Paheding Sidike

List of Publications by Year
in descending order

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62 papers	4,273 citations	257450 24 h-index	214800 47 g-index
63 all docs	63 docs citations	63 times ranked	3498 citing authors

#	Article	IF	Citations
1	A State-of-the-Art Survey on Deep Learning Theory and Architectures. Electronics (Switzerland), 2019, 8, 292.	3.1	954
2	U-Net and Its Variants for Medical Image Segmentation: A Review of Theory and Applications. IEEE Access, 2021, 9, 82031-82057.	4.2	584
3	Soybean yield prediction from UAV using multimodal data fusion and deep learning. Remote Sensing of Environment, 2020, 237, 111599.	11.0	435
4	Monitoring inland water quality using remote sensing: potential and limitations of spectral indices, bio-optical simulations, machine learning, and cloud computing. Earth-Science Reviews, 2020, 205, 103187.	9.1	254
5	Unmanned Aerial System (UAS)-based phenotyping of soybean using multi-sensor data fusion and extreme learning machine. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 134, 43-58.	11.1	233
6	UAV-Based High Resolution Thermal Imaging for Vegetation Monitoring, and Plant Phenotyping Using ICI 8640 P, FLIR Vue Pro R 640, and thermoMap Cameras. Remote Sensing, 2019, 11, 330.	4.0	176
7	Urban Tree Species Classification Using a WorldView-2/3 and LiDAR Data Fusion Approach and Deep Learning. Sensors, 2019, 19, 1284.	3.8	147
8	Crop Monitoring Using Satellite/UAV Data Fusion and Machine Learning. Remote Sensing, 2020, 12, 1357.	4.0	135
9	Vegetation Index Weighted Canopy Volume Model (CVMVI) for soybean biomass estimation from Unmanned Aerial System-based RGB imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 151, 27-41.	11.1	127
10	Sentinel SAR-optical fusion for crop type mapping using deep learning and Google Earth Engine. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 175, 215-235.	11.1	108
11	Deep learning-based water quality estimation and anomaly detection using Landsat-8/Sentinel-2 virtual constellation and cloud computing. GIScience and Remote Sensing, 2020, 57, 510-525.	5.9	106
12	Suspended Sediment Concentration Estimation from Landsat Imagery along the Lower Missouri and Middle Mississippi Rivers Using an Extreme Learning Machine. Remote Sensing, 2018, 10, 1503.	4.0	88
13	Early Detection of Plant Viral Disease Using Hyperspectral Imaging and Deep Learning. Sensors, 2021, 21, 742.	3.8	82
14	Handwritten Bangla Character Recognition Using the State-of-the-Art Deep Convolutional Neural Networks. Computational Intelligence and Neuroscience, 2018, 2018, 1-13.	1.7	67
15	dPEN: deep Progressively Expanded Network for mapping heterogeneous agricultural landscape using WorldView-3 satellite imagery. Remote Sensing of Environment, 2019, 221, 756-772.	11.0	63
16	Field-scale crop yield prediction using multi-temporal WorldView-3 and PlanetScope satellite data and deep learning. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 174, 265-281.	11.1	63
17	Machine Learning-Based Ensemble Prediction of Water-quality Variables Using Feature-level and Decision-level Fusion with Proximal Remote Sensing. Photogrammetric Engineering and Remote Sensing, 2019, 85, 269-280.	0.6	57
18	Estimation of root zone soil moisture from ground and remotely sensed soil information with multisensor data fusion and automated machine learning. Remote Sensing of Environment, 2021, 260, 112434.	11.0	56

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19	Augmented Reality and Artificial Intelligence in industry: Trends, tools, and future challenges. Expert Systems With Applications, 2022, 207, 118002.	7.6	48
20	Quantifying Leaf Chlorophyll Concentration of Sorghum from Hyperspectral Data Using Derivative Calculus and Machine Learning. Remote Sensing, 2020, 12, 2082.	4.0	45
21	Dual Activation Function-Based Extreme Learning Machine (ELM) for Estimating Grapevine Berry Yield and Quality. Remote Sensing, 2019, 11, 740.	4.0	40
22	Urban tree species classification using UAV-based multi-sensor data fusion and machine learning. GIScience and Remote Sensing, 2021, 58, 1250-1275.	5.9	36
23	Adaptive Trigonometric Transformation Function With Image Contrast and Color Enhancement: Application to Unmanned Aerial System Imagery. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 404-408.	3.1	27
24	A New Optical Remote Sensing Technique for High-Resolution Mapping of Soil Moisture. Frontiers in Big Data, 2019, 2, 37.	2.9	26
25	Trends in Deep Learning for Medical Hyperspectral Image Analysis. IEEE Access, 2021, 9, 79534-79548.	4.2	25
26	Archaeological surveying with airborne LiDAR and UAV photogrammetry: A comparative analysis at Cahokia Mounds. Journal of Archaeological Science: Reports, 2020, 33, 102509.	0.5	23
27	Progressively Expanded Neural Network (PEN Net) for hyperspectral image classification: A new neural network paradigm for remote sensing image analysis. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 161-181.	11.1	21
28	Leveraging Very-High Spatial Resolution Hyperspectral and Thermal UAV Imageries for Characterizing Diurnal Indicators of Grapevine Physiology. Remote Sensing, 2020, 12, 3216.	4.0	21
29	Using ATR-FTIR spectra and convolutional neural networks for characterizing mixed plastic waste. Computers and Chemical Engineering, 2021, 155, 107547.	3.8	18
30	Trends in oil spill detection via hyperspectral imaging. , 2012, , .		16
31	Data-Driven Artificial Intelligence for Calibration of Hyperspectral Big Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	6.3	16
32	Short- and mid-term forecasts of actual evapotranspiration with deep learning. Journal of Hydrology, 2022, 612, 128078.	5.4	15
33	State Preserving Extreme Learning Machine: A Monotonically Increasing Learning Approach. Neural Processing Letters, 2017, 45, 703-725.	3.2	14
34	Effects of Ambient Ozone on Soybean Biophysical Variables and Mineral Nutrient Accumulation. Remote Sensing, 2018, 10, 562.	4.0	14
35	Volumetric Directional Pattern for Spatial Feature Extraction in Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1056-1060.	3.1	13
36	Jamming Detection and Classification in OFDM-Based UAVs via Feature- and Spectrogram-Tailored Machine Learning. IEEE Access, 2022, 10, 16859-16870.	4.2	13

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37	Classification of hyperspectral image using multiscale spatial texture features. , 2016, , .		12
38	State Preserving Extreme Learning Machine for face recognition. , 2015, , .		11
39	Multiclass Object Detection With Single Query in Hyperspectral Imagery Using Class-Associative Spectral Fringe-Adjusted Joint Transform Correlation. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1196-1208.	6.3	11
40	Deep-Learning-Incorporated Augmented Reality Application for Engineering Lab Training. Applied Sciences (Switzerland), 2022, 12, 5159.	2.5	11
41	Binary chemical reaction optimization based feature selection techniques for machine learning classification problems. Expert Systems With Applications, 2021, 167, 114169.	7.6	8
42	A fast single-image super-resolution via directional edge-guided regularized extreme learning regression. Signal, Image and Video Processing, 2017, 11, 961-968.	2.7	7
43	Deterministic object tracking using Gaussian ringlet and directional edge features. Optics and Laser Technology, 2017, 95, 133-146.	4.6	7
44	Integrating Remote Sensing and Machine Learning for Regional-Scale Habitat Mapping: Advances and Future Challenges for Desert Locust Monitoring. IEEE Geoscience and Remote Sensing Magazine, 2021, , 2-32.	9.6	6
45	Directional ringlet intensity feature transform for tracking. , 2015, , .		4
46	Automatic building change detection through adaptive local textural features and sequential background removal. , 2016, , .		4
47	Polly: A Tool for Rapid Data Integration and Analysis in Support of Agricultural Research and Education. Internet of Things (Netherlands), 2020, 9, 100141.	7.7	4
48	Logarithmic fringe-adjusted joint transform correlation. Optical Engineering, 2013, 52, 103108.	1.0	3
49	Intrusion detection in aerial imagery for protecting pipeline infrastructure. , 2015, , .		3
50	A modular approach for key-frame selection in wide area surveillance video analysis. , 2015, , .		3
51	Automatic building change detection in wide area surveillance. , 2015, , .		2
52	Recent progress in wide-area surveillance: protecting our pipeline infrastructure. Proceedings of SPIE, 2015, , .	0.8	2
53	Forest Conservation with Deep Learning: A Deeper Understanding of Human Geography around the Betampona Nature Reserve, Madagascar. Remote Sensing, 2021, 13, 3495.	4.0	2
54	Crop Yield Prediction using Satellite/Uav Synergy and Machine Learning. , 2021, , .		2

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55	Efficient face recognition using shifted phase-encoded fringe-adjusted joint transform correlator. , 2013, , .		1
56	Quantitative Remote Sensing of Land Surface Variables: Progress and Perspective. Remote Sensing, 2019, 11, 2150.	4.0	1
57	Efficient Key Frame Selection Approach for Object Detection in Wide Area Surveillance Applications. International Journal of Monitoring and Surveillance Technologies Research, 2015, 3, 20-34.	0.3	0
58	Boosted ringlet features for robust object tracking. , 2016, , .		0
59	Scene sketch generation using mixture of gradient kernels and adaptive thresholding. Proceedings of SPIE, 2016, , .	0.8	0
60	Tracking visual objects using pyramidal rotation invariant features. Proceedings of SPIE, 0, , .	0.8	0
61	Editorial "Computer Vision and Big Data Analytics for Remote Sensing". Photogrammetric Engineering and Remote Sensing, 2018, 84, 423-423.	0.6	0
62	Extreme learning machine with variance inflation factor for robust pattern recognition. , 2017, , .		0