James E Fowler

List of Publications by Year
in descending order

68 papers	2,315 citations	331670 21 h-index	395702 33 g-index
68 all docs	68 docs citations	68 times ranked	1721 citing authors

#	Article	IF	Citations
1	Multiscale Spatial-Spectral Feature Extraction Network for Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4640-4652.	4.9	3
2	Hypergraph-Regularized Low-Rank Subspace Clustering Using Superpixels for Unsupervised Spatialâ€"Spectral Hyperspectral Classification. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 871-875.	3.1	15
3	Hyperspectral Restoration and Fusion With Multispectral Imagery via Low-Rank Tensor-Approximation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7817-7830.	6.3	34
4	Wavelet-Domain Low-Rank/Group-Sparse Destriping for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10310-10321.	6.3	28
5	Hyperspectral Stripes Removal With Wavelet-Domain Low-Rank/Group-Sparse Decomposition. , 2019, , .		1
6	Spatial Functional Data Analysis for the Spatialâ€"Spectral Classification of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 942-946.	3.1	9
7	Spatial Logistic Regression for Support-Vector Classification of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 439-443.	3.1	17
8	Random Hadamard Projections for Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 419-423.	3.1	5
9	Random-projection-based nonnegative least squares for hyperspectral image unmixing. , 2016, , .		3
10	Hadamard-Walsh random projection for hyperspectral image classification. , 2016, , .		6
11	Orthogonal Nonnegative Matrix Factorization Combining Multiple Features for Spectralâ€"Spatial Dimensionality Reduction of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4272-4286.	6.3	27
12	Fast SVD With Random Hadamard Projection for Hyperspectral Dimensionality Reduction. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1275-1279.	3.1	33
13	Hyperspectral classification using a composite kernel driven by nearest-neighbor spatial features. , 2015, , .		13
14	Decentralized reconstruction from compressive random projections driven by principal components. , 2015, , .		1
15	Compressive pushbroom and whiskbroom sensing for hyperspectral remote-sensing imaging. , 2014, , .		41
16	Compressive data fusion for multi-sensor image analysis. , 2014, , .		4
17	Hyperspectral Image Classification Using Gaussian Mixture Models and Markov Random Fields. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 153-157.	3.1	132
18	Reconstruction of Hyperspectral Imagery From Random Projections Using Multihypothesis Prediction. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 365-374.	6.3	47

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19	Decision Fusion in Kernel-Induced Spaces for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3399-3411.	6.3	60
20	An Operational Approach to PCA+JPEG2000 Compression of Hyperspectral Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2237-2245.	4.9	35
21	Spectralâ€"Spatial Preprocessing Using Multihypothesis Prediction for Noise-Robust Hyperspectral Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1047-1059.	4.9	65
22	Classification Based on 3-D DWT and Decision Fusion for Hyperspectral Image Analysis. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 173-177.	3.1	44
23	Integration of Spectralâ€"Spatial Information for Hyperspectral Image Reconstruction From Compressive Random Projections. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1379-1383.	3.1	14
24	Noise-Adjusted Subspace Discriminant Analysis for Hyperspectral Imagery Classification. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1374-1378.	3.1	23
25	Motion-compensated compressed-sensing reconstruction for dynamic MRI. , 2013, , .		5
26	Classification and Reconstruction From Random Projections for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 833-843.	6.3	34
27	Reconstruction From Random Projections of Hyperspectral Imagery With Spectral and Spatial Partitioning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 466-472.	4.9	25
28	Locality-preserving nonnegative matrix factorization for hyperspectral image classification. , 2012, , .		4
29	Locality-preserving discriminant analysis for hyperspectral image classification using local spatial information. , 2012, , .		4
30	An operational approach for hyperspectral image compression. , 2012, , .		2
31	Single-image super-resolution using multihypothesis prediction. , 2012, , .		21
32	Noise-adjusted subspace linear discriminant analysis for hyperspectral-image classification. , 2012, , .		4
33	Noise-adjusted sparsity-preserving-based dimensionality reduction for hyperspectral image classification. , 2012, , .		0
34	Anomaly Detection and Reconstruction From Random Projections. IEEE Transactions on Image Processing, 2012, 21, 184-195.	9.8	92
35	Hyperspectral Image Compression Using Segmented Principal Component Analysis. , 2012, , 233-251.		1
36	Residual Reconstruction for Block-Based Compressed Sensing of Video. , 2011, , .		122

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37	Class dependent compressive-projection principal component analysis for hyperspectral image reconstruction. , 2011, , .		3
38	Decoder-side dimensionality determination for compressive-projection principal component analysis of hyperspectral data. , 2011, , .		5
39	Multitemporal Hyperspectral Image Compression. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 416-420.	3.1	20
40	Locality-Preserving Discriminant Analysis in Kernel-Induced Feature Spaces for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 894-898.	3.1	105
41	Random-projection-based dimensionality reduction and decision fusion for hyperspectral target detection. , 2011, , .		9
42	Video Compressed Sensing with Multihypothesis. , 2011, , .		63
43	Compressed-sensing recovery of images and video using multihypothesis predictions. , 2011, , .		150
44	A multi-modal pattern classification framework for hyperspectral image analysis. , 2011, , .		1
45	Reconstructions from Compressive Random Projections of Hyperspectral Imagery. , 2011, , 31-48.		16
46	On the performance of random-projection-based dimensionality reduction for endmember extraction. , 2010, , .		4
47	Block Compressed Sensing of Images Using Directional Transforms. , 2010, , .		113
48	Compressive-Projection Principal Component Analysis and the First Eigenvector. , 2009, , .		4
49	Block compressed sensing of images using directional transforms. , 2009, , .		32
50	On the Impact of Atmospheric Correction on Lossy Compression of Multispectral and Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 130-132.	6.3	23
51	Compressive-Projection Principal Component Analysis. IEEE Transactions on Image Processing, 2009, 18, 2230-2242.	9.8	141
52	Evaluation of JP3D for lossy and lossless compression of hyperspectral imagery. , 2009, , .		7
53	Anomaly-Based JPEG2000 Compression of Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 696-700.	3.1	27
54	Lossy-to-Lossless Compression of Hyperspectral Imagery Using Three-Dimensional TCE and an Integer KLT. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 814-818.	3.1	43

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55	Low-Complexity Principal Component Analysis for Hyperspectral Image Compression. International Journal of High Performance Computing Applications, 2008, 22, 438-448.	3.7	103
56	Anomaly-Based Hyperspectral Image Compression. , 2008, , .		3
57	Compressive-Projection Principal Component Analysis for the Compression of Hyperspectral Signatures. Proceedings of the Data Compression Conference, 2008, , .	0.0	8
58	Improvements to 3D-Tarp Coding for the Compression of Hyperspectral Imagery. , 2008, , .		3
59	Spectral-decorrelation strategies for the compression of hyperspectral imagery. , 2007, , .		0
60	Video Coding Using a Complex Wavelet Transform and Set Partitioning. IEEE Signal Processing Letters, 2007, 14, 633-636.	3.6	10
61	Hyperspectral image compression with the 3D dual-tree wavelet transform. , 2007, , .		5
62	A Modified BISK Algorithm for 3D Dual-TreeWavelet Transform Coding. , 2007, , .		0
63	Implementation of Low-Complexity Principal Component Analysis for Remotely Sensed Hyperspectral-Image Compression. Signal Processing Systems Design and Implementation (siPS), IEEE Workshop on, 2007, , .	0.0	7
64	Hyperspectral Image Compression Using JPEG2000 and Principal Component Analysis. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 201-205.	3.1	359
65	Rotated Constellations for Video Transmission Over Rayleigh Fading Channels. IEEE Signal Processing Letters, 2007, 14, 629-632.	3.6	4
66	Motion Compensation Via Redundant-Wavelet Multihypothesis. IEEE Transactions on Image Processing, 2006, 15, 3102-3113.	9.8	8
67	Video Coding with Wavelet-Domain Conditional Replenishment and Unequal Error Protection. , 2006, , .		3
68	Three-Dimensional Wavelet-Based Compression of Hyperspectral Imagery. , 0, , 379-407.		62