Jordi Jmm MuÃ±oz-MarÃ-

List of Publications by Year
in descending order

99 papers	**5,926** citations	117625 **34** h-index	123424 **61** g-index
114 all docs	**114** docs citations	**114** times ranked	**5470** citing authors

#	Article	IF	Citations
1	Composite Kernels for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 93-97.	3.1	956
2	Optical remote sensing and the retrieval of terrestrial vegetation bio-geophysical properties â€" A review. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 108, 273-290.	11.1	482
3	A Survey of Active Learning Algorithms for Supervised Remote Sensing Image Classification. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 606-617.	10.8	439
4	Inferring causation from time series in Earth system sciences. Nature Communications, 2019, 10, 2553.	12.8	411
5	Kernel-Based Framework for Multitemporal and Multisource Remote Sensing Data Classification and Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1822-1835.	6.3	315
6	Experimental Sentinel-2 LAI estimation using parametric, non-parametric and physical retrieval methods â€" A comparison. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 108, 260-272.	11.1	267
7	Semisupervised Image Classification With Laplacian Support Vector Machines. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 336-340.	3.1	237
8	Semisupervised One-Class Support Vector Machines for Classification of Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3188-3197.	6.3	211
9	A Survey on Gaussian Processes for Earth-Observation Data Analysis: A Comprehensive Investigation. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 58-78.	9.6	172
10	A unified vegetation index for quantifying the terrestrial biosphere. Science Advances, 2021, 7, .	10.3	160
11	A Support Vector Domain Description Approach to Supervised Classification of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2683-2692.	6.3	149
12	Toward a Semiautomatic Machine Learning Retrieval of Biophysical Parameters. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1249-1259.	4.9	98
13	Retrieval of oceanic chlorophyll concentration with relevance vector machines. Remote Sensing of Environment, 2006, 105, 23-33.	11.0	89
14	Hyperspectral dimensionality reduction for biophysical variable statistical retrieval. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 132, 88-101.	11.1	86
15	Multitemporal Cloud Masking in the Google Earth Engine. Remote Sensing, 2018, 10, 1079.	4.0	84
16	On the Impact of Lossy Compression on Hyperspectral Image Classification and Unmixing. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 253-257.	3.1	82
17	Support Vector Machines for Nonlinear Kernel ARMA System Identification. IEEE Transactions on Neural Networks, 2006, 17, 1617-1622.	4.2	81
18	Semisupervised Classification of Remote Sensing Images With Active Queries. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3751-3763.	6.3	81

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19	Graph Matching for Adaptation in Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 329-341.	6.3	81
20	Prediction of Daily Global Solar Irradiation Using Temporal Gaussian Processes. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1936-1940.	3.1	79
21	Divisive normalization image quality metric revisited. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 852.	1.5	76
22	Emulation of Leaf, Canopy and Atmosphere Radiative Transfer Models for Fast Global Sensitivity Analysis. Remote Sensing, 2016, 8, 673.	4.0	73
23	Derivation of global vegetation biophysical parameters from EUMETSAT Polar System. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 139, 57-74.	11.1	68
24	Physics-aware Gaussian processes in remote sensing. Applied Soft Computing Journal, 2018, 68, 69-82.	7.2	67
25	Multispectral high resolution sensor fusion for smoothing and gap-filling in the cloud. Remote Sensing of Environment, 2020, 247, 111901.	11.0	67
26	Fusing optical and SAR time series for LAI gap filling with multioutput Gaussian processes. Remote Sensing of Environment, 2019, 235, 111452.	11.0	64
27	Synergistic integration of optical and microwave satellite data for crop yield estimation. Remote Sensing of Environment, 2019, 234, 111460.	11.0	63
28	An Emulator Toolbox to Approximate Radiative Transfer Models with Statistical Learning. Remote Sensing, 2015, 7, 9347-9370.	4.0	61
29	Active Learning Methods for Efficient Hybrid Biophysical Variable Retrieval. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1012-1016.	3.1	60
30	Biophysical Parameter Estimation With a Semisupervised Support Vector Machine. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 248-252.	3.1	55
31	Nonlinear Statistical Retrieval of Atmospheric Profiles From MetOp-IASI and MTG-IRS Infrared Sounding Data. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1759-1769.	6.3	50
32	Remote sensing image segmentation by active queries. Pattern Recognition, 2012, 45, 2180-2192.	8.1	48
33	SCOPE-Based Emulators for Fast Generation of Synthetic Canopy Reflectance and Sun-Induced Fluorescence Spectra. Remote Sensing, 2017, 9, 927.	4.0	41
34	Cloud masking and removal in remote sensing image time series. Journal of Applied Remote Sensing, 2017, 11, 015005.	1.3	37
35	Nonlinear System Identification With Composite Relevance Vector Machines. IEEE Signal Processing Letters, 2007, 14, 279-282.	3.6	28
36	Land cover classification of VHR airborne images for citrus grove identification. ISPRS Journal of Photogrammetry and Remote Sensing, 2011, 66, 115-123.	11.1	26

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37	Fair Kernel Learning. Lecture Notes in Computer Science, 2017, , 339-355.	1.3	26
38	Emulation as an Accurate Alternative to Interpolation in Sampling Radiative Transfer Codes. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4918-4931.	4.9	25
39	400â€" to 1000â€"nm imaging spectrometer based on acousto-optic tunable filters. Journal of Electronic Imaging, 2006, 15, 023001.	0.9	23
40	Configurable-bandwidth imaging spectrometer based on an acousto-optic tunable filter. Review of Scientific Instruments, 2006, 77, 073108.	1.3	23
41	A Review of Kernel Methods in Remote Sensing Data Analysis. , 2011, , 171-206.		22
42	Comparative analysis of atmospheric radiative transfer models using the Atmospheric Look-up table Generator (ALG) toolbox (version 2.0). Geoscientific Model Development, 2020, 13, 1945-1957.	3.6	20
43	Learning User's Confidence for Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 872-880.	6.3	19
44	Structured Output SVM for Remote Sensing Image Classification. Journal of Signal Processing Systems, 2011, 65, 301-310.	2.1	18
45	Randomized kernels for large scale Earth observation applications. Remote Sensing of Environment, 2017, 202, 54-63.	11.0	18
46	A unified SVM framework for signal estimation. , 2014, 26, 1-20.		14
47	Warped Gaussian Processes in Remote Sensing Parameter Estimation and Causal Inference. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1647-1651.	3.1	14
48	Sparse Deconvolution Using Support Vector Machines. Eurasip Journal on Advances in Signal Processing, 2008, 2008, .	1.7	12
49	Biophysical parameter estimation with adaptive Gaussian Processes. , 2009, , .		12
50	Cloud detection machine learning algorithms for PROBA-V. , 2017, , .		12
51	Hyperspectral image classification with mahalanobis relevance vector machines. , 2007, , .		11
52	Nonlinear Distribution Regression for Remote Sensing Applications. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10025-10035.	6.3	11
53	Systematic Assessment of MODTRAN Emulators for Atmospheric Correction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	11
54	Semi-supervised cloud screening with Laplacian SVM. , 2007, , .		10

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55	HyperLabelMe : A Web Platform for Benchmarking Remote-Sensing Image Classifiers. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 79-85.	9.6	8
56	Image classification with semi-supervised one-class support vector machine. Proceedings of SPIE, 2008, , .	0.8	7
57	Explicit Recursive and Adaptive Filtering in Reproducing Kernel Hilbert Spaces. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1413-1419.	11.3	7
58	Gap Filling of Biophysical Parameter Time Series with Multi-Output Gaussian Processes. , 2018, , .		7
59	Crane collision modelling using a neural network approach. Expert Systems With Applications, 2004, 27, 341-348.	7.6	6
60	Multitemporal image classification and change detection with kernels. , 2006, 6365, 136.		6
61	Cloud screening with combined MERIS and AATSR images. , 2009, , .		6
62	Integrating Domain Knowledge in Data-Driven Earth Observation With Process Convolutions. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	6
63	Combination of one-class remote sensing image classifiers. , 2007, , .		5
64	Learning non-linear time-scales with kernel -filters. Neurocomputing, 2009, 72, 1324-1328.	5.9	5
65	Kernel-based retrieval of atmospheric profiles from IASI data. , 2011, , .		5
66	Pattern Recognition Scheme for Large-Scale Cloud Detection Over Landmarks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3977-3987.	4.9	5
67	Configurable bandwidth imaging spectrometer based on acousto-optic tunable filter. , 2005, 5953, 216.		4
68	PCA Gaussianization for one-class remote sensing image classification. Proceedings of SPIE, 2009, , .	0.8	4
69	Nonlinear statistical retrieval of surface emissivity from IASI data. , 2017, , .		4
70	Relevance vector machines for sparse learning of biophysical parameters. , 2005, , .		4
71	Learning main drivers of crop progress and failure in Europe with interpretable machine learning. International Journal of Applied Earth Observation and Geoinformation, 2021, 104, 102574.	2.8	4
72	Semi-Supervised Support Vector Biophysical Parameter Estimation. , 2008, , .		3

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73	Multiset Kernel CCA for multitemporal image classification. , 2013, , .		3
74	Cloud detection on the Google Earth engine platform. , 2017, , .		3
75	Physics-Aware Gaussian Processes for Earth Observation. Lecture Notes in Computer Science, 2017, , 205-217.	1.3	3
76	Physics-Aware Machine Learning for Geosciences and Remote Sensing. , 2021, , .		3
77	400- to 1000-nm imaging spectrometer based on acousto-optic tunable filters. , 2004, 5570, 460.		2
78	Nonlinear retrieval of atmospheric profiles from MetOp-IASI and MTG-IRS data. , 2010, , .		2
79	Discovering single classes in remote sensing images with active learning. , 2012, , .		2
80	Web Monitoring System and Gateway for Serial Communication PLC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 296-301.	0.4	2
81	A kernel regression approach to cloud and shadow detection in multitemporal images. , 2013, , .		2
82	Advances in synergy of AATSR-MERIS sensors for cloud detection. , 2013, , .		2
83	Kernel change discriminant analysis for multitemporal cloud masking. , 2013, , .		2
84	Adaptive Kernel Learning for Signal Processing. , 2018, , 387-431.		2
85	Graph matching for efficient classifiers adaptation. , 2011, , .		1
86	Large scale semi-supervised image segmentation with active queries. , 2011, , .		1
87	Putting the user into the active learning loop: Towards realistic but efficient photointerpretation. , 2012, , .		1
88	Biophysical parameter retrieval with warped Gaussian processes. , 2015, , .		1
89	Operational cloud screening service for Sentinel-2 image time series. , 2015, , .		1
90	Autocorrelation Metrics to Estimate Soil Moisture Persistence From Satellite Time Series: Application to Semiarid Regions. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	1

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91	Global Cropland Yield Monitoring with Gaussian Processes. , 2021, , .		1
92	Machine Learning Methods for Spatial and Temporal Parameter Estimation. Advances in Computer Vision and Pattern Recognition, 2020, , 5-35.	1.3	1
93	Down-Scaling Modis Vegetation Products with Landsat GAP Filled Surface Reflectance in Google Earth Engine. , 2020, , .		1
94	Multi-stage robust scheme for citrus identification from high resolution airborne images. Proceedings of SPIE, 2008, , .	0.8	0
95	LABCENTER. A remote laboratory system platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9176-9180.	0.4	0
96	Learning Structures in Earth Observation Data with Gaussian Processes. Lecture Notes in Computer Science, 2016, , 78-94.	1.3	0
97	Generation of Global Vegetation Products from Eumetsat AVHRR/METOP Satellites. , 2018, , .		0
98	Statistical biophysical parameter retrieval and emulation with Gaussian processes. Data Handling in Science and Technology, 2020, 32, 333-368.	3.1	0
99	Global Upscaling of the MODIS Land Cover with Google Earth Engine and Landsat Data. , 2021, , .		0