

Johannes R Sveinsson

List of Publications by Year in descending order

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115
papers

6,915
citations

186209

28
h-index

175177

52
g-index

116
all docs

116
docs citations

116
times ranked

5671
citing authors

#	ARTICLE	IF	CITATIONS
1	Random Forests for land cover classification. Pattern Recognition Letters, 2006, 27, 294-300.	2.6	1,610
2	Classification of hyperspectral data from urban areas based on extended morphological profiles. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 480-491.	2.7	1,189
3	Spectral and Spatial Classification of Hyperspectral Data Using SVMs and Morphological Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3804-3814.	2.7	930
4	Multispectral and Hyperspectral Image Fusion Using a 3-D-Convolutional Neural Network. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 639-643.	1.4	250
5	Multiple classifiers applied to multisource remote sensing data. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2291-2299.	2.7	244
6	A New Pansharpening Algorithm Based on Total Variation. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 318-322.	1.4	237
7	Parallel consensual neural networks. IEEE Transactions on Neural Networks, 1997, 8, 54-64.	4.8	151
8	Hyperspectral Unmixing Using a Neural Network Autoencoder. IEEE Access, 2018, 6, 25646-25656.	2.6	139
9	Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2652-2663.	2.7	135
10	Convolutional Autoencoder for Spectral-Spatial Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 535-549.	2.7	123
11	Mapping of hyperspectral AVIRIS data using machine-learning algorithms. Canadian Journal of Remote Sensing, 2009, 35, S106-S116.	1.1	120
12	Automatic Spectral-Spatial Classification Framework Based on Attribute Profiles and Supervised Feature Extraction. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5771-5782.	2.7	100
13	Hyperspectral Feature Extraction Using Total Variation Component Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6976-6985.	2.7	97
14	Feature extraction for multisource data classification with artificial neural networks. International Journal of Remote Sensing, 1997, 18, 727-740.	1.3	96
15	A classifier ensemble based on fusion of support vector machines for classifying hyperspectral data. International Journal of Image and Data Fusion, 2010, 1, 293-307.	0.8	89
16	Classification and feature extraction of AVIRIS data. IEEE Transactions on Geoscience and Remote Sensing, 1995, 33, 1194-1205.	2.7	79
17	Quantitative Quality Evaluation of Pansharpened Imagery: Consistency Versus Synthesis. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1247-1259.	2.7	70
18	Classification of Pansharpened Urban Satellite Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 281-297.	2.3	69

#	ARTICLE	IF	CITATIONS
19	Spectral and spatial classification of hyperspectral data using SVMs and morphological profiles. , 2007, , .		64
20	Hyperspectral Image Denoising Using First Order Spectral Roughness Penalty in Wavelet Domain. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2458-2467.	2.3	63
21	Wavelet-Based Sparse Reduced-Rank Regression for Hyperspectral Image Restoration. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6688-6698.	2.7	60
22	Model-Based Satellite Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1336-1346.	2.7	58
23	Hyperspectral Unmixing With ℓ_1/ℓ_2 Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6793-6806.	2.7	56
24	Hyperspectral image denoising using 3D wavelets. , 2012, , .		49
25	MTF-Based Deblurring Using a Wiener Filter for CS and MRA Pansharpening Methods. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2255-2269.	2.3	46
26	Blind Hyperspectral Unmixing Using Total Variation and ℓ_1/ℓ_2 Sparse Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6371-6384.	2.7	41
27	Sentinel-2 Image Fusion Using a Deep Residual Network. Remote Sensing, 2018, 10, 1290.	1.8	41
28	Sentinel-2 Sharpening Using a Reduced-Rank Method. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6408-6420.	2.7	36
29	Model-Based Reduced-Rank Pansharpening. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 656-660.	1.4	36
30	Blind Hyperspectral Unmixing Using Autoencoders: A Critical Comparison. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1340-1372.	2.3	36
31	Spectral-Spatial Hyperspectral Unmixing Using Multitask Learning. IEEE Access, 2019, 7, 148861-148872.	2.6	27
32	Hyperspectral Subspace Identification Using SURE. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2481-2485.	1.4	25
33	Sparse Distributed Multitemporal Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6069-6084.	2.7	24
34	Hyperspectral Image Denoising Using SURE-Based Unsupervised Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3369-3382.	2.7	24
35	Neural network hyperspectral unmixing with spectral information divergence objective. , 2017, , .		23
36	Creating RGB Images from Hyperspectral Images Using a Color Matching Function. , 2020, , .		23

#	ARTICLE	IF	CITATIONS
37	Data fusion and feature extraction in the wavelet domain. <i>International Journal of Remote Sensing</i> , 2003, 24, 3933-3945.	1.3	22
38	Classification of Big Data With Application to Imaging Genetics. <i>Proceedings of the IEEE</i> , 2016, 104, 2137-2154.	16.4	21
39	Convolutional Autoencoder for Spatial-Spectral Hyperspectral Unmixing. , 2019, , .		21
40	Classifying Remote Sensing Data with Support Vector Machines and Imbalanced Training Data. <i>Lecture Notes in Computer Science</i> , 2009, , 375-384.	1.0	21
41	Parallel principal component neural networks for classification of event-related potential waveforms. <i>Medical Engineering and Physics</i> , 1997, 19, 15-20.	0.8	20
42	Improved 3D reconstruction in smart-room environments using ToF imaging. <i>Computer Vision and Image Understanding</i> , 2010, 114, 1376-1384.	3.0	20
43	Combined wavelet and curvelet denoising of SAR images using TV segmentation. , 2007, , .		17
44	Hyperspectral image denoising using a new linear model and Sparse Regularization. , 2013, , .		13
45	A Comparison of Optimized Sentinel-2 Super-Resolution Methods Using Wald's Protocol and Bayesian Optimization. <i>Remote Sensing</i> , 2021, 13, 2192.	1.8	13
46	Hyperspectral Image Denoising Using Spectral-Spatial Transform-Based Sparse and Low-Rank Representations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-25.	2.7	13
47	Multistage classifiers optimized by neural networks and genetic algorithms. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997, 30, 1323-1334.	0.6	12
48	Combined Wavelet and Contourlet Denoising of SAR Images. , 2008, , .		12
49	Total variation based hyperspectral feature extraction. , 2014, , .		12
50	Ensemble Methods for Classification of Hyperspectral Data. , 2008, , .		11
51	SAR image denoising using total variation based regularization with sure-based optimization of the regularization parameter. , 2012, , .		11
52	Sentinel-2 Sharpening Using a Single Unsupervised Convolutional Neural Network With MTF-Based Degradation Model. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 6882-6896.	2.3	11
53	Unsupervised and Supervised Feature Extraction Methods for Hyperspectral Images Based on Mixtures of Factor Analyzers. <i>Remote Sensing</i> , 2020, 12, 1179.	1.8	9
54	Separately balanced realization of two-dimensional separable-denominator transfer functions. <i>International Journal of Systems Science</i> , 1987, 18, 419-425.	3.7	8

#	ARTICLE	IF	CITATIONS
55	Single Sensor Image Fusion Using A Deep Convolutional Generative Adversarial Network. , 2018, , .		8
56	Blind Sparse Nonlinear Hyperspectral Unmixing Using an ℓ_1 Penalty. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1907-1911.	1.4	8
57	Ensemble Strategies for Classifying Hyperspectral Remote Sensing Data. Lecture Notes in Computer Science, 2009, , 62-71.	1.0	7
58	Wavelet based hyperspectral image restoration using spatial and spectral penalties. Proceedings of SPIE, 2013, , .	0.8	7
59	Model based pansharpening method based on TV and MTF deblurring. , 2015, , .		7
60	Consensus Based Classification of Multisource Remote Sensing Data. Lecture Notes in Computer Science, 2000, , 280-289.	1.0	7
61	Speckle reduction of SAR images using sure-based adaptive Sigmoid thresholding in the wavelet domain. , 2009, , .		6
62	Smooth spectral unmixing using total variation regularization and a first order roughness penalty. , 2013, , .		6
63	Semi-supervised hyperspectral unmixing. , 2014, , .		6
64	Optimal Component Substitution and Multi-Resolution Analysis Pansharpening Methods Using a Convolutional Neural Network. , 2019, , .		6
65	Feature Selection for Morphological Feature Extraction using Randomforests. , 2006, , .		5
66	A new pansharpening method using an explicit image formation model regularized via Total Variation. , 2012, , .		5
67	Sure based model selection for hyperspectral imaging. , 2014, , .		5
68	A smooth hyperspectral unmixing method using cyclic descent. , 2012, , .		4
69	Hyperspectral image restoration using wavelets. Proceedings of SPIE, 2013, , .	0.8	4
70	Smooth and sparse hyperspectral unmixing using an ℓ_1 penalty. , 2013, , .		4
71	Endmember constrained semi-supervised hyperspectral unmixing. , 2014, , .		4
72	Model-Based Hand Gesture Tracking in ToF Image Sequences. Lecture Notes in Computer Science, 2010, , 118-127.	1.0	4

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73	Classification of remote sensing imagery with high spatial resolution. , 2005, , .		3
74	Spectrally Consistent Satellite Image Fusion with Improved Image Priors. , 2006, , .		3
75	Combined Curvelet and Wavelet Denoising. , 2006, , .		3
76	Feature Selection for Morphological Feature Extraction using Random Forests. , 2006, , .		3
77	Speckle Reduction of SAR Images in the Bandlet Domain. , 2008, , .		3
78	First order roughness penalty for hyperspectral image denoising. , 2013, , .		3
79	Wavelet based sparse Principal Component Analysis for hyperspectral denoising. , 2013, , .		3
80	Hyperspectral image denoising using a sparse low rank model and dual-tree complex wavelet transform. , 2014, , .		3
81	Sparse distributed hyperspectral unmixing. , 2016, , .		3
82	Parameter Estimation For Blind $l_{q/p}$ Hyperspectral Unmixing Using Bayesian Optimization. , 2018, , .		3
83	Mixtures of Factor Analyzers and Deep Mixtures of Factor Analyzers Dimensionality Reduction Algorithms For Hyperspectral Images Classification. , 2019, , .		3
84	Multitask Learning for Spatial-Spectral Hyperspectral Unmixing. , 2019, , .		3
85	Zero-Shot Sentinel-2 Sharpening Using a Symmetric Skipped Connection Convolutional Neural Network. , 2020, , .		3
86	Sure Based Convolutional Neural Networks for Hyperspectral Image Denoising. , 2020, , .		3
87	Synthetic Hyperspectral Images With Controllable Spectral Variability and Ground Truth. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	3
88	Review of applications of wavelets in speckle reduction and enhancement of SAR images . , 2002, 4541, 47.		2
89	Fusion of multisource data sets from agricultural areas for improved land cover classification. , 2009, , .		2
90	Pansharpening via sparsity optimization using overcomplete transforms. , 2013, , .		2

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91	Model based PCA/wavelet fusion of multispectral and hyperspectral images. , 2014, , .		2
92	Sparse Gaussian noisy independent component analysis. , 2014, , .		2
93	Distributed dyadic cyclic descent for non-negative matrix factorization. , 2016, , .		2
94	(Semi-) Supervised Mixtures of Factor Analyzers and Deep Mixtures of Factor Analyzers Dimensionality Reduction Algorithms For Hyperspectral Images Classification. , 2019, , .		2
95	Tuning Parameter Selection for Sentinel-2 Sharpening Using Wald's Protocol. , 2021, , .		2
96	Fusing Sentinel-2 Satellite Images and Aerial RGB Images. , 2021, , .		2
97	Local Spatial-Spectral Correlation Based Mixtures of Factor Analyzers for Hyperspectral Denoising. , 2020, , .		2
98	<title>Optimized combination, regularization, and pruning in parallel consensual neural networks</title>. , 1998, , .		1
99	Smoothing of Fused Spectral Consistent Satellite Images. , 2006, , .		1
100	Smoothing of fused spectral consistent satellite images with TV-based edge detection. , 2007, , .		1
101	Image fusion for classification of high resolution images based on mathematical morphology. , 2010, , .		1
102	Sparse and low rank hyperspectral unmixing. , 2017, , .		1
103	Semi-Supervised Mixtures of Factor Analyzers Feature Extraction for Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
104	Wavelet-Based Block Low-Rank Representations for Hyperspectral Denoising. , 2021, , .		1
105	Hyperspectral Images Denoising Based on Mixtures of Factor Analyzers. , 2020, , .		1
106	On spatial priors for satellite image fusio. , 2007, , .		0
107	Speckle reduction of TerraSAR-X imagery using TV segmentation. , 2009, , .		0
108	Sparse representation of hyperspectral data using CUR matrix decomposition. , 2013, , .		0

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109	MTF-deblurring preprocessing for CS and MRA pansharpener methods. , 2015, , .		0
110	Total variation and ℓ_1/ℓ_2 based hyperspectral unmixing for feature extraction and classification. , 2015, , .		0
111	Fast multitemporal hyperspectral unmixing. , 2017, , .		0
112	Single Sensor Image Fusion Using a Deep Residual Network. , 2018, , .		0
113	Weighted Blind ℓ_1/ℓ_2 Hyperspectral Unmixing. , 2019, , .		0
114	Sharpening the 20 M Bands of SENTINEL-2 Image Using an Unsupervised Convolutional Neural Network. , 2021, , .		0
115	Non-Local Means Low-Rank Approximation for Hyperspectral Denoising. , 2021, , .		0