Jordi Jmm MuÃ±oz-MarÃ-

List of Publications by Year
in descending order

99	5,926	117625	123424
papers	citations	34 h-index	61 g-index

114	114	114	5470
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Systematic Assessment of MODTRAN Emulators for Atmospheric Correction. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	11
2	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
3	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
4	A unified vegetation index for quantifying the terrestrial biosphere. Science Advances, 2021, 7, .	10.3	160
5	Global Cropland Yield Monitoring with Gaussian Processes. , 2021, , .		1
6	Global Upscaling of the MODIS Land Cover with Google Earth Engine and Landsat Data. , 2021, , .		0
7	Physics-Aware Machine Learning for Geosciences and Remote Sensing. , 2021, , .		3
8	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
9	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
10	Multispectral high resolution sensor fusion for smoothing and gap-filling in the cloud. Remote Sensing of Environment, 2020, 247, 111901.	11.0	67
11	Statistical biophysical parameter retrieval and emulation with Gaussian processes. Data Handling in Science and Technology, 2020, 32, 333-368.	3.1	0
12	Machine Learning Methods for Spatial and Temporal Parameter Estimation. Advances in Computer Vision and Pattern Recognition, 2020, , 5-35.	1.3	1
13	Down-Scaling Modis Vegetation Products with Landsat GAP Filled Surface Reflectance in Google Earth Engine. , 2020, , .		1
14	Fusing optical and SAR time series for LAI gap filling with multioutput Gaussian processes. Remote Sensing of Environment, 2019, 235, 111452.	11.0	64
15	Synergistic integration of optical and microwave satellite data for crop yield estimation. Remote Sensing of Environment, 2019, 234, 111460.	11.0	63
16	Nonlinear Distribution Regression for Remote Sensing Applications. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 10025-10035.	6.3	11
17	Inferring causation from time series in Earth system sciences. Nature Communications, 2019, 10, 2553.	12.8	411
18	Adaptive Kernel Learning for Signal Processing. , 2018, , 387-431.		2

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19	Derivation of global vegetation biophysical parameters from EUMETSAT Polar System. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 139, 57-74.	11.1	68
20	Physics-aware Gaussian processes in remote sensing. Applied Soft Computing Journal, 2018, 68, 69-82.	7.2	67
21	Gap Filling of Biophysical Parameter Time Series with Multi-Output Gaussian Processes. , 2018, , .		7
22	Generation of Global Vegetation Products from Eumetsat AVHRR/METOP Satellites. , 2018, , .		0
23	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
24	Multitemporal Cloud Masking in the Google Earth Engine. Remote Sensing, 2018, 10, 1079.	4.0	84
25	Warped Gaussian Processes in Remote Sensing Parameter Estimation and Causal Inference. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1647-1651.	3.1	14
26	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
27	Cloud masking and removal in remote sensing image time series. Journal of Applied Remote Sensing, 2017, 11, 015005.	1.3	37
28	Randomized kernels for large scale Earth observation applications. Remote Sensing of Environment, 2017, 202, 54-63.	11.0	18
29	Hyperspectral dimensionality reduction for biophysical variable statistical retrieval. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 132, 88-101.	11.1	86
30	Cloud detection on the Google Earth engine platform. , 2017, , .		3
31	HyperLabelMe : A Web Platform for Benchmarking Remote-Sensing Image Classifiers. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 79-85.	9.6	8
32	Cloud detection machine learning algorithms for PROBA-V. , 2017, , .		12
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	Nonlinear statistical retrieval of surface emissivity from IASI data. , 2017, , .		4
35	Physics-Aware Gaussian Processes for Earth Observation. Lecture Notes in Computer Science, 2017, , 205-217.	1.3	3
36	Fair Kernel Learning. Lecture Notes in Computer Science, 2017, , 339-355.	1.3	26

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37	Emulation of Leaf, Canopy and Atmosphere Radiative Transfer Models for Fast Global Sensitivity Analysis. Remote Sensing, 2016, 8, 673.	4.0	73
38	Learning Structures in Earth Observation Data with Gaussian Processes. Lecture Notes in Computer Science, 2016, , 78-94.	1.3	0
39	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
40	Active Learning Methods for Efficient Hybrid Biophysical Variable Retrieval. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1012-1016.	3.1	60
41	Biophysical parameter retrieval with warped Gaussian processes. , 2015, , .		1
42	An Emulator Toolbox to Approximate Radiative Transfer Models with Statistical Learning. Remote Sensing, 2015, 7, 9347-9370.	4.0	61
43	Operational cloud screening service for Sentinel-2 image time series. , 2015, , .		1
44	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
45	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
46	Prediction of Daily Global Solar Irradiation Using Temporal Gaussian Processes. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1936-1940.	3.1	79
47	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
48	A unified SVM framework for signal estimation. , 2014, 26, 1-20.		14
49	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
50	Graph Matching for Adaptation in Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 329-341.	6.3	81
51	A kernel regression approach to cloud and shadow detection in multitemporal images. , 2013, , .		2
52	Multiset Kernel CCA for multitemporal image classification. , 2013, , .		3
53	Learning User's Confidence for Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 872-880.	6.3	19
54	Advances in synergy of AATSR-MERIS sensors for cloud detection. , 2013, , .		2

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55	Kernel change discriminant analysis for multitemporal cloud masking. , 2013, , .		2
56	Discovering single classes in remote sensing images with active learning. , 2012, , .		2
57	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
58	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
59	Putting the user into the active learning loop: Towards realistic but efficient photointerpretation. , 2012, , .		1
60	Semisupervised Classification of Remote Sensing Images With Active Queries. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3751-3763.	6.3	81
61	Remote sensing image segmentation by active queries. Pattern Recognition, 2012, 45, 2180-2192.	8.1	48
62	A Review of Kernel Methods in Remote Sensing Data Analysis. , 2011, , 171-206.		22
63	LABCENTER. A remote laboratory system platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9176-9180.	0.4	0
64	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
65	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
66	Structured Output SVM for Remote Sensing Image Classification. Journal of Signal Processing Systems, 2011, 65, 301-310.	2.1	18
67	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
68	Graph matching for efficient classifiers adaptation. , 2011, , .		1
69	Large scale semi-supervised image segmentation with active queries. , 2011, , .		1
70	Kernel-based retrieval of atmospheric profiles from IASI data. , 2011, , .		5
71	Nonlinear retrieval of atmospheric profiles from MetOp-IASI and MTG-IRS data. , 2010, , .		2
72	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

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73	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
74	Cloud screening with combined MERIS and AATSR images. , 2009, , .		6
75	Learning non-linear time-scales with kernel -filters. Neurocomputing, 2009, 72, 1324-1328.	5.9	5
76	Biophysical Parameter Estimation With a Semisupervised Support Vector Machine. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 248-252.	3.1	55
77	Biophysical parameter estimation with adaptive Gaussian Processes. , 2009, , .		12
78	PCA Gaussianization for one-class remote sensing image classification. Proceedings of SPIE, 2009, , .	0.8	4
79	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
80	Semisupervised Image Classification With Laplacian Support Vector Machines. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 336-340.	3.1	237
81	Image classification with semi-supervised one-class support vector machine. Proceedings of SPIE, 2008, , .	0.8	7
82	Semi-Supervised Support Vector Biophysical Parameter Estimation. , 2008, , .		3
83	Multi-stage robust scheme for citrus identification from high resolution airborne images. Proceedings of SPIE, 2008, , .	0.8	0
84	Sparse Deconvolution Using Support Vector Machines. Eurasip Journal on Advances in Signal Processing, 2008, 2008, .	1.7	12
85	Semi-supervised cloud screening with Laplacian SVM. , 2007, , .		10
86	Combination of one-class remote sensing image classifiers. , 2007, , .		5
87	Hyperspectral image classification with mahalanobis relevance vector machines. , 2007, , .		11
88	Nonlinear System Identification With Composite Relevance Vector Machines. IEEE Signal Processing Letters, 2007, 14, 279-282.	3.6	28
89	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
90	Support Vector Machines for Nonlinear Kernel ARMA System Identification. IEEE Transactions on Neural Networks, 2006, 17, 1617-1622.	4.2	81

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91	Composite Kernels for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 93-97.	3.1	956
92	Retrieval of oceanic chlorophyll concentration with relevance vector machines. Remote Sensing of Environment, 2006, 105, 23-33.	11.0	89
93	Multitemporal image classification and change detection with kernels. , 2006, 6365, 136.		6
94	400â€“ to 1000â€“nm imaging spectrometer based on acousto-optic tunable filters. Journal of Electronic Imaging, 2006, 15, 023001.	0.9	23
95	Configurable-bandwidth imaging spectrometer based on an acousto-optic tunable filter. Review of Scientific Instruments, 2006, 77, 073108.	1.3	23
96	Configurable bandwidth imaging spectrometer based on acousto-optic tunable filter. , 2005, 5953, 216.		4
97	Relevance vector machines for sparse learning of biophysical parameters. , 2005, , .		4
98	400- to 1000-nm imaging spectrometer based on acousto-optic tunable filters. , 2004, 5570, 460.		2
99	Crane collision modelling using a neural network approach. Expert Systems With Applications, 2004, 27, 341-348.	7.6	6