Yakoub Bazi

List of Publications by Year
in descending order

108 papers	5,910 citations	101384 36 h-index	74018 75 g-index
108 all docs	108 docs citations	108 times ranked	5383 citing authors

#	ARTICLE	IF	CITATIONS
1	Continual Learning Approach for Remote Sensing Scene Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	8
2	Contrasting YOLOv5, Transformer, and EfficientDet Detectors for Crop Circle Detection in Desert. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	60
3	COVID-19 Detection in CT/X-ray Imagery Using Vision Transformers. Journal of Personalized Medicine, 2022, 12, 310.	1.1	25
4	Energy-based learning for open-set classification in remote sensing imagery. International Journal of Remote Sensing, 2022, 43, 6027-6037.	1.3	2
5	Adversarial Learning for Knowledge Adaptation From Multiple Remote Sensing Sources. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1451-1455.	1.4	8
6	Deep Learning Approach for COVID-19 Detection in Computed Tomography Images. Computers, Materials and Continua, 2021, 67, 2093-2110.	1.5	9
7	Transformers and Generative Adversarial Networks for Liveness Detection in Multitarget Fingerprint Sensors. Sensors, 2021, 21, 699.	2.1	10
8	Vision Transformers for Remote Sensing Image Classification. Remote Sensing, 2021, 13, 516.	1.8	250
9	Detecting Crop Circles in Google Earth Images with Mask R-CNN and YOLOv3. Applied Sciences (Switzerland), 2021, 11, 2238.	1.3	4
10	UAV Image Multi-Labeling with Data-Efficient Transformers. Applied Sciences (Switzerland), 2021, 11, 3974.	1.3	13
11	A Fast Firefly Algorithm for Function Optimization: Application to the Control of BLDC Motor. Sensors, 2021, 21, 5267.	2.1	8
12	Unified Generative Adversarial Networks for Multidomain Fingerprint Presentation Attack Detection. Entropy, 2021, 23, 1089.	1.1	5
13	SSDAN: Multi-Source Semi-Supervised Domain Adaptation Network for Remote Sensing Scene Classification. Remote Sensing, 2021, 13, 3861.	1.8	19
14	LwF-ECG: Learning-without-forgetting approach for electrocardiogram heartbeat classification based on memory with task selector. Computers in Biology and Medicine, 2021, 137, 104807.	3.9	10
15	Classification of Remote Sensing Images Using EfficientNet-B3 CNN Model With Attention. IEEE Access, 2021, 9, 14078-14094.	2.6	144
16	Deep Vision Transformers for Remote Sensing Scene Classification. , 2021, , .		14
17	Classification of Remote Sensing scenes using Semi-Supervised Domain Adaptation based on Entropy Adversarial Optimization. , 2021, , .		1
18	Assisting the Visually Impaired in Multi-object Scene Description Using OWA-Based Fusion of CNN Models. Arabian Journal for Science and Engineering, 2020, 45, 10511-10527.	1.7	6

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19	Deep Unsupervised Embedding for Remote Sensing Image Retrieval Using Textual Cues. Applied Sciences (Switzerland), 2020, 10, 8931.	1.3	14
20	Real-Time Mobile-Based Electrocardiogram System for Remote Monitoring of Patients with Cardiac Arrhythmias. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2058013.	0.7	9
21	Deep Learning approach for Multiple Source Classification in Remote Sensing Imagery. , 2020, , .		0
22	Two-Stage Mask-RCNN Approach for Detecting and Segmenting the Optic Nerve Head, Optic Disc, and Optic Cup in Fundus Images. Applied Sciences (Switzerland), 2020, 10, 3833.	1.3	38
23	Deep Open-Set Domain Adaptation for Cross-Scene Classification based on Adversarial Learning and Pareto Ranking. Remote Sensing, 2020, 12, 1716.	1.8	26
24	End-to-End Deep Learning Fusion of Fingerprint and Electrocardiogram Signals for Presentation Attack Detection. Sensors, 2020, 20, 2085.	2.1	27
25	TextRS: Deep Bidirectional Triplet Network for Matching Text to Remote Sensing Images. Remote Sensing, 2020, 12, 405.	1.8	49
26	SqueezeNet with Attention for Remote Sensing Scene Classification. , 2020, , .		5
27	Selective Data Augmentation Approach for Remote Sensing Scene Classification. , 2020, , .		2
28	EfficientNet Combined with Generative Adversarial Networks for Presentation Attack Detection. , 2020, , .		3
29	Deep Attention Neural Network for Multi-Label Classification in Unmanned Aerial Vehicle Imagery. IEEE Access, 2019, 7, 119873-119880.	2.6	22
30	Editorial to Special Issue â€œMultispectral Image Acquisition, Processing, and Analysisâ€. Remote Sensing, 2019, 11, 2310.	1.8	0
31	A novel deep learning based method for the computational material design of flexoelectric nanostructures with topology optimization. Finite Elements in Analysis and Design, 2019, 165, 21-30.	1.7	53
32	Unsupervised Domain Adaptation Using Generative Adversarial Networks for Semantic Segmentation of Aerial Images. Remote Sensing, 2019, 11, 1369.	1.8	150
33	Simple Yet Effective Fine-Tuning of Deep CNNs Using an Auxiliary Classification Loss for Remote Sensing Scene Classification. Remote Sensing, 2019, 11, 2908.	1.8	69
34	Helping the Visually Impaired See via Image Multi-labeling Based on SqueezeNet CNN. Applied Sciences (Switzerland), 2019, 9, 4656.	1.3	23
35	Dense Convolutional Networks With Focal Loss and Image Generation for Electrocardiogram Classification. IEEE Access, 2019, 7, 182225-182237.	2.6	24
36	Scene Description for Visually Impaired People with Multi-Label Convolutional SVM Networks. Applied Sciences (Switzerland), 2019, 9, 5062.	1.3	10

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37	Two-Branch Neural Network for Learning Multi-label Classification in UAV Imagery. , 2019, , .		6
38	Multi-Scale Convolutional SVM Networks for Multi-Class Classification Problems of Remote Sensing Images. , 2019, , .		4
39	Asymmetric Adaptation of Deep Features for Cross-Domain Classification in Remote Sensing Imagery. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 597-601.	1.4	47
40	Reconstructing Cloud-Contaminated Multispectral Images With Contextualized Autoencoder Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2270-2282.	2.7	29
41	Convolutional SVM Networks for Object Detection in UAV Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3107-3118.	2.7	102
42	Convolutional Neural Networks for Electrocardiogram Classification. Journal of Medical and Biological Engineering, 2018, 38, 1014-1025.	1.0	75
43	One‐dimensional convolutional neural networks for spectroscopic signal regression. Journal of Chemometrics, 2018, 32, e2977.	0.7	137
44	Learning a Multi-Branch Neural Network from Multiple Sources for Knowledge Adaptation in Remote Sensing Imagery. Remote Sensing, 2018, 10, 1890.	1.8	33
45	Automatic Premature Ventricular Contractions Detection for Multi-Lead Electrocardiogram Signal. , 2018, , .		8
46	Generative Adversarial Networks for Cross-Scene Classification in Remote Sensing Images. , 2018, , .		5
47	Multi-Scale Convolutional Neural Network for Remote Sensing Scene Classification. , 2018, , .		17
48	Siamese-GAN: Learning Invariant Representations for Aerial Vehicle Image Categorization. Remote Sensing, 2018, 10, 351.	1.8	50
49	Learning Robust Deep Features for Efficient Classification of UAV Imagery. , 2018, , .		5
50	Tile-Based Semisupervised Classification of Large-Scale VHR Remote Sensing Images. Journal of Sensors, 2018, 2018, 1-14.	0.6	15
51	Aspects of generalized orthopair fuzzy sets. International Journal of Intelligent Systems, 2018, 33, 2154-2174.	3.3	85
52	Fast indoor scene description for blind people with multiresolution random projections. Journal of Visual Communication and Image Representation, 2017, 44, 95-105.	1.7	13
53	Domain Adaptation Network for Cross-Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4441-4456.	2.7	127
54	A Deep Learning Approach to UAV Image Multilabeling. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 694-698.	1.4	75

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55	Deep Learning Approach for Car Detection in UAV Imagery. Remote Sensing, 2017, 9, 312.	1.8	219
56	Real-Time Indoor Scene Description for the Visually Impaired Using Autoencoder Fusion Strategies with Visible Cameras. Sensors, 2017, 17, 2641.	2.1	12
57	Using convolutional features and a sparse autoencoder for land-use scene classification. International Journal of Remote Sensing, 2016, 37, 2149-2167.	1.3	141
58	Three-Layer Convex Network for Domain Adaptation in Multitemporal VHR Images. IEEE Geoscience and Remote Sensing Letters, 2016, , 1-5.	1.4	8
59	Deep learning approach for active classification of electrocardiogram signals. Information Sciences, 2016, 345, 340-354.	4.0	467
60	A hierarchical learning paradigm for semi-supervised classification of remote sensing images. , 2015, , .		5
61	A deep learning approach for unsupervised domain adaptation in multitemporal remote sensing images. , 2015, , .		5
62	A Compressive Sensing Approach to Describe Indoor Scenes for Blind People. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1246-1257.	5.6	34
63	A fast object detector based on high-order gradients and Gaussian process regression for UAV images. International Journal of Remote Sensing, 2015, 36, 2713-2733.	1.3	28
64	Classification of AAMI heartbeat classes with an interactive ELM ensemble learning approach. Biomedical Signal Processing and Control, 2015, 19, 56-67.	3.5	18
65	Land-Use Classification With Compressive Sensing Multifeature Fusion. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2155-2159.	1.4	71
66	Multiclass Coarse Analysis for UAV Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6394-6406.	2.7	26
67	Toward an assisted indoor scene perception for blind people with image multilabeling strategies. Expert Systems With Applications, 2015, 42, 2907-2918.	4.4	18
68	Fusion of Extreme Learning Machine and Graph-Based Optimization Methods for Active Classification of Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 527-531.	1.4	54
69	Efficient Framework for Palm Tree Detection in UAV Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4692-4703.	2.3	87
70	Introduction of the IEEE Saudi Arabia Section Geoscience and Remote Sensing Society Chapter [Chapters]. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 62-64.	4.9	0
71	An automatic approach for palm tree counting in UAV images. , 2014, , .		18
72	Detection of premature ventricular contraction arrhythmias in electrocardiogram signals with kernel methods. Signal, Image and Video Processing, 2014, 8, 931-942.	1.7	43

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73	Robust Estimation of Water Chlorophyll Concentrations With Gaussian Process Regression and IOWA Aggregation Operators. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3019-3028.	2.3	21
74	Clustering of Hyperspectral Images with an Ensemble Method Based on Fuzzy C-Means and Markov Random Fields. Arabian Journal for Science and Engineering, 2014, 39, 3747-3757.	1.1	10
75	Differential Evolution Extreme Learning Machine for the Classification of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1066-1070.	1.4	126
76	Assessing the Reconstructability of Shadow Areas in VHR Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2863-2873.	2.7	5
77	Interactive Segmentation for Change Detection in Multispectral Remote-Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 298-302.	1.4	25
78	Using OWA Fusion Operators for the Classification of Hyperspectral Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 602-614.	2.3	12
79	Domain adaptation methods for ECG classification. , 2013, , .		29
80	A novel fusion approach based on induced ordered weighted averaging operators for chemometric data analysis. Journal of Chemometrics, 2013, 27, 447-456.	0.7	16
81	Ensemble classification of hyperspectral images based on ordered weighted averaging operators. , 2013, , .		3
82	Robust classification of hyperspectral images based on the combination of supervised and unsupervised learning paradigms. , 2012, , .		3
83	Interactive change detection techniques in multitemporal multispectral remote sensing images. , 2012, , .		0
84	Fusion of supervised and unsupervised learning for improved classification of hyperspectral images. Information Sciences, 2012, 217, 39-55.	4.0	69
85	Improved Estimation of Water Chlorophyll Concentration With Semisupervised Gaussian Process Regression. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2733-2743.	2.7	28
86	Active Learning Methods for Biophysical Parameter Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4071-4084.	2.7	32
87	Active learning for spectroscopic data regression. Journal of Chemometrics, 2012, 26, 374-383.	0.7	28
88	HBS: A Novel Biometric Feature Based on Heartbeat Morphology. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 445-453.	3.6	44
89	Support Vector Machine Active Learning Through Significance Space Construction. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 431-435.	1.4	58
90	A cluster ensemble method for robust unsupervised classification of VHR remote sensing images. , 2011, , .		4

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91	Unsupervised Change Detection in Multispectral Remotely Sensed Imagery With Level Set Methods. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3178-3187.	2.7	146
92	Semisupervised Gaussian process regression for biophysical parameter estimation. , 2010, , .		3
93	Gaussian Process Approach to Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 186-197.	2.7	114
94	A variational level-set method for unsupervised change detection in remote sensing images. , 2009, , .		9
95	An automatic method for counting olive trees in very high spatial remote sensing images. , 2009, , .		12
96	A Multiobjective Genetic SVM Approach for Classification Problems With Limited Training Samples. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1707-1718.	2.7	67
97	A genetic expectation-maximization method for unsupervised change detection in multitemporal SAR imagery. International Journal of Remote Sensing, 2009, 30, 6591-6610.	1.3	34
98	Classification of Electrocardiogram Signals With Support Vector Machines and Particle Swarm Optimization. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 667-677.	3.6	421
99	Classification of Hyperspectral Remote Sensing Images Using Gaussian Processes. , 2008, , .		8
100	A multiobjective PSO inflation methodology for SVM regression with limited training samples. , 2007, , .		0
101	Semisupervised PSO-SVM Regression for Biophysical Parameter Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1887-1895.	2.7	78
102	Image thresholding based on the EM algorithm and the generalized Gaussian distribution. Pattern Recognition, 2007, 40, 619-634.	5.1	201
103	Automatic Identification of the Number and Values of Decision Thresholds in the Log-Ratio Image for Change Detection in SAR Images. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 349-353.	1.4	85
104	Markovian Fusion Approach to Robust Unsupervised Change Detection in Remotely Sensed Imagery. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 457-461.	1.4	60
105	Toward an Optimal SVM Classification System for Hyperspectral Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 3374-3385.	2.7	369
106	Automatic analysis of the log-ratio image for the detection of multiple changes in multitemporal SAR images. , 2005, 5982, 264.		1
107	An unsupervised approach based on the generalized Gaussian model to automatic change detection in multitemporal SAR images. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 874-887.	2.7	578
108	Change detection in multitemporal SAR images based on generalized Gaussian distribution and EM algorithm. , 2004, , .		4