Farid Melgani

List of Publications by Year in descending order

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109137 88477 5,420 127 35 citations h-index papers

g-index 127 127 127 5602 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Deep learning approach for active classification of electrocardiogram signals. Information Sciences, 2016, 345, 340-354.	4.0	467
2	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
3	Nearest Neighbor Classification of Remote Sensing Images With the Maximal Margin Principle. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1804-1811.	2.7	216
4	Automatic Analysis of GPR Images: A Pattern-Recognition Approach. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2206-2217.	2.7	194
5	A Convolutional Neural Network Approach for Assisting Avalanche Search and Rescue Operations with UAV Imagery. Remote Sensing, 2017, 9, 100.	1.8	164
6	Automatic Car Counting Method for Unmanned Aerial Vehicle Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1635-1647.	2.7	160
7	A wavelet optimization approach for ECG signal classification. Biomedical Signal Processing and Control, 2012, 7, 342-349.	3.5	154
8	Detecting Cars in UAV Images With a Catalog-Based Approach. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6356-6367.	2.7	153
9	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
10	Using convolutional features and a sparse autoencoder for land-use scene classification. International Journal of Remote Sensing, 2016, 37, 2149-2167.	1.3	141
11	Oneâ€dimensional convolutional neural networks for spectroscopic signal regression. Journal of Chemometrics, 2018, 32, e2977.	0.7	137
12	SVM Active Learning Approach for Image Classification Using Spatial Information. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2217-2233.	2.7	128
13	Domain Adaptation Network for Cross-Scene Classification. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4441-4456.	2.7	127
14	Differential Evolution Extreme Learning Machine for the Classification of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1066-1070.	1.4	126
15	Gaussian Process Approach to Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 186-197.	2.7	114
16	Gaussian Process Regression for Estimating Chlorophyll Concentration in Subsurface Waters From Remote Sensing Data. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 464-468.	1.4	110
17	Convolutional SVM Networks for Object Detection in UAV Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3107-3118.	2.7	102
18	Computer vision-based phenotyping for improvement of plant productivity: a machine learning perspective. GigaScience, 2019, 8, .	3.3	99

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19	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
20	Semisupervised PSO-SVM Regression for Biophysical Parameter Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1887-1895.	2.7	78
21	Inpainting Strategies for Reconstruction of Missing Data in VHR Images. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 914-918.	1.4	77
22	A Deep Learning Approach to UAV Image Multilabeling. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 694-698.	1.4	75
23	Missing-Area Reconstruction in Multispectral Images Under a Compressive Sensing Perspective. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3998-4008.	2.7	74
24	Land-Use Classification With Compressive Sensing Multifeature Fusion. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2155-2159.	1.4	71
25	Fusion of supervised and unsupervised learning for improved classification of hyperspectral images. Information Sciences, 2012, 217, 39-55.	4.0	69
26	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
27	Active Learning Methods for Electrocardiographic Signal Classification. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 1405-1416.	3 . 6	67
28	Recovering the sight to blind people in indoor environments with smart technologies. Expert Systems With Applications, 2016, 46, 129-138.	4.4	65
29	A Complete Processing Chain for Shadow Detection and Reconstruction in VHR Images. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3440-3452.	2.7	61
30	Support Vector Machine Active Learning Through Significance Space Construction. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 431-435.	1.4	58
31	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
32	Contextual Spatiospectral Postreconstruction of Cloud-Contaminated Images. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 204-208.	1.4	51
33	Toward Remote Sensing Image Retrieval Under a Deep Image Captioning Perspective. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4462-4475.	2.3	45
34	A SIFT-SVM method for detecting cars in UAV images. , 2012, , .		43
35	Detection of premature ventricular contraction arrhythmias in electrocardiogram signals with kernel methods. Signal, Image and Video Processing, 2014, 8, 931-942.	1.7	43
36	GPR B scan image analysis with deep learning methods. Measurement: Journal of the International Measurement Confederation, 2020, 165, 107770.	2. 5	42

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37	Genetic SVM Approach to Semisupervised Multitemporal Classification. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 212-216.	1.4	39
38	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
39	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
40	Convolutional neural networks for near real-time object detection from UAV imagery in avalanche search and rescue operations. , 2016 , , .		34
41	Genetic algorithm-based method for mitigating label noise issue in ECG signal classification. Biomedical Signal Processing and Control, 2015, 19, 130-136.	3.5	33
42	Active Learning Methods for Biophysical Parameter Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4071-4084.	2.7	32
43	Large-Scale Image Classification Using Active Learning. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 259-263.	1.4	32
44	Spatial and Structured SVM for Multilabel Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, , 1-13.	2.7	31
45	Reconstructing Cloud-Contaminated Multispectral Images With Contextualized Autoencoder Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2270-2282.	2.7	29
46	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
47	Active learning for spectroscopic data regression. Journal of Chemometrics, 2012, 26, 374-383.	0.7	28
48	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
49	A New CNN-RNN Framework For Remote Sensing Image Captioning. , 2020, , .		28
50	Multiclass Coarse Analysis for UAV Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6394-6406.	2.7	26
51	Gaussian Process Approach to Buried Object Size Estimation in GPR Images. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 141-145.	1.4	25
52	COVID-19 Detection in CT/X-ray Imagery Using Vision Transformers. Journal of Personalized Medicine, 2022, 12, 310.	1.1	25
53	Vision System for Automatic On-Tree Kiwifruit Counting and Yield Estimation. Sensors, 2020, 20, 4214.	2.1	23
54	A Novel SVM-Based Decoder for Remote Sensing Image Captioning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	22

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55	Swarm Optimization of Structuring Elements for VHR Image Classification. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1334-1338.	1.4	21
56	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
57	Automatic Detection and Classification of Buried Objects in GPR Images Using Genetic Algorithms and Support Vector Machines. , 2008, , .		20
58	Multilabel Conditional Random Field Classification for UAV Images. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 399-403.	1.4	20
59	Wave Period and Coastal Bathymetry Using Wave Propagation on Optical Images. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6307-6319.	2.7	19
60	Domain Adversarial Neural Networks for Large-Scale Land Cover Classification. Remote Sensing, 2019, 11, 1153.	1.8	19
61	Classification of AAMI heartbeat classes with an interactive ELM ensemble learning approach. Biomedical Signal Processing and Control, 2015, 19, 56-67.	3.5	18
62	Toward an assisted indoor scene perception for blind people with image multilabeling strategies. Expert Systems With Applications, 2015, 42, 2907-2918.	4.4	18
63	Towards Automatic Extraction and Updating of VGI-Based Road Networks Using Deep Learning. Remote Sensing, 2019, 11, 1012.	1.8	18
64	High-Coverage Satellite-Based Coastal Bathymetrythrough a Fusion of Physical and Learning Methods. Remote Sensing, 2019, 11, 376.	1.8	18
65	Swarm Intelligence Approach to Wavelet Design for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 825-829.	1.4	17
66	Land-Cover Classification of Remotely Sensed Images Using Compressive Sensing Having Severe Scarcity of Labeled Patterns. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1257-1261.	1.4	17
67	Capsule Networks for Object Detection in UAV Imagery. Remote Sensing, 2019, 11, 1694.	1.8	17
68	A deep neural network approach to QRS detection using autoencoders. Expert Systems With Applications, 2021, 184, 115528.	4.4	17
69	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
70	Automatic Ground-Truth Validation With Genetic Algorithms for Multispectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2172-2181.	2.7	15
71	Gaussian process regression within an active learning scheme., 2011,,.		15
72	Support vector regression with kernel combination for missing data reconstruction. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 367-371.	1.4	15

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73	Retro-Remote Sensing: Generating Images From Ancient Texts. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 950-960.	2.3	15
74	Optical Image Classification: A Ground-Truth Design Framework. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3580-3597.	2.7	13
75	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
76	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
77	Real-Time Indoor Scene Description for the Visually Impaired Using Autoencoder Fusion Strategies with Visible Cameras. Sensors, 2017, 17, 2641.	2.1	12
78	Leaf Wetness Evaluation Using Artificial Neural Network for Improving Apple Scab Fight. Environments - MDPI, 2017, 4, 42.	1.5	12
79	Point-Based Weakly Supervised Learning for Object Detection in High Spatial Resolution Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5361-5371.	2.3	12
80	Rainfall retrieval and drought monitoring skill of satellite rainfall estimates in the Ethiopian Rift Valley Lakes Basin. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	12
81	Local SVM approaches for fast and accurate classification of remote-sensing images. International Journal of Remote Sensing, 2012, 33, 6186-6201.	1.3	10
82	Scene Description for Visually Impaired People with Multi-Label Convolutional SVM Networks. Applied Sciences (Switzerland), 2019, 9, 5062.	1.3	10
83	Gan-Based Domain Adaptation for Object Classification. , 2018, , .		9
84	Unsupervised Spectral–Spatial Feature Extraction With Generalized Autoencoder for Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 469-473.	1.4	9
85	Car speed estimation method for UAV images. , 2014, , .		8
86	Retrieving Images with Generated Textual Descriptions. , 2019, , .		8
87	Captioning Changes in Bi-Temporal Remote Sensing Images. , 2021, , .		8
88	Improving active learning methods using spatial information. , 2011, , .		7
89	Geometric model for vision-based door detection. , 2014, , .		7
90	Change Detection in Unlabeled Optical Remote Sensing Data Using Siamese CNN. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4178-4187.	2.3	7

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91	Improving Text Encoding for Retro-Remote Sensing. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 622-626.	1.4	7
92	A pattern recognition system for extracting buried object characteristics in GPR images. , 2009, , .		6
93	Fully Convolutional SVM for Car Detection In Uav Imagery. , 2019, , .		6
94	CSVM Architectures for Pixel-Wise Object Detection in High-Resolution Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6059-6070.	2.7	6
95	A robust regression approach for spectrophotometric signal analysis. Journal of Chemometrics, 2012, 26, 400-405.	0.7	5
96	Multilabel classification of UAV images with Convolutional Neural Networks. , 2016, , .		5
97	Semisupervised Two-Level Fusion-Based Autoencoded Approach for Low-Cost Domain Adaptation of Remotely Sensed Images. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1041-1045.	1.4	5
98	New fusion and selection approaches for estimating the remaining useful life using Gaussian process regression and induced ordered weighted averaging operators. Quality and Reliability Engineering International, 2020, 36, 2146-2169.	1.4	5
99	Multiresolution inpainting for reconstruction of missing data in VHR images. , $2011, , .$		4
100	Comparison of different feature detectors and descriptors for car classification in UAV images. , 2013, , .		4
101	LBP-based multiclass classification method for UAV imagery. , 2015, , .		4
102	Spatial contextual Gaussian process learning for remote-sensing image classification. Remote Sensing Letters, 2015, 6, 519-528.	0.6	4
103	An Adversarial Approach to Cross-Sensor Hyperspectral Data Classification. , 2018, , .		4
104	Multi-Scale Convolutional SVM Networks for Multi-Class Classification Problems of Remote Sensing Images. , 2019, , .		4
105	Model-based active learning for SVM classification of remote sensing images. , 2010, , .		3
106	Contextual genetic algorithm for compressive sensing reconstruction of VHR images., 2013,,.		3
107	Feature selection algorithm based on PDF/PMF area difference. Biomedical Signal Processing and Control, 2020, 57, 101681.	3.5	3
108	Retro-Remote Sensing With Doc2Vec Encoding. , 2020, , .		3

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109	Deep Learning Approach For Post-Flood Soil Deformation Mapping Using Insar Data., 2020, , .		3
110	An Active Learning Strategy for SVM-Based Captioning. , 2021, , .		3
111	Optimizing wavelets for hyperspectral image classification. , 2009, , .		2
112	Orthogonal matching pursuit for VHR image reconstruction. , 2012, , .		2
113	An object detection technique for very high resolution remote sensing images. , 2013, , .		2
114	Multilabeling UAV images with Autoencoder networks. , 2017, , .		2
115	New fusion frameworks including explicit weighting functions for the remaining useful life prognostics. Expert Systems With Applications, 2022, 189, 116091.	4.4	2
116	An approach for classifying large scale images. , 2012, , .		1
117	Ground-truth assisted design for remote sensing image classification. , 2011, , .		O
118	Some criteria to assess the reconstructability of shadow areas. , 2012, , .		0
119	Design of a multiblock general regression neural network for wind speed prediction in Algeria. , 2013, , .		0
120	Sparse modeling of the land use classification problem. , 2015, , .		0
121	A fast screening method for detecting cars in UAV images over urban areas. , 2015, , .		0
122	Adaptive wave tracing for coastal bathymetry estimation. , 2016, , .		0
123	Autoencoding approach to the cloud removal problem. , 2017, , .		0
124	Towards Generating Remote Sensing Images of the Far Past., 2019,,.		0
125	Sar Compressed Sensing Based On Gaussian Process Regression. , 2020, , .		0
126	Genetic robust kernel sample selection for chemometric data analysis. Journal of Chemometrics, 2021, 35, e3344.	0.7	0

#	Article	lF	CITATIONS
127	Sar compressed sensing based on Gaussian process regression. International Journal of Remote Sensing, 2021, 42, 5648-5679.	1.3	O