-80.	0.5	4
67	Evaluating the potential of pyramid-based fusion coupled with convolutional neural network for satellite image classification. Arabian Journal of Geosciences, 2022, 15, 1.	1.3	4
68	MODELUNG OF PAN EVAPORATION USING SUPPORT VECTOR MACHINES ALGORITHM. ISH Journal of Hydraulic Engineering, 2008, 14, 104-116.	2.1	3
69	Application of data mining on evaluation of energy dissipation over low gabion-stepped weir. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 0, , .	2.1	3
70	Error-corrected output coding-based class decomposition approach for remote sensing classification. International Journal of Remote Sensing, 2006, 27, 2863-2876.	2.9	2
71	Class Decomposition Approaches for Land Cover Classification: A Comparative Study. , 2006, , .		1
72	Prediction of lateral and oblique load for batter pile group using GRNN, NN, and ANFIS. , 2021, , 37-60.		1

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73	Patch Based Land Cover Classification: A Comparison of Deep Learning, SVM and NN Classifiers. , 2020, , .		1
74	CNN-Based Fusion and Classification of Multi-Temporal Sentinel-1 & -2 Satellite Data. , 2021, , .		1
75	Development of Stage-Discharge Relation Using Support Vector Machines. , 2006, , 1.		0
76	Discussion of "Construction Scheduling and Progress Control Using Geographical Information Systems" by Stephen E. Poku and David Arditi. Journal of Computing in Civil Engineering, 2007, 21, 478-478.	4.7	0
77	Discussion of "Application of Support Vector Machines in Assessing Conceptual Cost Estimates" by Sung-Hoon An, U-Yeol Park, Kyung-In Kang, Moon-Young Cho, and Hun-Hee Cho. Journal of Computing in Civil Engineering, 2008, 22, 332-333.	4.7	0
78	Multiple plunging jet aeration system and parameter modelling by neural network and support vector machines. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	0
79	Image Processing and Analysis Methods. , 2019, , 631-868.		0
80	Hyperspectral image classifications and feature selection. , 2020, , 81-91.		0