Moussa Sofiane Karoui

List of Publications by Year
in descending order

71 papers	358 citations	1478280 6 h-index	1281743 11 g-index
71 all docs	71 docs citations	71 times ranked	272 citing authors

#	Article	IF	Citations
1	Hypersharpening by an NMF-Unmixing-Based Method Addressing Spectral Variability. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
2	Spectral Unmixing Based Approach for Measuring Gas Flaring from VIIRS NTL Remote Sensing Data: Case of the Flare FIT-M8-101A-1U, Algeria. Remote Sensing, 2022, 14, 2305.	1.8	4
3	A new star detection algorithm based on the combination of thresholding and filtering technique. , 2022, , .		0
4	Hyperspectral Unmixing Based on Constrained Bilinear or Linear-Quadratic Matrix Factorization. Remote Sensing, 2021, 13, 2132.	1.8	7
5	Hypersharpening by a Multiplicative Joint-Criterion NMF Method Addressing Spectral Variability. , 2021, , .		2
6	End-to-End Change Detection in Satellite Remote Sensing Imagery. , 2021, , .		0
7	A New Public Alsat-2B Dataset for Single-Image Super-Resolution. , 2021, , .		3
8	A New Fully Constrained Least Squares-Based Fusion Approach of Optical, Thermal, and SAR Remote Sensing Data for Soil Moisture Content Estimation. , 2021, , .		2
9	A Penalization-Based NMF Approach for Hyperspectral Unmixing Addressing Spectral Variability with an Additively-Tuned Mixing Model. , 2021, , .		5
10	Gradient-Based NMF Methods for Hyperspectral Unmixing Addressing Spectral Variability with a Multiplicative-Tuning Linear Mixing Model. , 2021, , .		4
11	An Informed NMF-Based Unmixing Approach for Mineral Detection and Mapping in the Algerian Central Hoggar Using PRISMA Remote Sensing Hyperspectral Data. , 2021, , .		4
12	Detecting And Mapping Kaolinite In The Algerian Central Hoggar With A Partial Linear Nmf-Based Unmixing Method. , 2020, , .		4
13	Low Resolutions Linear Unmixing-Nmf-Based Change Detection Approaches for Multiresolution Remote Sensing Data. , 2020, , .		0
14	Blind Unmixing of Hyperspectral Remote Sensing Data: A New Geometrical Method Based on a Two-Source Sparsity Constraint. Remote Sensing, 2020, 12, 3198.	1.8	2
15	A Linear NMF-Unmixing-Based Approach Addressing Spectral Variability For Shadow Compensation In Hyperspectral Remote Sensing Data. , 2020, , .		2
16	Multibranch Cnn-Based Pansharpening With Skip Connection. , 2020, , .		4
17	Monitoring And Estimation of The Sustainable Development Goal â€“Fifteen- By Remote Sensing Tools, Assessment of Change in Land Cover (Sub-Indicator 15.3.1), Case of Algeria. , 2020, , .		1
18	Bi-Directional LSTM Model For Classification Of Vegetation From Satellite Time Series. , 2020, , .		4

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19	Unsupervised Hyperspectral Band Selection By Sequentially Clustering A Mahalanobis-Based Dissimilarity Of Spectrally Variable Endmembers. , 2020, , .		5
20	Spectral unmixing using minimum volume constrained Kullbackâ€“Leibler divergence. Journal of Applied Remote Sensing, 2020, 14, 1.	0.6	0
21	An NMF-Based Method For Hyperspectral Unmixing Using A Structured Additively-Tuned Linear Mixing Model To Address Spectral Variability. , 2020, , .		4
22	Partial Linear NMF-Based Unmixing Methods for Detection and Area Estimation of Photovoltaic Panels in Urban Hyperspectral Remote Sensing Data. Remote Sensing, 2019, 11, 2164.	1.8	32
23	IEEE GRSS Algeria Chapter Activities and Perspectives [Chapters]. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 174-177.	4.9	0
24	A Comparative Study of Star Detection Methods for a Satellite-Onboard Star Tracker. , 2019, , .		2
25	Hyperspectral Oceanic Remote Sensing With Adjacency Effects: From Spectral-Variability-Based Modeling To Performance Of Associated Blind Unmixing Methods. , 2019, , .		2
26	An NMF-Based Approach for Hyperspectral Unmixing Using a New Multiplicative-tuning Linear Mixing Model to Address Spectral Variability. , 2019, , .		7
27	An Unmixing-Based Change Detection Approach for Multiresolution Remote Sensing Images. , 2019, , .		2
28	Transfer Learning for Changes Detection in Optical Remote Sensing Imagery. , 2019, , .		4
29	Improving Hyperspectral Image Classification by Combining Spectral and Multiband Compact Texture Features. , 2019, , .		10
30	Gradient-Based Joint-Variables Nonnegative Matrix Factorization for Multi-Sharpening Hyperspectral Remote Sensing Data. , 2019, , .		0
31	Very High Resolution Image Scene Classification with Capsule Network. , 2019, , .		4
32	Extraction of a Specific Land-Cover Class from Very High Spatial Resolution Imagery Using Positive and Unlabeled Learning with Convolutional Neural Networks. , 2019, , .		0
33	Unsupervised hyperspectral band selection by combination of unmixing and sequential clustering techniques. European Journal of Remote Sensing, 2019, 52, 30-39.	1.7	10
34	A pixel-by-pixel NMF-based method for hyperspectral unmixing using a new linear mixing model to address additively-tuned spectral variabilty. , 2019, , .		3
35	Transfering Super Resolution Convolutional Neural Network For Remote Sensing Data Sharpening. , 2018, , .		2
36	Optical Remote Sensing Change Detection Through Deep Siamese Network. , 2018, , .		10

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37	A New Unmixing-Based Approach for Shadow Correction of Hyperspectral Remote Sensing Data. , 2018, , .		3
38	Detection And Area Estimation For Photovoltaic Panels In Urban Hyperspectral Remote Sensing Data By An Original Nmf-Based Unmixing Method. , 2018, , .		8
39	Enhancing the Classification of Remote Sensing Data Using Multiband Compact Texture Unit Descriptor and Deep Convolutional Neural Network. , 2018, , .		2
40	Hyperspectral Imagery for Environmental Urban Planning. , 2018, , .		22
41	Palm Trees Counting in Remote Sensing Imagery Using Regression Convolutional Neural Network. , 2018, , .		7
42	A Dense Vector Matching Approach for Band to Band Registration of Alsat-2 Images. , 2018, , .		2
43	Bilinear Matrix Factorization using a Gradient Method for Unmixing Hyperspectral Images Combinedc with Multispectral Data. , 2018, , .		1
44	Linear-Quadratic NMF-Based Urban Hyperspectral Data Unmixing With Some Known Endmembers. , 2018, , .		1
45	One-dimensional convolution neural networks for object-based feature selection. , 2018, , .		0
46	Hyperspectral and multispectral data fusion based on linear-quadratic nonnegative matrix factorization. Journal of Applied Remote Sensing, 2017, 11, 025008.	0.6	5
47	Classification of Quickbird imagery over urban area using convolutional neural network. , 2017, , .		4
48	Multi-sharpening hyperspectral remote sensing data by Multiplicative Joint-Criterion Linear-Quadratic Nonnegative Matrix Factorization. , 2017, , .		2
49	Modified nonnegative matrix factorization for endmember spectra extraction from highly mixed hyperspectral images combined with multispectral data. , 2017, , .		4
50	Hypersharpening by Joint-Criterion Nonnegative Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1660-1670.	2.7	35
51	Unsupervised Hyperspectral Band Selection by Sequential Clustering. , 2017, , .		4
52	A new multiplicative nonnegative matrix factorization method for unmixing hyperspectral images combined with multispectral data. , 2017, , .		3
53	Pansharpening remotely sensed data by using nonnegative matrix factorization and spectral-spatial degradation models. Proceedings of SPIE, 2016, , .	0.8	0
54	Joint spatial variables nonnegative matrix factorization using constrained gradient method to pansharpen multispectral images. , 2016, , .		1

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55	Bilinear matrix factorization using a gradient method for hyperspectral endmember spectra extraction. , 2016, , .		2
56	Hyperspectral endmember spectra extraction based on constrained linear-quadratic matrix factorization using a projected gradient method. , 2016, , .		4
57	Pansharpening multispectral remote sensing data by multiplicative joint nonnegative matrix factorization. International Journal of Remote Sensing, 2016, 37, 805-818.	1.3	8
58	Hyperspectral data multi-sharpening based on linear-quadratic nonnegative matrix factorization. , 2015, , .		6
59	Local hyperspectral data multisharpening based on linear/linear-quadratic nonnegative matrix factorization by integrating lidar data. Proceedings of SPIE, 2015, , .	0.8	2
60	Blind unmixing of remote sensing data with some pure pixels: Extension and comparison of spatial methods exploiting sparsity and nonnegativity properties. , 2013, , .		8
61	Linear spectral unmixing-based method including extended nonnegative matrix factorization for pan-sharpening multispectral remote sensing images. , 2013, , .		3
62	Modified independent component analysis for initializing non-negative matrix factorization: An approach to hyperspectral image unmixing. , 2013, , .		1
63	Hyperspectral image unmixing by non-negative matrix factorization initialized with modified independent component analysis. , 2013, , .		2
64	Joint nonnegative matrix factorization for hyperspectral and multispectral remote sensing data fusion. , 2013, , .		6
65	Blind spatial unmixing of multispectral images: New methods combining sparse component analysis, clustering and non-negativity constraints. Pattern Recognition, 2012, 45, 4263-4278.	5.1	39
66	A new spatial sparsity-based method for extracting endmember spectra from hyperspectral data with some pure pixels. , 2012, , .		9
67	Spatial sparsity-based blind source separation method including non-negative matrix factorization for multispectral image unmixing. , 2011, , .		0
68	Extraction of stellar spectra from dense fields in hyperspectral muse data cubes using non-negative matrix factorization. , 2011, , .		3
69	Improvement of remote sensing multispectral image classification by using Independent Component Analysis. , 2009, , .		7
70	Contribution of non-negative matrix factorization to the classification of remote sensing images. , 2008, , .		2
71	MULTISPECTRAL AND PANCHROMATIC REGISTRATION OF ALSAT-2 IMAGES USING DENSE VECTOR MATCHING FOR PAN-SHARPENING PROCESS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 149-153.	0.2	1