Prashanth Reddy Marpu

List of Publications by Year
in descending order

91 papers	3,316 citations	218662 26 h-index	149686 56 g-index
91 all docs	91 docs citations	91 times ranked	3652 citing authors

#	Article	IF	Citations
1	Hyperspectral imaging based kinetic approach to assess quality deterioration in fresh mushrooms (Agaricus bisporus) during postharvest storage. Food Control, 2022, 131, 108298.	5.5	11
2	Segmentation based traversing-agent approach for road width extraction from satellite images using volunteered geographic information. Applied Computing and Informatics, 2021, 17, 131-152.	5.9	11
3	Diversity-driven ANN-based ensemble framework for seasonal low-flow analysis at ungauged sites. Advances in Water Resources, 2021, 147, 103814.	3.8	11
4	Effect of finite element model details in structural analysis of CubeSats. CEAS Space Journal, 2021, 13, 231-246.	2.3	2
5	A Highly Modular Software Framework for Reducing Software Development Time of Nanosatellites. IEEE Access, 2021, 9, 107791-107803.	4.2	5
6	On the Value of River Network Information in Regional Frequency Analysis. Journal of Hydrometeorology, 2021, 22, 201-216.	1.9	6
7	A Review of Requirements for Gamma Radiation Detection in Space Using CubeSats. Applied Sciences (Switzerland), 2021, 11, 2659.	2.5	10
8	Automatic Generation of Seamless Mosaics Using Invariant Features. Remote Sensing, 2021, 13, 3094.	4.0	5
9	A Complete Mission Concept Design and Analysis of the Student-Led CubeSat Project: Light-1. Aerospace, 2021, 8, 247.	2.2	8
10	Extraction of urban multi-class from high-resolution images using pyramid generative adversarial networks. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102379.	2.8	2
11	Generation of Detailed Classification Maps using High-Resolution Satellite Images At Country-wide Scale. , 2021, , .		0
12	River basin salinization as a form of aridity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17635-17642.	7.1	33
13	Inferring Species Diversity and Variability over Climatic Gradient with Spectral Diversity Metrics. Remote Sensing, 2020, 12, 2130.	4.0	7
14	Coral Reefs of Abu Dhabi, United Arab Emirates: Analysis of Management Approaches in Light of International Best Practices and a Changing Climate. Frontiers in Marine Science, 2020, 7, .	2.5	6
15	Towards Generating the Habitat Maps for UAE using a Transfer Learning Approach. , 2020, , .		0
16	Development of a Metal-to-Metal Mid-Field Shock Test Procedure for Nanosatellites. IEEE Journal on Miniaturization for Air and Space Systems, 2020, 1, 103-109.	2.7	1
17	A Study of Local Climate Zones in Abu Dhabi with Urban Weather Stations and Numerical Simulations. Sustainability, 2020, 12, 156.	3.2	14
18	Studying coral reef patterns in UAE waters using panel data analysis and multinomial logit and probit models. Ecological Indicators, 2020, 112, 106050.	6.3	2

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19	Characterization of Local Climate Zones Using ENVI-met and Site Data in the City of Al-Ain, UAE. International Journal of Sustainable Development and Planning, 2020, 15, 751-760.	0.7	6
20	Mission Operations and Science Plan for the MeznSat CubeSat Mission for Greenhouse Gases Monitoring. , 2020, , .		1
21	Validation of UWG and ENVI-Met Models in an Abu Dhabi District, Based on Site Measurements. Sustainability, 2019, 11, 4378.	3.2	44
22	Towards Automatic Extraction and Updating of VGI-Based Road Networks Using Deep Learning. Remote Sensing, 2019, 11, 1012.	4.0	18
23	MeznSatâ€"A 3U CubeSat for Monitoring Greenhouse Gases Using Short Wave Infra-Red Spectrometry: Mission Concept and Analysis. Aerospace, 2019, 6, 118.	2.2	17
24	Change Detection and Transfer Learning Approach for Updating the Habitat Maps in UAE. , 2019, , .		3
25	Change detection using remote sensing in a reef environment of the UAE during the extreme event of El NiÃ±o 2015â€"2016. International Journal of Remote Sensing, 2018, 39, 6358-6382.	2.9	9
26	Estimation of the traffic related anthropogenic heat release using BTEX measurements â€" A case study in Abu Dhabi. Urban Climate, 2018, 24, 311-325.	5.7	19
27	Continuous Mapping and Monitoring Framework for Habitat Analysis in the United Arab Emirates. Proceedings (mdpi), 2018, 2, .	0.2	4
28	Ground subsidence monitoring with SAR interferometry techniques in the rural area of Al Wagan, UAE. Remote Sensing of Environment, 2018, 216, 276-288.	11.0	32
29	Hierarchical graph-based segmentation for extracting road networks from high-resolution satellite images. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 126, 245-260.	11.1	113
30	Simultaneous extraction of roads and buildings in remote sensing imagery with convolutional neural networks. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 130, 139-149.	11.1	304
31	Impact of river network type on the time of concentration. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	19
32	The IEEE United Arab Emirates Section Chapter Is Gearing Up to Support the National Space Program [Chapters]. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 74-75.	9.6	0
33	Estimation of Urban Air Temperature From a Rural Station Using Remotely Sensed Thermal Infrared Data. Energy Procedia, 2017, 143, 519-525.	1.8	7
34	Water Budget Analysis in Arid Regions, Application to the United Arab Emirates. Water (Switzerland), 2016, 8, 415.	2.7	22
35	An Automatic Cognitive Graph-Based Segmentation for Detection of Blood Vessels in Retinal Images. Mathematical Problems in Engineering, 2016, 2016, 1-15.	1.1	12
36	In-situ sensor network for microclimate and urban energy modeling and validation. , 2016, , .		1

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37	Unsupervised change detection analysis to multi-channel scenario based on morphological contextual analysis. , 2016, , .		7
38	Experimental investigation and artificial neural networks ANNs modeling of electrically-enhanced membrane bioreactor for wastewater treatment. Journal of Water Process Engineering, 2016, 11, 88-97.	5.6	95
39	Corals & benthic habitat mapping using DubaiSat-2: a spectral-spatial approach applied to Dalma Island, UAE (Arabian Gulf). Remote Sensing Letters, 2016, 7, 781-789.	1.4	4
40	The Generalized Additive Model for the Assessment of the Direct, Diffuse, and Global Solar Irradiances Using SEVIRI Images, With Application to the UAE. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1553-1566.	4.9	19
41	Object-based fusion of hyperspectral and LiDAR data for classification of urban areas. , 2015, , .		4
42	Urban climate modifications in hot desert cities: The role of land cover, local climate, and seasonality. Geophysical Research Letters, 2015, 42, 9980-9989.	4.0	61
43	Long‐term projections of temperature, precipitation and soil moisture using non‐stationary oscillation processes over the <scp>UAE</scp> region. International Journal of Climatology, 2015, 35, 4606-4618.	3.5	37
44	Improved classification of drainage networks using junction angles and secondary tributary lengths. Geomorphology, 2015, 239, 41-47.	2.6	39
45	Design of sensor network for urban micro-climate monitoring. , 2015, , .		8
46	Probability distributions of wind speed in the UAE. Energy Conversion and Management, 2015, 93, 414-434.	9.2	168
47	Regional frequency analysis at ungauged sites using a two-stage resampling generalized ensemble framework. Advances in Water Resources, 2015, 84, 103-111.	3.8	25
48	Parallel Implementation of Polarimetric Synthetic Aperture Radar Data Processing for Unsupervised Classification Using the Complex Wishart Classifier. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5376-5387.	4.9	4
49	Investigation of aerosol optical, physical, and radiative characteristics of a severe dust storm observed over UAE. Remote Sensing of Environment, 2015, 169, 404-417.	11.0	32
50	Multi-sensor based approach for detection of oil pollution in the Arabian Gulf and the Sea of Oman. , 2015, , .		2
51	Mapping of the Solar Irradiance in the UAE Using Advanced Artificial Neural Network Ensemble. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3668-3680.	4.9	30
52	Object based image analysis for the classification of the growth stages of Avocado crop, in Michoacán State, Mexico. , 2014, , .		1
53	Validation of Thermal Models for Photovoltaic Cells under Hot Desert Climates. Energy Procedia, 2014, 57, 136-143.	1.8	14
54	Hyperspectral Data Dimensionality Reduction and the Impact of Multi-seasonal Hyperion EO-1 Imagery on Classification Accuracies of Tropical Forest Species. Photogrammetric Engineering and Remote Sensing, 2014, 80, 773-784.	0.6	14

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55	Evolution of the rainfall regime in the United Arab Emirates. Journal of Hydrology, 2014, 514, 258-270.	5.4	101
56	Spectralâ€"Spatial Classification of Multispectral Images Using Kernel Feature Space Representation. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 288-292.	3.1	65
57	Toward a Near Real-Time Product of Air Temperature Maps from Satellite Data and <i>In Situ</i> Measurements in Arid Environments. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3093-3104.	4.9	19
58	Capital cost estimation of RO plants: GCC countries versus southern Europe. Desalination, 2014, 347, 103-111.	8.2	48
59	Efficient parallel implementation of polarimetric synthetic aperture radar data processing. Proceedings of SPIE, 2014, , .	0.8	0
60	A Novel Technique for Optimal Feature Selection in Attribute Profiles Based on Genetic Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3514-3528.	6.3	105
61	Generalized Composite Kernel Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4816-4829.	6.3	439
62	Artificial neural network based model for retrieval of the direct normal, diffuse horizontal and global horizontal irradiances using SEVIRI images. Solar Energy, 2013, 89, 1-16.	6.1	59
63	Temperature-land cover interactions: The inversion of urban heat island phenomenon in desert city areas. Remote Sensing of Environment, 2013, 130, 136-152.	11.0	184
64	Automatic Generation of Standard Deviation Attribute Profiles for Spectralâ€"Spatial Classification of Remote Sensing Data. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 293-297.	3.1	106
65	Semisupervised Self-Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4032-4044.	6.3	164
66	Real-time retrieval of dust emissions over the UAE desert from seviri thermal bands. , 2013, , .		1
67	Comparison of ITPCA and IRMAD for automatic change detection using initial change mask. , 2012, , .		3
68	Spectral unmixing of multispectral satellite images with dimensionality expansion using morphological profiles. , 2012, , .		6
69	Classification of Remote Sensing Optical and LiDAR Data Using Extended Attribute Profiles. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 856-865.	10.8	139
70	A novel supervised feature selection technique based on genetic algorithms. , 2012, , .		6
71	Classification of hyperspectral data using extended attribute profiles based on supervised and unsupervised feature extraction techniques. International Journal of Image and Data Fusion, 2012, 3, 269-298.	1.7	54
72	Linear Versus Nonlinear PCA for the Classification of Hyperspectral Data Based on the Extended Morphological Profiles. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 447-451.	3.1	273

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73	Extended morphological profiles using auto-associative neural networks for hyperspectral data classification. , 2011, , .		4
74	Hyperspectral change detection with IR-MAD and initial change mask. , 2011, , .		5
75	Object-based classification with features extracted by a semi-automatic feature extraction algorithm â€" SEaTH. Geocarto International, 2011, 26, 413-413.	3.5	3
76	Hyperspectral change detection using IR-MAD and feature reduction. , 2011, , .		10
77	Classification using Extended Morphological Attribute Profiles based on different feature extraction techniques. , 2011, , .		8
78	Spectral-spatial classification of polarimetric SAR data using morphological attribute profiles. Proceedings of SPIE, 2011, , .	0.8	11
79	Improving Change Detection Results of IR-MAD by Eliminating Strong Changes. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 799-803.	3.1	54
80	Fusion of hyperspectral and lidar data using morphological attribute profiles. , 2011, , .		3
81	Object-based classification with features extracted by a semi-automatic feature extraction algorithm â€" SEaTH. Geocarto International, 2011, 26, 211-226.	3.5	26
82	Discrimination of peatlands in tropical swamp forests using dual-polarimetric SAR and Landsat ETM data. International Journal of Image and Data Fusion, 2010, 1, 257-270.	1.7	12
83	Change detection using iteratively reweighted regression with neural networks. , 2010, , .		2
84	Comparison of advanced neural network architectures for hyperspectral data classification. , 2010, , .		2
85	Hyperspectral data classification using an ensemble of class-dependent neural networks. , 2009, , .		15
86	Object-based change detection and classification. , 2009, , .		2
87	Treaty monitoring from space: satellite imagery analysis for verifying treaty compliance. , 2009, , .		0
88	Soft Classification and Assessment of Kalman Filter Neural Network for Complex Landcover of Tropical Rainforests. , 2008, , .		3
89	Change detection using the object features. , 2007, , .		6
90	Unsupervised image segmentation by identifying natural clusters. , 2007, , .		3

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91	Automatic extraction of faults and fractal analysis from remote sensing data. Nonlinear Processes in Geophysics, 2007, 14, 131-138.	1.3	46