V Sowmya

List of Publications by Year in Descending Order

108 papers	466 citations	9 h-index	13 g-index
136 ext. papers	677 ext. citations	1.1 avg, IF	4.44 L-index

#	Paper	IF	Citations
108	Unsupervised Deep Learning Approach for the Identification of Intracranial Haemorrhage in CT Images Using PCA-Net and K-Means Algorithm. *Studies in Autonomic, Data-driven and Industrial Computing*, **2022**, 23-31		0
107	Early Warning Indicators for Financial Crisis During Covid-19. *Communications in Computer and Information Science*, **2022**, 229-243	0.3	
106	Ensemble of Deep Transfer Learning Models for Parkinson's Disease Classification. *Advances in Intelligent Systems and Computing*, **2022**, 135-143	0.4	1
105	Deep Learning-Based Approach for Parkinson's Disease Detection Using Region of Interest. *Lecture Notes in Networks and Systems*, **2022**, 1-13	0.5	1
104	Classification of Class-Imbalanced Diabetic Retinopathy Images Using the Synthetic Data Creation by Generative Models. *Lecture Notes in Networks and Systems*, **2022**, 15-24	0.5	
103	Geometry-Based Machining Feature Retrieval with Inductive Transfer Learning. *Smart Innovation, Systems and Technologies*, **2022**, 31-39	0.5	
102	Synthetic Data Augmentation of MRI using Generative Variational Autoencoder for Parkinson's Disease Detection. *Smart Innovation, Systems and Technologies*, **2022**, 171-178	0.5	
101	Odonata identification using Customized Convolutional Neural Networks. *Expert Systems With Applications*, **2022**, 117688	7.8	
100	Segmentation of Epiphytes in Grayscale Images Using a CNN-Transformer Hybrid Architecture. *Lecture Notes in Networks and Systems*, **2022**, 119-129	0.5	
99	Epiphyte Segmentation using DRU-Net. *Lecture Notes in Networks and Systems*, **2022**, 101-108	0.5	
98	Impact of Dimension Reduced Spectral Features on Open Set Domain Adaptation for Hyperspectral Image Classification. *Advances in Intelligent Systems and Computing*, **2021**, 737-746	0.4	1
97	Performance Improvement in Deep Learning Architecture for Phonocardiogram Signal Classification Using Spectrogram. *Communications in Computer and Information Science*, **2021**, 538-549	0.3	1
96	Performance Improvement of Deep Residual Skip Convolution Neural Network for Atrial Fibrillation Classification. *Advances in Intelligent Systems and Computing*, **2021**, 755-763	0.4	1
95	Tuberculosis Classification Using Pre-trained Deep Learning Models. *Lecture Notes in Electrical Engineering*, **2021**, 767-774	0.2	2
94	A Comparative Evaluation of Decomposition Methods Based on Pitch Estimation of Piano Notes. *Smart Innovation, Systems and Technologies*, **2021**, 833-843	0.5	
93	Effect of Annotation and Loss Function on Epiphyte Identification using Conditional Generative Adversarial Network **2021**,		3
92	Performance Analysis of Segmentor Adversarial Network (SegAN) on Bio-Medical Images for Image Segmentation. *Lecture Notes in Electrical Engineering*, **2021**, 751-758	0.2	

91	Lung-GANs: Unsupervised Representation Learning for Lung Disease Classification Using Chest CT and X-Ray Images. *IEEE Transactions on Engineering Management*, **2021**, 1-13	2.6	3
90	Multi-task Data Driven Modelling Based on Transfer Learned Features in Deep Learning for Biomedical Application. *Lecture Notes in Networks and Systems*, **2021**, 185-193	0.5	1
89	Explainable Deep Learning-Based Approach for Multilabel Classification of Electrocardiogram. *IEEE Transactions on Engineering Management*, **2021**, 1-13	2.6	2
88	Investigating the Significance of Dynamic Mode Decomposition for Fast and Accurate Parameter Estimation in Power Grids **2020**,		1
87	Deep Convolutional Neural Network Based Image Spam Classification **2020**,		8
86	Transferable approach for cardiac disease classification using deep learning **2020**, 285-303		8
85	Facial Emotion Recognition Using Shallow CNN. *Communications in Computer and Information Science*, **2020**, 144-150	0.3	2
84	Performance Improvement of Residual Skip Convolutional Neural Network for Myocardial Disease Classification **2020**, 226-234		3
83	Remote Sensing Image Super-Resolution Using Residual Dense Network. *Advances in Intelligent Systems and Computing*, **2020**, 721-729	0.4	
82	Explainable artificial intelligence for heart rate variability in ECG signal. *Healthcare Technology Letters*, **2020**, 7, 146-154	1.9	4
81	Capsule Network for Plant Disease and Plant Species Classification. *Advances in Intelligent Systems and Computing*, **2020**, 413-421	0.4	5
80	Effect of Data Pre-processing on Brain Tumor Classification Using Capsulenet **2020**, 110-119		5
79	Open Set Domain Adaptation for Hyperspectral Image Classification Using Generative Adversarial Network. *Lecture Notes in Networks and Systems*, **2020**, 819-827	0.5	10
78	Musculoskeletal radiographs classification using deep learning **2020**, 79-98		5
77	Performance Analysis of NASNet on Unconstrained Ear Recognition. *Studies in Computational Intelligence*, **2020**, 57-82	0.8	9
76	Multi-scale Learning based Malware Variant Detection using Spatial Pyramid Pooling Network **2020** ,		8
75	Deep Learning Based Approach for Multiple Myeloma Detection **2020**,		4
74	**2020**,		4

73	Significance of processing chrominance information for scene classification: a review. *Artificial Intelligence Review*, **2020**, 53, 811-842	9.7	2
72	Deep learning architectures for land cover classification using red and near-infrared satellite images. *Multimedia Tools and Applications*, **2019**, 78, 18379-18394	2.5	14
71	Effect of denoising on hyperspectral image classification using deep networks and kernel methods. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 2067-2073	1.6	3
70	Pre-processed Hyperspectral Image Analysis Using Tensor Decomposition Techniques. *Communications in Computer and Information Science*, **2019**, 205-216	0.3	1
69	Breast Cancer Classification using Capsule Network with Preprocessed Histology Images **2019**,		18
68	Single-Plane Scene Classification Using DeepConvolution Features. *Advances in Intelligent Systems and Computing*, **2019**, 743-752	0.4	3
67	Deep rectified system for high-speed tracking in images. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 1957-1965	1.6	2
66	Convolutional Neural Networks for Fingerprint Liveness Detection System **2019**,		3
65	Dimensionality Reduction by Dynamic Mode Decomposition for Hyperspectral Image Classification Using Deep Learning and Kernel Methods. *Communications in Computer and Information Science*, **2019**, 256-267	0.3	1
64	Performance Improvement of Deep Learning Architectures for Phonocardiogram Signal Classification using Fast Fourier Transform **2019**,		4
63	Indian Car Number Plate Recognition using Deep Learning **2019**,		6
62	Land Cover Satellite Image Classification Using NDVI and SimpleCNN **2019**,		2
61	A Two-Band Convolutional Neural Network for Satellite Image Classification. *Lecture Notes in Electrical Engineering*, **2019**, 161-170	0.2	0
60	Dimensionally Reduced Features for Hyperspectral Image Classification Using Deep Learning. *Lecture Notes in Electrical Engineering*, **2019**, 171-179	0.2	5
59	Scene Classification Using Transfer Learning. *Studies in Computational Intelligence*, **2019**, 363-399	0.8	2
58	Hyperspectral Image: Fundamentals and Advances. *Studies in Computational Intelligence*, **2019**, 401-424	0.8	3
57	Effect of Legendre–Fenchel denoising and SVD-based dimensionality reduction algorithm on hyperspectral image classification. *Neural Computing and Applications*, **2018**, 29, 301-310	4.8	8
56	Band selection using variational mode decomposition applied in sparsity-based hyperspectral unmixing algorithms. *Signal, Image and Video Processing*, **2018**, 12, 1463-1470	1.6	2

55	Effect of Dynamic Mode Decomposition-Based Dimension Reduction Technique on Hyperspectral Image Classification. *Lecture Notes in Electrical Engineering*, **2018**, 89-99	0.2	7
54	Effect of Dimensionality Reduction on Sparsity Based Hyperspectral Unmixing. *Advances in Intelligent Systems and Computing*, **2018**, 429-439	0.4	2
53	Dependency of Various Color and Intensity Planes on CNN Based Image Classification. *Advances in Intelligent Systems and Computing*, **2018**, 167-177	0.4	4
52	Least Square Based Fast Denoising Approach to Hyperspectral Imagery. *Advances in Intelligent Systems and Computing*, **2018**, 107-115	0.4	3
51	Effect of Denoising on Vectorized Convolutional Neural Network for Hyperspectral Image Classification. *Lecture Notes in Electrical Engineering*, **2018**, 305-313	0.2	3
50	Fusion of Panchromatic Image with Low-Resolution Multispectral Images Using Dynamic Mode Decomposition. *Lecture Notes in Electrical Engineering*, **2018**, 335-346	0.2	1
49	Deep AlexNet with Reduced Number of Trainable Parameters for Satellite Image Classification. *Procedia Computer Science*, **2018**, 143, 931-938	1.6	12
48	Effect of Decolorized Images In Scene Classification Using Deep Convolution Features. *Procedia Computer Science*, **2018**, 143, 954-961	1.6	1
47	Deep Neural Networks as Feature Extractors for Classification of Vehicles in Aerial Imagery **2018**,		6
46	Dimensionality Reduction of Hyperspectral Images for Classification using Randomized Independent Component Analysis **2018**,		4
45	Multi-sensor data fusion using NIHS transform and decomposition algorithms. *Multimedia Tools and Applications*, **2018**, 77, 30381-30402	2.5	2
44	Significance of incorporating chrominance information for effective color-to-grayscale image conversion. *Signal, Image and Video Processing*, **2017**, 11, 129-136	1.6	22
43	Application of M-band wavelet in pan-sharpening. *Journal of Intelligent and Fuzzy Systems*, **2017**, 32, 3151-3158	1.6	2
42	Effect of Denoising on Dimensionally Reduced Sparse Hyperspectral Unmixing. *Procedia Computer Science*, **2017**, 115, 391-398	1.6	2
41	Vehicle detection in aerial imagery using eigen features **2017**,		5
40	Hyperspectral image denoising: A least square approach using wavelet filters **2017**,		1
39	Improved color scene classification system using deep belief networks and support vector machines **2017**,		3
38	Significance of contrast and structure features for an improved color image classification system **2017**,		5

37	Image denoising based on weighted regularized least square method **2017**,		2
36	Least Square Denoising in Spectral Domain for Hyperspectral Images. *Procedia Computer Science*, **2017**, 115, 399-406	1.6	6
35	Least square based image deblurring **2017**,		2
34	Image dehazing using variational mode decomposition **2017**,		4
33	Significance of perceptually relevant image decolorization for scene classification. *Journal of Electronic Imaging*, **2017**, 26, 1	0.7	1
32	Least Square based Signal Denoising and Deconvolution using Wavelet Filters. *Indian Journal of Science and Technology*, **2016**, 9,	1	2
31	Least Square based Image Denoising using Wavelet Filters. *Indian Journal of Science and Technology* , **2016**, 9,	1	6
30	Application of Least Square Denoising to Improve ADMM Based Hyperspectral Image Classification. *Procedia Computer Science*, **2016**, 93, 416-423	1.6	6
29	Analysis of Various Color Space Models on Effective Single Image Super Resolution. *Advances in Intelligent Systems and Computing*, **2016**, 529-540	0.4	3
28	Dimensionality Reduced Recursive Filter Features for Hyperspectral Image Classification. *Advances in Intelligent Systems and Computing*, **2016**, 557-565	0.4	
27	Hyperspectral Image Denoising Using Legendre-Fenchel Transform for Improved Sparsity Based Classification. *Advances in Intelligent Systems and Computing*, **2016**, 521-528	0.4	4
26	Variational Mode Feature-Based Hyperspectral Image Classification. *Advances in Intelligent Systems and Computing*, **2016**, 365-373	0.4	5
25	Regularized Least Square Approach for Remote Sensing Image Denoising using Wavelet Filters. *Indian Journal of Science and Technology*, **2016**, 9,	1	2
24	Low contrast satellite image restoration based on adaptive histogram equalization and discrete wavelet transform **2016**,		1
23	X-ray image classification based on tumor using GURLS and LIBSVM **2016**,		6
22	Aerial image classification using GURLS and LIBSVM **2016**,		5
21	Empirical Wavelet Transform for Multifocus Image Fusion. *Advances in Intelligent Systems and Computing*, **2016**, 257-263	0.4	3
20	Performance Enhancement of Minimum Volume-Based Hyperspectral Unmixing Algorithms by Empirical Wavelet Transform. *Advances in Intelligent Systems and Computing*, **2016**, 251-256	0.4	

19	Dimensionality Reduction Using Band Selection Technique for Kernel Based Hyperspectral Image Classification. *Procedia Computer Science*, **2016**, 93, 396-402	1.6	14
18	Trend Filter for Image Denoising. *Procedia Computer Science*, **2016**, 93, 495-502	1.6	6
17	Comparative Analysis of Scattering and Random Features in Hyperspectral Image Classification. *Procedia Computer Science*, **2015**, 58, 307-314	1.6	4
16	Hyperspectral Image Denoising Using Low Pass Sparse Banded Filter Matrix for Improved Sparsity Based Classification. *Procedia Computer Science*, **2015**, 58, 26-33	1.6	4
15	ADMM based Hyperspectral Image Classification Improved by Denoising using Legendre Fenchel Transformation. *Indian Journal of Science and Technology*, **2015**, 8,	1	7
14	Edge Detection Using Sparse Banded Filter Matrices. *Procedia Computer Science*, **2015**, 58, 10-17	1.6	4
13	Sparse Banded Matrix Filter for Image Denoising. *Indian Journal of Science and Technology*, **2015**, 8,	1	2
12	Multispectral and Panchromatic Image Fusion using Empirical Wavelet Transform. *Indian Journal of Science and Technology*, **2015**, 8,	1	7
11	GURLS vs LIBSVM: Performance Comparison of Kernel Methods for Hyperspectral Image Classification. *Indian Journal of Science and Technology*, **2015**, 8,	1	12
10	A novel approach for denoising coloured remote sensing image using Legendre Fenchel Transformation **2014**,		5
9	Image Classification Using Convolutional Neural Networks. *International Journal of Scientific and Engineering Research*, **2014**, 5, 1661-1668	1.8	43
8	2D Image data approximation using Savitzky Golay filter Smoothing and differencing **2013**,		8
7	An experimental study on application of Orthogonal Matching Pursuit algorithm for image denoising **2013**,		3
6	Computation of Continuous Wavelet Transform Using Microsoft Excel SpreadSheet **2012**,		2
5	An effective pre-processing algorithm for detecting noisy spectral bands in hyperspectral imagery **2011**,		7
4	Super Resolution Blind Reconstruction of Low Resolution Images Using Framelets Based Fusion **2010**,		2
3	IDENTIFYING EPIPHYTES IN DRONES PHOTOS WITH A CONDITIONAL GENERATIVE ADVERSARIAL NETWORK (C-GAN). *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*,XLIV-M-2-2020, 99-104	2.5	5
2	Robust Malware Detection using Residual Attention Network		2

1 Identification of intracranial haemorrhage (ICH) using ResNet with data augmentation using CycleGAN and ICH segmentation using SegAN. *Multimedia Tools and Applications*,1 2.5 1