

Jean-Yves Tournaret

List of Publications by Year in descending order

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65
papers

4,095
citations

186265

28
h-index

138484

58
g-index

65
all docs

65
docs citations

65
times ranked

2801
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperspectral Pansharpening: A Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 27-46.	9.6	593
2	Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3658-3668.	6.3	488
3	Nonlinear Unmixing of Hyperspectral Images: Models and Algorithms. IEEE Signal Processing Magazine, 2014, 31, 82-94.	5.6	362
4	Joint Bayesian Endmember Extraction and Linear Unmixing for Hyperspectral Imagery. IEEE Transactions on Signal Processing, 2009, 57, 4355-4368.	5.3	299
5	Ship and Oil-Spill Detection Using the Degree of Polarization in Linear and Hybrid/Compact Dual-Pol SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 885-892.	4.9	195
6	Bayesian Fusion of Multi-Band Images. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1117-1127.	10.8	193
7	Bayesian Estimation of Linear Mixtures Using the Normal Compositional Model. Application to Hyperspectral Imagery. IEEE Transactions on Image Processing, 2010, 19, 1403-1413.	9.8	167
8	Hyperspectral Unmixing With Spectral Variability Using a Perturbed Linear Mixing Model. IEEE Transactions on Signal Processing, 2016, 64, 525-538.	5.3	146
9	Enhancing Hyperspectral Image Unmixing With Spatial Correlations. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4239-4247.	6.3	119
10	Multiband Image Fusion Based on Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7236-7249.	6.3	119
11	Unsupervised Post-Nonlinear Unmixing of Hyperspectral Images Using a Hamiltonian Monte Carlo Algorithm. IEEE Transactions on Image Processing, 2014, 23, 2663-2675.	9.8	110
12	A Survey of Stochastic Simulation and Optimization Methods in Signal Processing. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 224-241.	10.8	93
13	Spectral Variability in Hyperspectral Data Unmixing: A comprehensive review. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 223-270.	9.6	92
14	Residual Component Analysis of Hyperspectral Images – Application to Joint Nonlinear Unmixing and Nonlinearity Detection. IEEE Transactions on Image Processing, 2014, 23, 2148-2158.	9.8	84
15	Bayesian 3D Reconstruction of Complex Scenes from Single-Photon Lidar Data. SIAM Journal on Imaging Sciences, 2019, 12, 521-550.	2.2	70
16	Hierarchical Bayesian Sparse Image Reconstruction With Application to MRFM. IEEE Transactions on Image Processing, 2009, 18, 2059-2070.	9.8	59
17	Estimating the Number of Endmembers in Hyperspectral Images Using the Normal Compositional Model and a Hierarchical Bayesian Algorithm. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 582-591.	10.8	56
18	Unsupervised Unmixing of Hyperspectral Images Accounting for Endmember Variability. IEEE Transactions on Image Processing, 2015, 24, 4904-4917.	9.8	53

#	ARTICLE	IF	CITATIONS
19	Segmentation of Skin Lesions in 2-D and 3-D Ultrasound Images Using a Spatially Coherent Generalized Rayleigh Mixture Model. IEEE Transactions on Medical Imaging, 2012, 31, 1509-1520.	8.9	52
20	Adaptive Markov Random Fields for Joint Unmixing and Segmentation of Hyperspectral Images. IEEE Transactions on Image Processing, 2013, 22, 5-16.	9.8	51
21	Multipath Mitigation for GNSS Positioning in an Urban Environment Using Sparse Estimation. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1316-1328.	8.0	47
22	Generalized isolation forest for anomaly detection. Pattern Recognition Letters, 2021, 149, 109-119.	4.2	43
23	Anomaly detection in mixed telemetry data using a sparse representation and dictionary learning. Signal Processing, 2020, 168, 107320.	3.7	41
24	Unsupervised Nonlinear Spectral Unmixing Based on a Multilinear Mixing Model. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4534-4544.	6.3	39
25	A Tensor Factorization Method for 3-D Super Resolution With Application to Dental CT. IEEE Transactions on Medical Imaging, 2019, 38, 1524-1531.	8.9	34
26	Online Unmixing of Multitemporal Hyperspectral Images Accounting for Spectral Variability. IEEE Transactions on Image Processing, 2016, 25, 3979-3990.	9.8	32
27	Joint Segmentation and Deconvolution of Ultrasound Images Using a Hierarchical Bayesian Model Based on Generalized Gaussian Priors. IEEE Transactions on Image Processing, 2016, 25, 3736-3750.	9.8	32
28	Motion Estimation in Echocardiography Using Sparse Representation and Dictionary Learning. IEEE Transactions on Image Processing, 2018, 27, 64-77.	9.8	30
29	Spectral Image Fusion From Compressive Measurements. IEEE Transactions on Image Processing, 2019, 28, 2271-2282.	9.8	25
30	Bayesian Estimation of Smooth Altimetric Parameters: Application to Conventional and Delay/Doppler Altimetry. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2207-2219.	6.3	22
31	Detecting, estimating and correcting multipath biases affecting GNSS signals using a marginalized likelihood ratio-based method. Signal Processing, 2016, 118, 221-234.	3.7	22
32	Sequential beat-to-beat P and T wave delineation and waveform estimation in ECG signals: Block Gibbs sampler and marginalized particle filter. Signal Processing, 2014, 104, 174-187.	3.7	21
33	Toward a Sparse Bayesian Markov Random Field Approach to Hyperspectral Unmixing and Classification. IEEE Transactions on Image Processing, 2017, 26, 426-438.	9.8	21
34	Spectral Image Fusion From Compressive Measurements Using Spectral Unmixing and a Sparse Representation of Abundance Maps. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5043-5053.	6.3	21
35	Estimating the Intrinsic Dimension of Hyperspectral Images Using a Noise-Whitened Eigengap Approach. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3811-3821.	6.3	20
36	Bayesian 3D Reconstruction of Subsampled Multispectral Single-Photon Lidar Signals. IEEE Transactions on Computational Imaging, 2020, 6, 208-220.	4.4	19

#	ARTICLE	IF	CITATIONS
37	Outlier Detection at the Parcel-Level in Wheat and Rapeseed Crops Using Multispectral and SAR Time Series. <i>Remote Sensing</i> , 2021, 13, 956.	4.0	19
38	Robust Optical Flow Estimation in Cardiac Ultrasound Images Using a Sparse Representation. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 741-752.	8.9	18
39	A Hierarchical Bayesian Model Accounting for Endmember Variability and Abrupt Spectral Changes to Unmix Multitemporal Hyperspectral Images. <i>IEEE Transactions on Computational Imaging</i> , 2018, 4, 32-45.	4.4	17
40	Classification of linear and non-linear modulations using the Baum-Welch algorithm and MCMC methods. <i>Signal Processing</i> , 2010, 90, 3242-3255.	3.7	13
41	An EM-based multipath interference mitigation in GNSS receivers. <i>Signal Processing</i> , 2019, 162, 141-152.	3.7	13
42	Anomaly Detection and Classification in Multispectral Time Series Based on Hidden Markov Models. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-11.	6.3	13
43	Pairwise likelihood estimation for multivariate mixed Poisson models generated by Gamma intensities. <i>Statistics and Computing</i> , 2009, 19, 283-301.	1.5	12
44	Echo Cancellation – The Generalized Likelihood Ratio Test For Double-Talk Versus Channel Change. <i>IEEE Transactions on Signal Processing</i> , 2009, 57, 916-926.	5.3	12
45	Hypersphere Fitting From Noisy Data Using an EM Algorithm. <i>IEEE Signal Processing Letters</i> , 2021, 28, 314-318.	3.6	12
46	A Bayesian Nonparametric Model Coupled with a Markov Random Field for Change Detection in Heterogeneous Remote Sensing Images. <i>SIAM Journal on Imaging Sciences</i> , 2016, 9, 1889-1921.	2.2	11
47	How to introduce expert feedback in one-class support vector machines for anomaly detection?. <i>Signal Processing</i> , 2021, 188, 108197.	3.7	10
48	Estimating the polarization degree of polarimetric images in coherent illumination using maximum likelihood methods. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009, 26, 1348.	1.5	9
49	Restoration of ultrasound images using a hierarchical Bayesian model with a generalized Gaussian prior. , 2014, , .		8
50	Fusion of Magnetic Resonance and Ultrasound Images for Endometriosis Detection. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 5324-5335.	9.8	7
51	Ultrasound Image Deconvolution Using Fundamental and Harmonic Images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 993-1006.	3.0	7
52	Reconstruction of Sentinel-2 derived time series using robust Gaussian mixture models – Application to the detection of anomalous crop development. <i>Computers and Electronics in Agriculture</i> , 2022, 198, 106983.	7.7	6
53	Nonlinear regression using smooth Bayesian estimation. , 2015, , .		5
54	Preconditioned P-U-LA for Joint Deconvolution-Segmentation of Ultrasound Images. <i>IEEE Signal Processing Letters</i> , 2019, 26, 1456-1460.	3.6	5

#	ARTICLE	IF	CITATIONS
55	A variational marginalized particle filter for jump Markov nonlinear systems with unknown transition probabilities. <i>Signal Processing</i> , 2021, 188, 108226.	3.7	5
56	Partially Asynchronous Distributed Unmixing of Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 2009-2021.	6.3	4
57	A Bayesian Framework for Multivariate Multifractal Analysis. <i>IEEE Transactions on Signal Processing</i> , 2022, 70, 3663-3675.	5.3	4
58	Masses of Negative Multinomial Distributions: Application to Polarimetric Image Processing. <i>Journal of Probability and Statistics</i> , 2013, 2013, 1-13.	0.7	3
59	Restoration of ultrasonic images using non-linear system identification and deconvolution. , 2018, , .		3
60	A Hybrid Lower Bound for Parameter Estimation of Signals With Multiple Change-Points. <i>IEEE Transactions on Signal Processing</i> , 2019, 67, 1267-1279.	5.3	3
61	A New Decision-Theory-Based Framework for Echo Canceler Control. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 4304-4314.	5.3	2
62	Unbiased Group-Sparsity Sensing Using Quadratic Envelopes. , 2019, , .		2
63	Cardiac Motion Estimation Using Convolutional Sparse Coding. , 2019, , .		1
64	Robust Hypersphere Fitting from Noisy Data Using an EM Algorithm. , 2021, , .		1
65	Cardiac motion estimation with dictionary learning and robust sparse coding in ultrasound imaging. , 2018, , .		0