

# Mahesh Pal

## List of Publications by Citations

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

75  
papers

5,326  
citations

30  
h-index

72  
g-index

80  
ext. papers

6,364  
ext. citations

3.3  
avg, IF

6.46  
L-index

#	Paper	IF	Citations
75	Random forest classifier for remote sensing classification. <i>International Journal of Remote Sensing</i> , <b>2005</b> , 26, 217-222	3.1	1425
74	An assessment of the effectiveness of decision tree methods for land cover classification. <i>Remote Sensing of Environment</i> , <b>2003</b> , 86, 554-565	13.2	696
73	Support vector machines for classification in remote sensing. <i>International Journal of Remote Sensing</i> , <b>2005</b> , 26, 1007-1011	3.1	629
72	Feature Selection for Classification of Hyperspectral Data by SVM. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2010</b> , 48, 2297-2307	8.1	491
71	Assessment of the effectiveness of support vector machines for hyperspectral data. <i>Future Generation Computer Systems</i> , <b>2004</b> , 20, 1215-1225	7.5	153
70	Kernel-based extreme learning machine for remote-sensing image classification. <i>Remote Sensing Letters</i> , <b>2013</b> , 4, 853-862	2.3	144
69	Support vector machines-based modelling of seismic liquefaction potential. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2006</b> , 30, 983-996	4	105
68	M5 model tree based modelling of reference evapotranspiration. <i>Hydrological Processes</i> , <b>2009</b> , 23, 1437-1443	3.443	103
67	Some issues in the classification of DAIS hyperspectral data. <i>International Journal of Remote Sensing</i> , <b>2006</b> , 27, 2895-2916	3.1	80
66	Evaluation of SVM, RVM and SMLR for Accurate Image Classification With Limited Ground Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2012</b> , 5, 1344-1355	4.7	76
65	Modelling pile capacity using Gaussian process regression. <i>Computers and Geotechnics</i> , <b>2010</b> , 37, 942-947	4.4	73
64	Support vector machine-based feature selection for land cover classification: a case study with DAIS hyperspectral data. <i>International Journal of Remote Sensing</i> , <b>2006</b> , 27, 2877-2894	3.1	70
63	Comparison of supervised and unsupervised approaches for mudstone lithofacies classification: Case studies from the Bakken and Mahantango-Marcellus Shale, USA. <i>Journal of Natural Gas Science and Engineering</i> , <b>2016</b> , 33, 1119-1133	4.6	67
62	M5 model tree application in daily river flow forecasting in Sohu Stream, Turkey. <i>Water Resources</i> , <b>2013</b> , 40, 233-242	0.9	64
61	Estimation of Mean Annual Flood in Indian Catchments Using Backpropagation Neural Network and M5 Model Tree. <i>Water Resources Management</i> , <b>2010</b> , 24, 2007-2019	3.7	63
60	Extreme-learning-machine-based land cover classification. <i>International Journal of Remote Sensing</i> , <b>2009</b> , 30, 3835-3841	3.1	61
59	Performance evaluation of artificial neural network approaches in forecasting reservoir inflow. <i>Applied Mathematical Modelling</i> , <b>2012</b> , 36, 2649-2657	4.5	59

58	Support vector regression based modeling of pier scour using field data. <i>Engineering Applications of Artificial Intelligence</i> , <b>2011</b> , 24, 911-916	7.2	59
57	Modeling Pile Capacity Using Support Vector Machines and Generalized Regression Neural Network. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2008</b> , 134, 1021-1024	3.4	54
56	Application of support vector machines in scour prediction on grade-control structures. <i>Engineering Applications of Artificial Intelligence</i> , <b>2009</b> , 22, 216-223	7.2	53
55	Support vector regression based shear strength modelling of deep beams. <i>Computers and Structures</i> , <b>2011</b> , 89, 1430-1439	4.5	52
54	The Sensitivity of Mapping Methods to Reference Data Quality: Training Supervised Image Classifications with Imperfect Reference Data. <i>ISPRS International Journal of Geo-Information</i> , <b>2016</b> , 5, 199	2.9	43
53	Ensemble of support vector machines for land cover classification. <i>International Journal of Remote Sensing</i> , <b>2008</b> , 29, 3043-3049	3.1	42
52	Generating, Evaluating, and Visualizing Construction Schedule with Geographic Information Systems. <i>Journal of Computing in Civil Engineering</i> , <b>2008</b> , 22, 233-242	5	41
51	Ground water quality classification by decision tree method in Ardebil region, Iran. <i>Arabian Journal of Geosciences</i> , <b>2014</b> , 7, 4767-4777	1.8	40
50	Multinomial logistic regression-based feature selection for hyperspectral data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2012</b> , 14, 214-220	7.3	38
49	M5 model tree for pier scour prediction using field dataset. <i>KSCE Journal of Civil Engineering</i> , <b>2012</b> , 16, 1079-1084	1.9	37
48	Prediction of the end-depth ratio and discharge in semi-circular and circular shaped channels using support vector machines. <i>Flow Measurement and Instrumentation</i> , <b>2006</b> , 17, 49-57	2.2	34
47	Combining RapidEye Satellite Imagery and Lidar for Mapping of Mining and Mine Reclamation. <i>Photogrammetric Engineering and Remote Sensing</i> , <b>2014</b> , 80, 179-189	1.6	33
46	M5 model tree based predictive modeling of road accidents on non-urban sections of highways in India. <i>Accident Analysis and Prevention</i> , <b>2016</b> , 96, 108-117	6.1	30
45	Potential of geographic information systems in building cost estimation and visualization. <i>Automation in Construction</i> , <b>2007</b> , 16, 311-322	9.6	29
44	Estimation of Removal Efficiency for Settling Basins Using Neural Networks and Support Vector Machines. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2008</b> , 13, 146-155	1.8	28
43	Estimation of Discharge and End Depth in Trapezoidal Channel by Support Vector Machines. <i>Water Resources Management</i> , <b>2007</b> , 21, 1763-1780	3.7	28
42	M5 model tree for land cover classification. <i>International Journal of Remote Sensing</i> , <b>2006</b> , 27, 825-831	3.1	25
41	Comparative analysis of support vector machine and artificial neural network models for soil cation exchange capacity prediction. <i>International Journal of Environmental Science and Technology</i> , <b>2016</b> , 13, 87-96	3.3	23

40	Margin-based feature selection for hyperspectral data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2009</b> , 11, 212-220	7.3	23
39	KERNEL METHODS IN REMOTE SENSING: A REVIEW. <i>ISH Journal of Hydraulic Engineering</i> , <b>2009</b> , 15, 194-215		21
38	Construction schedule review in GIS with a navigable 3D animation of project activities. <i>International Journal of Project Management</i> , <b>2009</b> , 27, 532-542	7.6	21
37	Deep neural network-based predictive modeling of road accidents. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 12417-12426	4.8	18
36	M5 model trees and neural network based modelling of ET <sub>s</sub> in Ankara, Turkey. <i>Turkish Journal of Engineering and Environmental Sciences</i> , <b>2013</b> , 37, 211-220		17
35	Parametric study of convolutional neural network based remote sensing image classification. <i>International Journal of Remote Sensing</i> , <b>2021</b> , 42, 2663-2685	3.1	16
34	Hybrid genetic algorithm for feature selection with hyperspectral data. <i>Remote Sensing Letters</i> , <b>2013</b> , 4, 619-628	2.3	15
33	Artificial immune-based supervised classifier for land-cover classification. <i>International Journal of Remote Sensing</i> , <b>2008</b> , 29, 2273-2291	3.1	14
32	CNN-based fusion and classification of SAR and Optical data. <i>International Journal of Remote Sensing</i> , <b>2020</b> , 41, 8839-8861	3.1	14
31	Kernel methods for pier scour modeling using field data. <i>Journal of Hydroinformatics</i> , <b>2014</b> , 16, 784-796	2.6	13
30	Extreme Learning Machine Based Modeling of Resilient Modulus of Subgrade Soils. <i>Geotechnical and Geological Engineering</i> , <b>2014</b> , 32, 287-296	1.5	11
29	Pier scour modelling using random forest regression. <i>ISH Journal of Hydraulic Engineering</i> , <b>2013</b> , 19, 69-75		10
28	Extended GIS for construction engineering by adding direct sunlight visualisations on buildings. <i>Construction Innovation</i> , <b>2009</b> , 9, 406-419	4.1	9
27	Modeling oblique load carrying capacity of batter pile groups using neural network, random forest regression and M5 model tree. <i>Frontiers of Structural and Civil Engineering</i> , <b>2019</b> , 13, 674-685	2.5	9
26	Optimization of neural network parameters using Grey Taguchi methodology for manufacturing process applications. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2015</b> , 229, 2651-2664	1.3	7
25	Classification of Hydraulic Jump in Rough Beds. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2249	3	7
24	Advanced algorithms for land use and cover classification <b>2012</b> , 69-90		6
23	Ultimate Capacity of Battered Pile Groups Subjected to Oblique Pullout Loads in Sand. <i>International Journal of Geosynthetics and Ground Engineering</i> , <b>2017</b> , 3, 1	2	5

22	STAGE-DISCHARGE MODELING USING SUPPORT VECTOR MACHINES. <i>International Journal of Engineering, Transactions B: Applications</i> , <b>2011</b> , 25, 1-9	1.9	5
21	Deep neural network based pier scour modeling. <i>ISH Journal of Hydraulic Engineering</i> , <b>2019</b> , 1-6	1.5	4
20	Construction Projects Scheduling Using GIS Tools. <i>International Journal of Construction Management</i> , <b>2011</b> , 11, 1-18	1.9	4
19	Modified nearest neighbour classifier for hyperspectral data classification. <i>International Journal of Remote Sensing</i> , <b>2011</b> , 32, 9207-9217	3.1	4
18	K-nearest neighbour-based feature selection using hyperspectral data. <i>Remote Sensing Letters</i> , <b>2021</b> , 12, 132-141	2.3	4
17	Comparison of Various Indices to Differentiate Built-up and Bare Soil with Sentinel 2 Data. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 501-509	0.3	3
16	Modeling of Oblique Load Test on Batter Pile Group Based on Support Vector Machines and Gaussian Regression. <i>Geotechnical and Geological Engineering</i> , <b>2018</b> , 36, 1597-1607	1.5	2
15	Support vector machine model for prediction of accidents on non-urban sections of highways. <i>Proceedings of the Institution of Civil Engineers: Transport</i> , <b>2018</b> , 171, 253-263	0.5	2
14	MODELUNG OF PAN EVAPORATION USING SUPPORT VECTOR MACHINES ALGORITHM. <i>ISH Journal of Hydraulic Engineering</i> , <b>2008</b> , 14, 104-116	1.5	2
13	Error-corrected output coding-based class decomposition approach for remote sensing classification. <i>International Journal of Remote Sensing</i> , <b>2006</b> , 27, 2863-2876	3.1	2
12	Quantity Takeoffs and Detailed Buildings Cost Estimation Using Geographic Information Systems. <i>International Journal of Information Technology Project Management</i> , <b>2013</b> , 4, 66-80	0.8	2
11	Fusion and classification of multi-temporal SAR and optical imagery using convolutional neural network. <i>International Journal of Image and Data Fusion</i> , 1-23	1.8	2
10	Efficient optimization of process parameters in 2.5 D end milling using neural network and genetic algorithm. <i>International Journal of Systems Assurance Engineering and Management</i> , <b>2018</b> , 9, 1198-1205	1.3	1
9	Class Decomposition Approaches for Land Cover Classification: A Comparative Study <b>2006</b> ,		1
8	Evaluating the potential of pyramid-based fusion coupled with convolutional neural network for satellite image classification. <i>Arabian Journal of Geosciences</i> , <b>2022</b> , 15, 1	1.8	1
7	Modelling of Tensile Strength Ratio of Bituminous Concrete Mixes Using Support Vector Machines and M5 Model Tree. <i>International Journal of Pavement Research and Technology</i> , 1	2	0
6	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. <i>Journal of Computing in Civil Engineering</i> , <b>2008</b> , 22, 332-333	5	
5	Development of Stage-Discharge Relation Using Support Vector Machines <b>2006</b> , 1		

- 4 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<sup>5</sup>
- 3 Hyperspectral image classifications and feature selection **2020**, 81-91
- 2 Image Processing and Analysis Methods **2019**, 631-868
- 1 Prediction of lateral and oblique load for batter pile group using GRNN, NN, and ANFIS **2021**, 37-60