Chein-I Chang

List of Publications by Citations

207 papers	7,331 citations	41 h-index	81 g-index
258 ext. papers	8,883 ext. citations	5.9 avg, IF	6.82 L-index

#	Paper	IF	Citations
207	Estimation of number of spectrally distinct signal sources in hyperspectral imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2004**, 42, 608-619	8.1	592
206	Independent component analysis-based dimensionality reduction with applications in hyperspectral image analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2006**, 44, 1586-1600	8.1	387
205	A joint band prioritization and band-decorrelation approach to band selection for hyperspectral image classification. *IEEE Transactions on Geoscience and Remote Sensing*, **1999**, 37, 2631-2641	8.1	375
204	An information-theoretic approach to spectral variability, similarity, and discrimination for hyperspectral image analysis. *IEEE Transactions on Information Theory*, **2000**, 46, 1927-1932	2.8	322
203	Constrained band selection for hyperspectral imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2006**, 44, 1575-1585	8.1	311
202	Anomaly detection and classification for hyperspectral imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2002**, 40, 1314-1325	8.1	308
201	. *IEEE Transactions on Aerospace and Electronic Systems*, **2003**, 39, 1232-1249	3.7	263
200	New hyperspectral discrimination measure for spectral characterization. *Optical Engineering*, **2004**, 43, 1777	1.1	254
199	**2013**,		237
198	Constrained subpixel target detection for remotely sensed imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2000**, 38, 1144-1159	8.1	217
197	A fast iterative algorithm for implementation of pixel purity index. *IEEE Geoscience and Remote Sensing Letters*, **2006**, 3, 63-67	4.1	179
196	Orthogonal subspace projection (OSP) revisited: a comprehensive study and analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2005**, 43, 502-518	8.1	169
195	Semi-Supervised Linear Spectral Unmixing Using a Hierarchical Bayesian Model for Hyperspectral Imagery. *IEEE Transactions on Signal Processing*, **2008**, 56, 2684-2695	4.8	125
194	A linear constrained distance-based discriminant analysis for hyperspectral image classification. *Pattern Recognition*, **2001**, 34, 361-373	7.7	102
193	Multiparameter Receiver Operating Characteristic Analysis for Signal Detection and Classification. *IEEE Sensors Journal*, **2010**, 10, 423-442	4	92
192	Unsupervised hyperspectral image analysis with projection pursuit. *IEEE Transactions on Geoscience and Remote Sensing*, **2000**, 38, 2529-2538	8.1	90
191	A quantitative and comparative analysis of linear and nonlinear spectral mixture models using radial basis function neural networks. *IEEE Transactions on Geoscience and Remote Sensing*, **2001**, 39, 2314-2318	8.1	83

190	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2011**, 4, 545-564	4.7	81
189	A comparative study for orthogonal subspace projection and constrained energy minimization. *IEEE Transactions on Geoscience and Remote Sensing*, **2003**, 41, 1525-1529	8.1	80
188	An experiment-based quantitative and comparative analysis of target detection and image classification algorithms for hyperspectral imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2000**, 38, 1044-1063	8.1	79
187	Real-time processing algorithms for target detection and classification in hyperspectral imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2001**, 39, 760-768	8.1	76
186	Spectral information divergence for hyperspectral image analysis		72
185	A Simplified 2D-3D CNN Architecture for Hyperspectral Image Classification Based on Spatial-Spectral Fusion. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2020**, 13, 2485-2501	4.7	71
184	Linear spectral random mixture analysis for hyperspectral imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2002**, 40, 375-392	8.1	69
183	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2013**, 6, 644-658	4.7	68
182	Target signature-constrained mixed pixel classification for hyperspectral imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2002**, 40, 1065-1081	8.1	68
181	A posteriori least squares orthogonal subspace projection approach to desired signature extraction and detection. *IEEE Transactions on Geoscience and Remote Sensing*, **1997**, 35, 127-139	8.1	61
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179	A generalized orthogonal subspace projection approach to unsupervised multispectral image classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2000**, 38, 2515-2528	8.1	56
178	Real-Time Progressive Hyperspectral Image Processing **2016**,		56
177	Three-Dimensional Wavelet-Based Compression of Hyperspectral Imagery379-407		52
176	Weighted abundance-constrained linear spectral mixture analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2006**, 44, 378-388	8.1	50
175	. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 5093-5114	8.1	49
174	Progressive Band Selection of Spectral Unmixing for Hyperspectral Imagery. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 2002-2017	8.1	49
173	. *IEEE Transactions on Geoscience and Remote Sensing*, **2010**, 48, 1834-1850	8.1	48

172	Maximum Orthogonal Subspace Projection Approach to Estimating the Number of Spectral Signal Sources in Hyperspectral Imagery. *IEEE Journal on Selected Topics in Signal Processing*, **2011**, 5, 504-520	7.5	46
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170	. *IEEE Transactions on Aerospace and Electronic Systems*, **2006**, 42, 1372-1385	3.7	45
169	Random N-finder (N-FINDR) endmember extraction algorithms for hyperspectral imagery. *IEEE Transactions on Image Processing*, **2011**, 20, 641-56	8.7	44
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167	An Effective Evaluation Tool for Hyperspectral Target Detection: 3D Receiver Operating Characteristic Curve Analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 5131-5153	8.1	43
166	. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 8131-8143	8.1	41
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164	. *IEEE Transactions on Aerospace and Electronic Systems*, **2014**, 50, 1511-1534	3.7	39
163	Further results on relationship between spectral unmixing and subspace projection. *IEEE Transactions on Geoscience and Remote Sensing*, **1998**, 36, 1030-1032	8.1	37
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161	. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 14-31	8.1	35
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159	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 4280-4306	4.7	33
158	A signal-decomposed and interference-annihilated approach to hyperspectral target detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2004**, 42, 892-906	8.1	33
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156	3-D Receiver Operating Characteristic Analysis for Hyperspectral Image Classification. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 8093-8115	8.1	31
155	. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 4887-4898	8.1	29

154	Random Pixel Purity Index. *IEEE Geoscience and Remote Sensing Letters*, **2010**, 7, 324-328	4.1	29
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150	A COMPUTER-AIDED SYSTEM FOR MASS DETECTION AND CLASSIFICATION IN DIGITIZED MAMMOGRAMS. *Biomedical Engineering - Applications, Basis and Communications*, **2005**, 17, 215-228	0.6	28
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146	A fast two-stage classification method for high-dimensional remote sensing data. *IEEE Transactions on Geoscience and Remote Sensing*, **1998**, 36, 182-191	8.1	27
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144	Classification of Tree Species in Overstorey Canopy of Subtropical Forest Using QuickBird Images. *PLoS ONE*, **2015**, 10, e0125554	3.7	26
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135	A Kalman filtering approach to multispectral image classification and detection of changes in signature abundance. *IEEE Transactions on Geoscience and Remote Sensing*, **1999**, 37, 257-268	8.1	22
134	Band-Specified Virtual Dimensionality for Band Selection: An Orthogonal Subspace Projection Approach. *IEEE Transactions on Geoscience and Remote Sensing*, **2018**, 56, 2822-2832	8.1	21
133	Progressive dimensionality reduction by transform for hyperspectral imagery. *Pattern Recognition*, **2011**, 44, 2760-2773	7.7	21
132	Sequential N-FINDR algorithms **2008**,		21
131	Orthogonal Subspace Projection-Based Go-Decomposition Approach to Finding Low-Rank and Sparsity Matrices for Hyperspectral Anomaly Detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 2403-2429	8.1	21
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129	Hyperspectral Band Selection for Spectral–Spatial Anomaly Detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 3426-3436	8.1	19
128	Discriminative Feature Learning With Distance Constrained Stacked Sparse Autoencoder for Hyperspectral Target Detection. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 1462-1466	4.1	18
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122	Fisher's linear spectral mixture analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2006**, 44, 2292-2304	8.1	15
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119	Kernel-Based Linear Spectral Mixture Analysis. *IEEE Geoscience and Remote Sensing Letters*, **2012**, 9, 129-133	4.1	14

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108	Orthogonal Subspace Projection Using Data Sphering and Low-Rank and Sparse Matrix Decomposition for Hyperspectral Target Detection. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 8704-8722	8.1	12
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104	Image segmentation by local entropy methods		11
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93	Applications of Kalman Filtering to Single Hyperspectral Signature Analysis. *IEEE Sensors Journal*, **2010**, 10, 547-563	4	8
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91	Variants of Principal Components Analysis **2007**,		8
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88	. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 3780-3793	8.1	8
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79	A unified theory for target-specified virtual dimensionality of hyperspectral imagery **2012**,		6
78	Multiple-Window Anomaly Detection for Hyperspectral Imagery **2008**,		6
77	Unsupervised hyperspectral image analysis using independent component analysis		6
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73	Exploration of virtual dimensionality in hyperspectral image analysis **2006**,		5
72	Discrimination and identification for subpixel targets in hyperspectral imagery		5
71	An unsupervised approach to color video thresholding **2003**,		5
70	Unsupervised Domain Adaptation With Dense-Based Compaction for Hyperspectral Imagery. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2021**, 14, 12287-12299	4.7	5
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60	An Iterative Random Training Sample Selection Approach to Constrained Energy Minimization for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 18, 1625-1629	4.1	4
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43	N-FINDER for Finding Endmembers in Compressively Sensed Band Domain. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 1087-1101	8.1	2
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41	Magnetic resonance brain tissue classification and volume calculation **2015**, 38, 1055-1066		2
40	Progressive hyperspectral imaging **2012**,		2
39	Real-time processing of simplex growing algorithm **2009**,		2
38	Hyperspectral Data Representation205-225		2
37	Optimal Band Selection and Utility Evaluation for Spectral Systems227-243		2
36	A nested spatial window-based approach to target detection for hyperspectral imagery		2
35	A new application of texture unit coding to mass classification for mammograms		2
34	How to effectively utilize information to design hyperspectral target detection and classification algorithms		2
33	Relative entropy-based methods for image thresholding		2
32	A linear mixture analysis-based compression for hyperspectral image analysis		2
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18	A PYRAMID-BASED BLOCK OF SKEWERS FOR PIXEL PURITY INDEX FOR ENDMEMBER EXTRACTION IN HYPERSPECTRAL IMAGERY. *International Journal of High Speed Electronics and Systems*, **2008**, 18, 469-482	0.5	1
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10	Optical Remote Sensing Image Registration Using Spatial-Consistency and Average Regional Information Divergence Minimization via Quantum-Behaved Particle Swarm Optimization. *Remote Sensing*, **2020**, 12, 3066	5	1
9	Uniform Band Interval Divided Band Selection **2019**,		1
8	Iterative Random Training Sample Selection for Hyperspectral Image Classification **2019**,		1
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