

Jean-Yves Tournet

List of Publications by Year in descending order

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4,095
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186265

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65
times ranked

2801
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomaly Detection and Classification in Multispectral Time Series Based on Hidden Markov Models. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	13
2	Reconstruction of Sentinel-2 derived time series using robust Gaussian mixture models – Application to the detection of anomalous crop development. Computers and Electronics in Agriculture, 2022, 198, 106983.	7.7	6
3	A Bayesian Framework for Multivariate Multifractal Analysis. IEEE Transactions on Signal Processing, 2022, 70, 3663-3675.	5.3	4
4	Ultrasound Image Deconvolution Using Fundamental and Harmonic Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 993-1006.	3.0	7
5	Outlier Detection at the Parcel-Level in Wheat and Rapeseed Crops Using Multispectral and SAR Time Series. Remote Sensing, 2021, 13, 956.	4.0	19
6	Generalized isolation forest for anomaly detection. Pattern Recognition Letters, 2021, 149, 109-119.	4.2	43
7	A variational marginalized particle filter for jump Markov nonlinear systems with unknown transition probabilities. Signal Processing, 2021, 188, 108226.	3.7	5
8	How to introduce expert feedback in one-class support vector machines for anomaly detection?. Signal Processing, 2021, 188, 108197.	3.7	10
9	Hypersphere Fitting From Noisy Data Using an EM Algorithm. IEEE Signal Processing Letters, 2021, 28, 314-318.	3.6	12
10	Spectral Variability in Hyperspectral Data Unmixing: A comprehensive review. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 223-270.	9.6	92
11	Robust Hypersphere Fitting from Noisy Data Using an EM Algorithm. , 2021, , .		1
12	Anomaly detection in mixed telemetry data using a sparse representation and dictionary learning. Signal Processing, 2020, 168, 107320.	3.7	41
13	Bayesian 3D Reconstruction of Subsampled Multispectral Single-Photon Lidar Signals. IEEE Transactions on Computational Imaging, 2020, 6, 208-220.	4.4	19
14	Fusion of Magnetic Resonance and Ultrasound Images for Endometriosis Detection. IEEE Transactions on Image Processing, 2020, 29, 5324-5335.	9.8	7
15	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
16	Preconditioned P-UULA for Joint Deconvolution-Segmentation of Ultrasound Images. IEEE Signal Processing Letters, 2019, 26, 1456-1460.	3.6	5
17	An EM-based multipath interference mitigation in GNSS receivers. Signal Processing, 2019, 162, 141-152.	3.7	13
18	Bayesian 3D Reconstruction of Complex Scenes from Single-Photon Lidar Data. SIAM Journal on Imaging Sciences, 2019, 12, 521-550.	2.2	70

#	ARTICLE	IF	CITATIONS
19	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
20	Cardiac Motion Estimation Using Convolutional Sparse Coding. , 2019, , .		1
21	Unbiased Group-Sparsity Sensing Using Quadratic Envelopes. , 2019, , .		2
22	Robust Optical Flow Estimation in Cardiac Ultrasound Images Using a Sparse Representation. IEEE Transactions on Medical Imaging, 2019, 38, 741-752.	8.9	18
23	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
24	A Hybrid Lower Bound for Parameter Estimation of Signals With Multiple Change-Points. IEEE Transactions on Signal Processing, 2019, 67, 1267-1279.	5.3	3
25	Partially Asynchronous Distributed Unmixing of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2009-2021.	6.3	4
26	Spectral Image Fusion From Compressive Measurements. IEEE Transactions on Image Processing, 2019, 28, 2271-2282.	9.8	25
27	Motion Estimation in Echocardiography Using Sparse Representation and Dictionary Learning. IEEE Transactions on Image Processing, 2018, 27, 64-77.	9.8	30
28	Cardiac motion estimation with dictionary learning and robust sparse coding in ultrasound imaging. , 2018, , .		0
29	Restoration of ultrasonic images using non-linear system identification and deconvolution. , 2018, , .		3
30	A New Decision-Theory-Based Framework for Echo Canceler Control. IEEE Transactions on Signal Processing, 2018, 66, 4304-4314.	5.3	2
31	A Hierarchical Bayesian Model Accounting for Endmember Variability and Abrupt Spectral Changes to Unmix Multitemporal Hyperspectral Images. IEEE Transactions on Computational Imaging, 2018, 4, 32-45.	4.4	17
32	Unsupervised Nonlinear Spectral Unmixing Based on a Multilinear Mixing Model. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4534-4544.	6.3	39
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	A Bayesian Nonparametric Model Coupled with a Markov Random Field for Change Detection in Heterogeneous Remote Sensing Images. SIAM Journal on Imaging Sciences, 2016, 9, 1889-1921.	2.2	11
35	Multiband Image Fusion Based on Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 7236-7249.	6.3	119
36	Online Unmixing of Multitemporal Hyperspectral Images Accounting for Spectral Variability. IEEE Transactions on Image Processing, 2016, 25, 3979-3990.	9.8	32

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	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
41	Hyperspectral Unmixing With Spectral Variability Using a Perturbed Linear Mixing Model. IEEE Transactions on Signal Processing, 2016, 64, 525-538.	5.3	146
42	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
43	Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3658-3668.	6.3	488
44	Nonlinear regression using smooth Bayesian estimation. , 2015, , .		5
45	Hyperspectral Pansharpening: A Review. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 27-46.	9.6	593
46	Bayesian Fusion of Multi-Band Images. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1117-1127.	10.8	193
47	Unsupervised Unmixing of Hyperspectral Images Accounting for Endmember Variability. IEEE Transactions on Image Processing, 2015, 24, 4904-4917.	9.8	53
48	Nonlinear Unmixing of Hyperspectral Images: Models and Algorithms. IEEE Signal Processing Magazine, 2014, 31, 82-94.	5.6	362
49	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
50	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
51	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
52	Restoration of ultrasound images using a hierarchical Bayesian model with a generalized Gaussian prior. , 2014, , .		8
53	Adaptive Markov Random Fields for Joint Unmixing and Segmentation of Hyperspectral Images. IEEE Transactions on Image Processing, 2013, 22, 5-16.	9.8	51
54	Masses of Negative Multinomial Distributions: Application to Polarimetric Image Processing. Journal of Probability and Statistics, 2013, 2013, 1-13.	0.7	3

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55	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
56	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
57	Enhancing Hyperspectral Image Unmixing With Spatial Correlations. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4239-4247.	6.3	119
58	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
59	Classification of linear and non-linear modulations using the Baum-Welch algorithm and MCMC methods. Signal Processing, 2010, 90, 3242-3255.	3.7	13
60	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
61	Pairwise likelihood estimation for multivariate mixed Poisson models generated by Gamma intensities. Statistics and Computing, 2009, 19, 283-301.	1.5	12
62	Estimating the polarization degree of polarimetric images in coherent illumination using maximum likelihood methods. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 1348.	1.5	9
63	Echo Cancellation – The Generalized Likelihood Ratio Test For Double-Talk Versus Channel Change. IEEE Transactions on Signal Processing, 2009, 57, 916-926.	5.3	12
64	Joint Bayesian Endmember Extraction and Linear Unmixing for Hyperspectral Imagery. IEEE Transactions on Signal Processing, 2009, 57, 4355-4368.	5.3	299
65	Hierarchical Bayesian Sparse Image Reconstruction With Application to MRFM. IEEE Transactions on Image Processing, 2009, 18, 2059-2070.	9.8	59