JosÃ© Bioucas-Dias

List of Publications by Year
in descending order

267 papers	26,534 citations	19657 61 h-index	8630 146 g-index
269 all docs	269 docs citations	269 times ranked	11180 citing authors

#	Article	IF	Citations
1	Hyperspectral Unmixing Overview: Geometrical, Statistical, and Sparse Regression-Based Approaches. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 354-379.	4.9	2,181
2	Vertex component analysis: a fast algorithm to unmix hyperspectral data. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 898-910.	6.3	2,066
3	A New TwIST: Two-Step Iterative Shrinkage/Thresholding Algorithms for Image Restoration. IEEE Transactions on Image Processing, 2007, 16, 2992-3004.	9.8	1,625
4	Hyperspectral Remote Sensing Data Analysis and Future Challenges. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-36.	9.6	1,508
5	Fast Image Recovery Using Variable Splitting and Constrained Optimization. IEEE Transactions on Image Processing, 2010, 19, 2345-2356.	9.8	1,001
6	Hyperspectral Subspace Identification. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2435-2445.	6.3	925
7	An Augmented Lagrangian Approach to the Constrained Optimization Formulation of Imaging Inverse Problems. IEEE Transactions on Image Processing, 2011, 20, 681-695.	9.8	896
8	Sparse Unmixing of Hyperspectral Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2014-2039.	6.3	850
9	Spectralâ€“Spatial Hyperspectral Image Segmentation Using Subspace Multinomial Logistic Regression and Markov Random Fields. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 809-823.	6.3	610
10	Total Variation Spatial Regularization for Sparse Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4484-4502.	6.3	604
11	Hyperspectral Pansharpening: A Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 27-46.	9.6	593
12	A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3373-3388.	6.3	529
13	Majorizationâ€“Minimization Algorithms for Wavelet-Based Image Restoration. IEEE Transactions on Image Processing, 2007, 16, 2980-2991.	9.8	490
14	Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3658-3668.	6.3	488
15	Generalized Composite Kernel Framework for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4816-4829.	6.3	439
16	Phase Unwrapping via Graph Cuts. IEEE Transactions on Image Processing, 2007, 16, 698-709.	9.8	431
17	Alternating direction algorithms for constrained sparse regression: Application to hyperspectral unmixing. , 2010, , .		426
18	Collaborative Sparse Regression for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 341-354.	6.3	381

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19	Hyperspectral Image Segmentation Using a New Bayesian Approach With Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3947-3960.	6.3	368
20	A Signal Processing Perspective on Hyperspectral Unmixing: Insights from Remote Sensing. IEEE Signal Processing Magazine, 2014, 31, 67-81.	5.6	362
21	Fusing Hyperspectral and Multispectral Images via Coupled Sparse Tensor Factorization. IEEE Transactions on Image Processing, 2018, 27, 4118-4130.	9.8	353
22	Semisupervised Hyperspectral Image Segmentation Using Multinomial Logistic Regression With Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2010, , .	6.3	347
23	Restoration of Poissonian Images Using Alternating Direction Optimization. IEEE Transactions on Image Processing, 2010, 19, 3133-3145.	9.8	343
24	Adaptive total variation image deblurring: A majorizationâ€“minimization approach. Signal Processing, 2009, 89, 1683-1693.	3.7	311
25	Does independent component analysis play a role in unmixing hyperspectral data?. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 175-187.	6.3	304
26	A variable splitting augmented Lagrangian approach to linear spectral unmixing. , 2009, , .		298
27	Spectralâ€“Spatial Classification of Hyperspectral Data Using Loopy Belief Propagation and Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 844-856.	6.3	298
28	Multiple Feature Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1592-1606.	6.3	282
29	Multiplicative Noise Removal Using Variable Splitting and Constrained Optimization. IEEE Transactions on Image Processing, 2010, 19, 1720-1730.	9.8	276
30	Minimum Volume Simplex Analysis: A Fast Algorithm to Unmix Hyperspectral Data. , 2008, , .		260
31	Fast Hyperspectral Image Denoising and Inpainting Based on Low-Rank and Sparse Representations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 730-742.	4.9	235
32	Super-resolution of Sentinel-2 images: Learning a globally applicable deep neural network. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 305-319.	11.1	207
33	Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5067-5082.	6.3	165
34	Semisupervised Self-Learning for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4032-4044.	6.3	164
35	Robust Collaborative Nonnegative Matrix Factorization for Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6076-6090.	6.3	162
36	Remotely Sensed Image Classification Using Sparse Representations of Morphological Attribute Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5122-5136.	6.3	157

#	Article	IF	Citations
37	Hyperspectral Super-Resolution of Locally Low Rank Images From Complementary Multisource Data. IEEE Transactions on Image Processing, 2016, 25, 274-288.	9.8	151
38	Bayesian wavelet-based image deconvolution: a GEM algorithm exploiting a class of heavy-tailed priors. IEEE Transactions on Image Processing, 2006, 15, 937-951.	9.8	148
39	Quantifying the Uncertainty of Land Surface Temperature Retrievals From SEVIRI/Meteosat. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 523-534.	6.3	142
40	Semisupervised Hyperspectral Image Classification Using Soft Sparse Multinomial Logistic Regression. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 318-322.	3.1	142
41	A New Pansharpening Method Based on Spatial and Spectral Sparsity Priors. IEEE Transactions on Image Processing, 2014, 23, 4160-4174.	9.8	140
42	Foreword to the Special Issue on Spectral Unmixing of Remotely Sensed Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4103-4110.	6.3	133
43	Wall position and thickness estimation from sequences of echocardiographic images. IEEE Transactions on Medical Imaging, 1996, 15, 25-38.	8.9	125
44	MUSIC-CSR: Hyperspectral Unmixing via Multiple Signal Classification and Collaborative Sparse Regression. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4364-4382.	6.3	123
45	Multiband Image Fusion Based on Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7236-7249.	6.3	119
46	Hyperspectral Unmixing Based on Mixtures of Dirichlet Components. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 863-878.	6.3	116
47	Multiple moving target detection and trajectory estimation using a single SAR sensor. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 604-624.	4.7	115
48	Spectralâ€“Spatial Classification of Hyperspectral Data Using Local and Global Probabilities for Mixed Pixel Characterization. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6298-6314.	6.3	108
49	Pansharpening Based on Semiblind Deconvolution. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1997-2010.	6.3	108
50	Nonlocal Sparse Tensor Factorization for Semiblind Hyperspectral and Multispectral Image Fusion. IEEE Transactions on Cybernetics, 2020, 50, 4469-4480.	9.5	107
51	Nonlinear mixture model for hyperspectral unmixing. Proceedings of SPIE, 2009, , .	0.8	106
52	Parametric Blur Estimation for Blind Restoration of Natural Images: Linear Motion and Out-of-Focus. IEEE Transactions on Image Processing, 2014, 23, 466-477.	9.8	90
53	HYCA: A New Technique for Hyperspectral Compressive Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2819-2831.	6.3	85
54	R-FUSE: Robust Fast Fusion of Multiband Images Based on Solving a Sylvester Equation. IEEE Signal Processing Letters, 2016, 23, 1632-1636.	3.6	84

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55	Regularization Parameter Selection in Minimum Volume Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9858-9877.	6.3	83
56	Velocity estimation of fast moving targets using a single SAR sensor. IEEE Transactions on Aerospace and Electronic Systems, 2005, 41, 75-89.	4.7	81
57	The ZÏ€M algorithm: a method for interferometric image reconstruction in SAR/SAS. IEEE Transactions on Image Processing, 2002, 11, 408-422.	9.8	79
58	Semiblind Hyperspectral Unmixing in the Presence of Spectral Library Mismatches. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5171-5184.	6.3	75
59	Hyperspectral Image Denoising and Anomaly Detection Based on Low-Rank and Sparse Representations. IEEE Transactions on Geoscience and Remote Sensing, 2021, , 1-17.	6.3	75
60	A Discontinuity Preserving Relaxation Scheme for Spectralâ€“Spatial Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 625-639.	4.9	73
61	Near-Infrared Hyperspectral Unmixing Based on a Minimum Volume Criterion for Fast and Accurate Chemometric Characterization of Counterfeit Tablets. Analytical Chemistry, 2010, 82, 1462-1469.	6.5	67
62	Hyperspectral Image Denoising Based on Global and Nonlocal Low-Rank Factorizations. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10438-10454.	6.3	66
63	A Subspace-Based Multinomial Logistic Regression for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 2105-2109.	3.1	65
64	A Convergent Image Fusion Algorithm Using Scene-Adapted Gaussian-Mixture-Based Denoising. IEEE Transactions on Image Processing, 2019, 28, 451-463.	9.8	64
65	Hyperspectral Unmixing in Presence of Endmember Variability, Nonlinearity, or Mismodeling Effects. IEEE Transactions on Image Processing, 2016, 25, 4565-4579.	9.8	63
66	Absolute phase estimation: adaptive local denoising and global unwrapping. Applied Optics, 2008, 47, 5358.	2.1	58
67	Self-Dictionary Sparse Regression for Hyperspectral Unmixing: Greedy Pursuit and Pure Pixel Search Are Related. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1128-1141.	10.8	56
68	Bayesian Hyperspectral Image Segmentation With Discriminative Class Learning. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2151-2164.	6.3	54
69	Image restoration and reconstruction using variable splitting and class-adapted image priors. , 2016, , .		54
70	Moving Targets Processing in SAR Spatial Domain. IEEE Transactions on Aerospace and Electronic Systems, 2007, 43, 864-874.	4.7	52
71	An overview on hyperspectral unmixing: Geometrical, statistical, and sparse regression based approaches. , 2011, , .		52
72	Close Encounters of the Binary Kind: Signal Reconstruction Guarantees for Compressive Hadamard Sampling With Haar Wavelet Basis. IEEE Transactions on Information Theory, 2020, 66, 7253-7273.	2.4	49

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73	Hyperspectral Blind Reconstruction From Random Spectral Projections. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2390-2399.	4.9	48
74	Hyperspectral unmixing algorithm via dependent component analysis. , 2007, , .		47
75	Denoising of medical images corrupted by Poisson noise. , 2008, , .		47
76	Determination of the composition of counterfeit Heptodin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mo>â„¢</mml:mo></mml:math> tablets by near infrared chemical imaging and classical least squares estimation. Analytica Chimica Acta, 2009, 641, 46-51.	5.4	47
77	Fast Hyperspectral Unmixing in Presence of Nonlinearity or Mismodeling Effects. IEEE Transactions on Computational Imaging, 2017, 3, 146-159.	4.4	46
78	Antenna Design and Near-Field Characterization for Medical Microwave Imaging Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4811-4824.	5.1	45
79	A new extended linear mixing model to address spectral variability. , 2014, , .		44
80	A New Low-Rank Representation Based Hyperspectral Image Denoising Method for Mineral Mapping. Remote Sensing, 2017, 9, 1145.	4.0	44
81	Blind Estimation of Motion Blur Parameters for Image Deconvolution. Lecture Notes in Computer Science, 2007, , 604-611.	1.3	44
82	Super-Resolution of Multispectral Multiresolution Images from a Single Sensor. , 2017, , .		42
83	Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2587-2602.	6.3	40
84	An Explicit and Scene-Adapted Definition of Convex Self-Similarity Prior With Application to Unsupervised Sentinel-2 Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3352-3365.	6.3	40
85	Foreword to the Special Issue on Hyperspectral Image and Signal Processing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 347-353.	4.9	38
86	Parallel Hyperspectral Unmixing on GPUs. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 666-670.	3.1	37
87	Nonparametric estimation of mean Doppler and spectral width. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 271-282.	6.3	36
88	Estimation of signal subspace on hyperspectral data. , 2005, , .		36
89	An iterative algorithm for linear inverse problems with compound regularizers. , 2008, , .		36
90	Microwave Breast Imaging Using a Dry Setup. IEEE Transactions on Computational Imaging, 2020, 6, 167-180.	4.4	34

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91	Deconvolution of Poissonian images using variable splitting and augmented Lagrangian optimization. , 2009, , .		32
92	Hyperspectral unmixing: geometrical, statistical, and sparse regression-based approaches. Proceedings of SPIE, 2010, , .	0.8	32
93	Hyperspectral band selection using a collaborative sparse model. , 2012, , .		32
94	Collaborative sparse regression using spatially correlated supports - Application to hyperspectral unmixing. IEEE Transactions on Image Processing, 2015, 24, 5800-5811.	9.8	32
95	Study on the Effect of Pixel Resolution and Blending Grade on Near-Infrared Hyperspectral Unmixing of Tablets. Applied Spectroscopy, 2011, 65, 193-200.	2.2	31
96	On the use of spectral libraries to perform sparse unmixing of hyperspectral data. , 2010, , .		30
97	Fast frame-based image deconvolution using variable splitting and constrained optimization. , 2009, , .		29
98	Recent developments in sparse hyperspectral unmixing. , 2010, , .		29
99	Maximum-a-posteriori estimation with unknown regularisation parameters. , 2015, , .		29
100	Total variation restoration of speckled images using a split-bregman algorithm. , 2009, , .		28
101	Robust Restoration of Sparse Multidimensional Single-Photon LiDAR Images. IEEE Transactions on Computational Imaging, 2020, 6, 138-152.	4.4	27
102	Collaborative nonnegative matrix factorization for remotely sensed hyperspectral unmixing. , 2012, , .		26
103	Laser pulse frequency up-shifts by relativistic ionization fronts. Europhysics Letters, 2004, 66, 371-377.	2.0	25
104	A Dynamic Unmixing Framework for Plant Production System Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2016-2034.	4.9	24
105	Sparse Distributed Multitemporal Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6069-6084.	6.3	24
106	Hyperspectral image denoising based on global and non-local low-rank factorizations. , 2017, , .		24
107	Image Restoration and Reconstruction using Targeted Plug-and-Play Priors. IEEE Transactions on Computational Imaging, 2019, 5, 675-686.	4.4	23
108	Hyperspectral signal subspace estimation. , 2007, , .		22

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109	A Novel Sharpening Approach for Superresolving Multiresolution Optical Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1545-1560.	6.3	22
110	An Alternating Direction Algorithm for Total Variation Reconstruction of Distributed Parameters. IEEE Transactions on Image Processing, 2012, 21, 3004-3016.	9.8	21
111	Adaptive Hyperspectral Mixed Noise Removal. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	20
112	Oil spill segmentation of SAR images via graph cuts. , 2007, , .		19
113	Semi-supervised hyperspectral image classification based on a Markov random field and sparse multinomial logistic regression. , 2009, , .		19
114	Hyperspectral unmixingwith sparse group lasso. , 2011, , .		19
115	Performance measures for classification systems with rejection. Pattern Recognition, 2017, 63, 437-450.	8.1	19
116	Scene-Adapted plug-and-play algorithm with convergence guarantees. , 2017, , .		19
117	An augmented Lagrangian approach to linear inverse problems with compound regularization. , 2010, , .		18
118	Fast Hyperspectral image Denoising based on low rank and sparse representations. , 2016, , .		18
119	Signal and Image Processing in Hyperspectral Remote Sensing [From the Guest Editors]. IEEE Signal Processing Magazine, 2014, 31, 22-23.	5.6	17
120	Hyperspectral Image Super-Resolution via Local Low-Rank and Sparse Representations. , 2018, , .		17
121	Evaluation of bayesian hyperspectral image segmentation with a discriminative class learning. , 2007, , .		16
122	A fast algorithm for the constrained formulation of compressive image reconstruction and other linear inverse problems. , 2010, , .		16
123	Parallel Hyperspectral Coded Aperture for Compressive Sensing on GPUs. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 932-944.	4.9	16
124	Hy-Demosaicing: Hyperspectral Blind Reconstruction From Spectral Subsampling. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	16
125	Two-Step Algorithms for Linear Inverse Problems with Non-Quadratic Regularization. Proceedings International Conference on Image Processing, 2007, , .	0.0	15
126	Hyperspectral image superresolution: An edge-preserving convex formulation. , 2014, , .		15

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127	Alternating direction optimization for image segmentation using hidden Markov measure field models. Proceedings of SPIE, 2014, , .	0.8	15
128	A Framework for Fast Image Deconvolution With Incomplete Observations. IEEE Transactions on Image Processing, 2016, 25, 5266-5280.	9.8	15
129	Nonnegative Blind Source Separation for Ill-Conditioned Mixtures via John Ellipsoid. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2209-2223.	11.3	15
130	CAPE: combinatorial absolute phase estimation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2093.	1.5	14
131	Exploiting spatial information in semi-supervised hyperspectral image segmentation. , 2010, , .		14
132	A new technique for hyperspectral compressive sensing using spectral unmixing. Proceedings of SPIE, 2012, , .	0.8	14
133	Dictionary pruning in sparse unmixing of hyperspectral data. , 2012, , .		14
134	Landmine Detection Using Multispectral Images. IEEE Sensors Journal, 2019, 19, 9341-9351.	4.7	14
135	Unmixing sparse hyperspectral mixtures. , 2009, , .		13
136	Algorithms for imaging inverse problems under sparsity regularization. , 2012, , .		13
137	Introduction to the Issue on Advances in Hyperspectral Data Processing and Analysis. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 961-963.	10.8	13
138	Block-Gaussian-Mixture Priors for Hyperspectral Denoising and Inpainting. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2478-2486.	6.3	13
139	Unmixing hyperspectral intimate mixtures. Proceedings of SPIE, 2010, , .	0.8	12
140	Convex Formulation for Multiband Image Classification With Superpixel-Based Spatial Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2704-2721.	6.3	12
141	Hyperspectral image denoising and anomaly detection based on low-rank and sparse representations. , 2017, , .		12
142	Source Separation and Clustering of Phase-Locked Subspaces. IEEE Transactions on Neural Networks, 2011, 22, 1419-1434.	4.2	11
143	Hyperspectral coded aperture (HYCA): A new technique for hyperspectral compressive sensing. , 2012, , .		11
144	Collaborative sparse unmixing of hyperspectral data. , 2012, , .		11

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145	Sharpening Hyperspectral Images Using Plug-and-Play Priors. Lecture Notes in Computer Science, 2017, , 392-402.	1.3	11
146	Fast Sparse Multinomial Regression Applied to Hyperspectral Data. Lecture Notes in Computer Science, 2006, , 700-709.	1.3	11
147	Effect of Denoising in Band Selection for Regression Tasks in Hyperspectral Datasets. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 473-481.	4.9	10
148	Blind model-based fusion of multi-band and panchromatic images. , 2016, , .		10
149	Hyperspectral cloud shadow removal based on linear unmixing. , 2017, , .		10
150	Discontinuity Preserving Phase Unwrapping Using Graph Cuts. Lecture Notes in Computer Science, 2005, , 268-284.	1.3	9
151	Total variation regulatization in sparse hyperspectral unmixing. , 2011, , .		9
152	Supervised Hyperspectral Image Classification With Rejection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2321-2332.	4.9	9
153	Adaptive Hyperspectral Mixed Noise Removal. , 2018, , .		9
154	Multi-frequency Phase Unwrapping from Noisy Data: Adaptive Local Maximum Likelihood Approach. Lecture Notes in Computer Science, 2009, , 310-320.	1.3	9
155	Two-dimensional collision of probe photons with relativistic ionization fronts. Physical Review E, 2002, 65, 036404.	2.1	8
156	Learning dependent sources using mixtures of Dirichlet: Applications on hyperspectral unmixing. , 2009, , .		8
157	Spectral unmixing via minimum volume simplices: Application to near infrared spectra of counterfeit tablets. , 2009, , .		8
158	Source localization from time-differences of arrival using high-frequency communication signals. , 2011, , .		8
159	Building location awareness into acoustic communication links and networks through channel delay estimation. , 2012, , .		8
160	Supervised hyperspectral image segmentation: A convex formulation using hidden fields. , 2014, , .		8
161	Image restoration with locally selected class-adapted models. , 2016, , .		8
162	A hierarchical approach to superresolution of multispectral images with different spatial resolutions. , 2017, , .		8

#	Article	IF	Citations
163	Dictionary Learning Phase Retrieval from Noisy Diffraction Patterns. Sensors, 2018, 18, 4006.	3.8	8
164	Supervised hyperspectral image segmentation using active learning. , 2010, , .		7
165	Semi-supervised hyperspectral image classification using a new (soft) sparse multinomial logistic regression model. , 2011, , .		7
166	A new framework for hyperspectral image classification using multiple spectral and spatial features. , 2014, , .		7
167	Wavefront reconstruction in phase-shifting interferometry via sparse coding of amplitude and absolute phase. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1801.	1.5	7
168	A Special Issue on Advances in Machine Learning for Remote Sensing and Geosciences [From the Guest Editors]. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 5-7.	9.6	7
169	Class-specific poisson denoising by patch-based importance sampling. , 2017, , .		7
170	Improving point cloud to surface reconstruction with generalized Tikhonov regularization. , 2017, , .		7
171	Hy-Demosaicing: Hyperspectral Blind Reconstruction from Spectral Subsampling. , 2018, , .		7
172	External Patch-Based Image Restoration Using Importance Sampling. IEEE Transactions on Image Processing, 2019, 28, 4460-4470.	9.8	7
173	Segmentation and Detection of Colorectal Polyps Using Local Polynomial Approximation. Lecture Notes in Computer Science, 2012, , 188-197.	1.3	7
174	Reconstruction of Backscatter and Extinction Coefficients in Lidar: A Stochastic Filtering Approach. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 443-456.	6.3	6
175	Minimum total variation in 3D ultrasound reconstruction. , 2005, , .		6
176	A new semi-supervised algorithm for hyperspectral image classification based on spectral unmixing concepts. , 2011, , .		6
177	Semi-supervised active learning for urban hyperspectral image classification. , 2012, , .		6
178	Parallel sparse unmixing of hyperspectral data. , 2013, , .		6
179	Classification with reject option using contextual information. , 2013, , .		6
180	Asymptotically efficient estimation of spectral moments. IEEE Transactions on Signal Processing, 1995, 43, 2222-2225.	5.3	5

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181	Independent component analysis applied to unmixing hyperspectral data. , 2004, , .		5
182	Dependent Component Analysis: A Hyperspectral Unmixing Algorithm. Lecture Notes in Computer Science, 2007, , 612-619.	1.3	5
183	New developments on VCA unmixing algorithm. Proceedings of SPIE, 2008, , .	0.8	5
184	Semi-supervised hyperspectral image segmentation. , 2009, , .		5
185	Separation of phase-locked sources in pseudo-real MEG data. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.7	5
186	Supervised hyperspectral image classification with rejection. , 2015, , .		5
187	Hyperspectral compressive acquisition in the spatial domain via blind factorization. , 2015, , .		5
188	Hyperspectral image reconstruction from random projections on GPU. , 2016, , .		5
189	Class-specific image denoising using importance sampling. , 2017, , .		5
190	Hyperspectral image inpainting based on low-rank representation: A case study on Tiangong-1 data. , 2017, , .		5
191	Bayesian Hyperspectral Image Segmentation with Discriminative Class Learning. Lecture Notes in Computer Science, 2007, , 22-29.	1.3	5
192	Efficient computation of tr{TR-1} for Toeplitz matrices. IEEE Signal Processing Letters, 2002, 9, 54-56.	3.6	4
193	Phase unwrapping: a new max-flow/min-cut based approach. , 2005, , .		4
194	Quantification of Components in Non-Homogenous Pharmaceutical Tablets Using near Infrared Reflectance Imaging. Journal of Near Infrared Spectroscopy, 2010, 18, 333-340.	1.5	4
195	Frame-based deconvolution of Poissonian images using alternating direction optimization. , 2010, , .		4
196	Parallel implementation of vertex component analysis for hyperspectral endmember extraction. , 2012, , .		4
197	A new semi-supervised approach for hyperspectral image classification with different active learning strategies. , 2012, , .		4
198	Semi-supervised discriminative random field for hyperspectral image classification. , 2012, , .		4

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199	Spectral-spatial classification for hyperspectral data using SVM and subspace MLR. , 2013, , .		4
200	Phase imaging via sparse coding in the complex domain based on high-order svd and nonlocal BM3D techniques. , 2014, , .		4
201	Potential and limitations of band selection and library pruning in sparse hyperspectral unmixing. , 2015, , .		4
202	A fast parallel hyperspectral coded aperture algorithm for compressive sensing using OpenCL. , 2015, , .		4
203	Hyperspectral image classification based on union of subspaces. , 2015, , .		4
204	Convex formulation for hyperspectral image classification with superpixels. , 2016, , .		4
205	Spatial-spectral hyperspectral image compressive sensing. , 2017, , .		4
206	Sparseâ€coding denoising applied to reversible conformational switching of a porphyrin selfâ€assembled monolayer induced by scanning tunnelling microscopy. Journal of Microscopy, 2018, 271, 98-108.	1.8	4
207	Robust Cardiac Motion Estimation With Dictionary Learning and Temporal Regularization for Ultrasound Imaging. , 2019, , .		4
208	Semi-supervised hyperspectral classification using active label selection. Proceedings of SPIE, 2009, , .	0.8	3
209	Identification and matching of sparse Delay-Doppler Spread Functions from high-frequency communications signals. , 2010, , .		3
210	Comparison of near infrared and Raman hyperspectral unmixing performances for chemical identification of pharmaceutical tablets. , 2011, , .		3
211	Non-cyclic deconvolution using an augmented lagrangian method. , 2011, , .		3
212	Phase Drift Estimation and Symbol Detection in Digital Communications: A Stochastic Recursive Filtering Approach. IEEE Communications Letters, 2012, 16, 854-857.	4.1	3
213	Vertex component analysis GPU-based implementation for hyperspectral unmixing. , 2012, , .		3
214	Spectral partitioning for hyperspectral remote sensing image classification. , 2014, , .		3
215	Digital phase-shifting holography based on sparse approximation of phase and amplitude. , 2014, , .		3
216	SegSALSA-STR: A convex formulation to supervised hyperspectral image segmentation using hidden fields and structure tensor regularization. , 2015, , .		3

#	Article	IF	Citations
217	Hyperspectral compressive sensing from spectral projections. , 2015, , .		3
218	Sparse distributed hyperspectral unmixing. , 2016, , .		3
219	SURE-Fuse WFF: A Multi-Resolution Windowed Fourier Analysis for Interferometric Phase Denoising. IEEE Access, 2019, 7, 120708-120723.	4.2	3
220	Feature Selection in Regression Tasks Using Conditional Mutual Information. Lecture Notes in Computer Science, 2011, , 224-231.	1.3	3
221	Semisupervised Discriminative Random Field for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 12403-12414.	4.9	3
222	Phase Unwrapping via Graph Cuts. Lecture Notes in Computer Science, 2005, , 360-367.	1.3	2
223	Blind hyperspectral unmixing. Proceedings of SPIE, 2007, , .	0.8	2
224	Independent Phase Analysis: Separating Phase-Locked Subspaces. Lecture Notes in Computer Science, 2010, , 189-196.	1.3	2
225	Investigating Counterfeit Medicinesâ€"The near Infrared Chemical Imaging Picture. NIR News, 2011, 22, 10-18.	0.3	2
226	A new subspace discriminant analysis approach for supervised hyperspectral image classification. , 2011, , .		2
227	Nonnegative matrix factorization with collaborativity for hyperspectral unmixing. , 2012, , .		2
228	A robust subspace method for semiblind dictionary-aided hyperspectral unmixing. , 2014, , .		2
229	B-HYCA: Blind hyperspectral compressive sensing. , 2015, , .		2
230	GPU implementation of a hyperspectral coded aperture algorithm for compressive sensing. , 2015, , .		2
231	Uncertainty propagation from atmospheric parameters to sparse hyperspectral unmixing. , 2016, , .		2
232	Does Nonlinear Modeling Play a Role in Plasmid Bioprocess Monitoring Using Fourier Transform Infrared Spectra?. Applied Spectroscopy, 2017, 71, 1148-1156.	2.2	2
233	Multi-superpixelization-based convex formulation for joint classification of hyperspectral and lidar data. , 2017, , .		2
234	Matrix cofactorization for joint representation learning and supervised classification â€“ Application to hyperspectral image analysis. Neurocomputing, 2020, 385, 132-147.	5.9	2

#	Article	IF	Citations
235	The Role of Whitening for Separation of Synchronous Sources. Lecture Notes in Computer Science, 2012, , 139-146.	1.3	2
236	Fast unsupervised extraction of endmembers spectra from hyperspectral data. Proceedings of SPIE, 2004, 5239, 314.	0.8	1
237	Reply to the Comments on â€œNear-Infrared Hyperspectral Unmixing Based on a Minimum Volume Criterion for Fast and Accurate Chemometric Characterization of Counterfeit Tabletsâ€• Analytical Chemistry, 2010, 82, 8753-8754.	6.5	1
238	A comparison of algorithms for separation of synchronous subspaces. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2012, 60, 455-460.	0.8	1
239	Wavefront segmentation and classification for model-based underwater high-frequency tomography. , 2012, , .		1
240	Phase-Locked Matrix Factorization with Estimation of the Common Oscillation. Springer Proceedings in Mathematics and Statistics, 2013, , 51-66.	0.2	1
241	Parallel method for sparse semisupervised hyperspectral unmixing. Proceedings of SPIE, 2013, , .	0.8	1
242	On the use of collaborative sparse regression in hyperspectral unmixing chains. , 2014, , .		1
243	Robust hyperspectral image classification with rejection fields. , 2015, , .		1
244	Bayesian image segmentation using hidden fields: Supervised, unsupervised, and semi-supervised formulations. , 2016, , .		1
245	A new classification-oriented endmember extraction and sparse unmixing approach for hyperspectral data. , 2017, , .		1
246	Restoration of Multilayered Single-Photon 3D Lidar Images. , 2018, , .		1
247	A Fast GEM Algorithm for Bayesian Wavelet-Based Image Restoration Using a Class of Heavy-Tailed Priors. Lecture Notes in Computer Science, 2003, , 407-420.	1.3	1
248	Bayesian Oil Spill Segmentation of SAR Images Via Graph Cuts. Lecture Notes in Computer Science, 2007, , 637-644.	1.3	1
249	Phase unwrapping via diversity and graph cuts. , 2008, , .		0
250	Adaptive Local Phase Approximations and Global Unwrapping. , 2008, , .		0
251	Integration of Hyperspectral Image Classification and Unmixing for Active Learning. , 2011, , .		0
252	Performance analysis of model-based localization of high-frequency acoustic sources in 3D. , 2013, , .		0

#	Article	IF	Citations
253	Plant production system monitoring via multiple signal classification and sparse regression. , 2013, , .		0
254	Separation of Synchronous Sources Through Phase Locked Matrix Factorization. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1894-1908.	11.3	0
255	GPU implementation of a constrained hyperspectral coded aperture algorithm for compressive sensing. , 2015, , .		0
256	Robust collaborative nonnegative matrix factorization for hyperspectra unmixing (R-CONMF). , 2015, , .		0
257	An analysis of collaborative representation schemes for the classification of hyperspectral images. , 2015, , .		0
258	Classification of vegetation types in military region. Proceedings of SPIE, 2015, , .	0.8	0
259	Robust hyperspectral unmixing accounting for residual components. , 2016, , .		0
260	Nonlinear hyperspectral unmixing accounting for spatial illumination variability. , 2016, , .		0
261	Fast hyperspectral unmixing in presence of sparse multiple scattering nonlinearities. , 2017, , .		0
262	Sharpening Hyperspectral Images Using Spatial and Spectral Priors in a Plug-and-Play Algorithm. Lecture Notes in Computer Science, 2018, , 358-371.	1.3	0
263	An Extension of Averaged-Operator-Based algorithms. , 2018, , .		0
264	Joint Reconstruction of Multitemporal or Multispectral Single-Photon 3D LiDAR Images. , 2019, , .		0
265	Matrix Cofactorization for Joint Unmixing and Classification of Hyperspectral Images. , 2019, , .		0
266	Class-Specific Interferometric Phase Estimation Using Patch-Based Importance Sampling. IEEE Access, 2020, 8, 161052-161066.	4.2	0
267	Parallel Coded Aperture Method for Hyperspectral Compressive Sensing on GPU. , 2017, , 313-328.		0