

Valero Laparra

List of Publications by Year in descending order

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72
papers

1,316
citations

430442

18
h-index

414034

32
g-index

73
all docs

73
docs citations

73
times ranked

1341
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised Anomaly and Change Detection With Multivariate Gaussianization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	3
2	Cross-Sensor Adversarial Domain Adaptation of Landsat-8 and Proba-V Images for Cloud Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 747-761.	2.3	15
3	Gaussianizing the Earth: Multidimensional information measures for Earth data analysis. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 191-208.	4.9	4
4	Combined dynamics of the 500â€“600Ånm leaf absorption and chlorophyll fluorescence changes in vivo: Evidence for the multifunctional energy quenching role of xanthophylls. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148351.	0.5	13
5	Accounting for Input Noise in Gaussian Process Parameter Retrieval. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 391-395.	1.4	11
6	Transferring deep learning models for cloud detection between Landsat-8 and Proba-V. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 160, 1-17.	4.9	47
7	Efficient Kernel Cook's Distance for Remote Sensing Anomalous Change Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5480-5488.	2.3	2
8	Perceptnet: A Human Visual System Inspired Neural Network For Estimating Perceptual Distance. , 2020, , ,		9
9	Statistical biophysical parameter retrieval and emulation with Gaussian processes. Data Handling in Science and Technology, 2020, 32, 333-368.	3.1	0
10	Kernel methods and their derivatives: Concept and perspectives for the earth system sciences. PLoS ONE, 2020, 15, e0235885.	1.1	7
11	Kernel methods and their derivatives: Concept and perspectives for the earth system sciences. , 2020, 15, e0235885.		0
12	Kernel methods and their derivatives: Concept and perspectives for the earth system sciences. , 2020, 15, e0235885.		0
13	Kernel methods and their derivatives: Concept and perspectives for the earth system sciences. , 2020, 15, e0235885.		0
14	Kernel methods and their derivatives: Concept and perspectives for the earth system sciences. , 2020, 15, e0235885.		0
15	Kernel methods and their derivatives: Concept and perspectives for the earth system sciences. , 2020, 15, e0235885.		0
16	Kernel Anomalous Change Detection for Remote Sensing Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7743-7755.	2.7	12
17	Improved Statistically Based Retrievals via Spatial-Spectral Data Compression for IASI Data. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5651-5668.	2.7	7
18	Domain Adaptation of Landsat-8 and Proba-V Data Using Generative Adversarial Networks for Cloud Detection. , 2019, , ,		4

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19	Statistical retrieval of atmospheric profiles with deep convolutional neural networks. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 158, 231-240.	4.9	21
20	Derivation of global vegetation biophysical parameters from EUMETSAT Polar System. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 139, 57-74.	4.9	68
21	Physics-aware Gaussian processes in remote sensing. Applied Soft Computing Journal, 2018, 68, 69-82.	4.1	67
22	Disentangling Derivatives, Uncertainty and Error in Gaussian Process Models. , 2018, , .		1
23	Optimizing Kernel Ridge Regression for Remote Sensing Problems. , 2018, , .		4
24	Generation of Global Vegetation Products from Eumetsat AVHRR/METOP Satellites. , 2018, , .		0
25	Transfer Learning with Convolutional Networks for Atmospheric Parameter Retrieval. , 2018, , .		0
26	Consistent Regression of Biophysical Parameters with Kernel Methods. , 2018, , .		0
27	Optimized Kernel Entropy Components. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 1466-1472.	7.2	19
28	Statistical Atmospheric Parameter Retrieval Largely Benefits From Spatialâ€“Spectral Image Compression. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2213-2224.	2.7	10
29	Randomized kernels for large scale Earth observation applications. Remote Sensing of Environment, 2017, 202, 54-63.	4.6	18
30	HyperLabelMe : A Web Platform for Benchmarking Remote-Sensing Image Classifiers. IEEE Geoscience and Remote Sensing Magazine, 2017, 5, 79-85.	4.9	8
31	Probabilistic cross-validation estimators for Gaussian process regression. , 2017, , .		5
32	Perceptually optimized image rendering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1511.	0.8	45
33	Spatial noise-aware temperature retrieval from infrared sounder data. , 2017, , .		2
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.	1.0	3
36	Fair Kernel Learning. Lecture Notes in Computer Science, 2017, , 339-355.	1.0	26

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37	Predicting perceptual distortion sensitivity with gain control models of LGN. Journal of Vision, 2017, 17, 776.	0.1	1
38	Perceptual image quality assessment using a normalized Laplacian pyramid. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-6.	0.3	78
39	Learning Structures in Earth Observation Data with Gaussian Processes. Lecture Notes in Computer Science, 2016, , 78-94.	1.0	0
40	End-to-end optimization of nonlinear transform codes for perceptual quality. , 2016, , .		138
41	A Survey on Gaussian Processes for Earth-Observation Data Analysis: A Comprehensive Investigation. IEEE Geoscience and Remote Sensing Magazine, 2016, 4, 58-78.	4.9	172
42	Regression Wavelet Analysis for Lossless Coding of Remote-Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5616-5627.	2.7	39
43	Visual aftereffects and sensory nonlinearities from a single statistical framework. Frontiers in Human Neuroscience, 2015, 9, 557.	1.0	16
44	Large-scale random features for kernel regression. , 2015, , .		7
45	Spatial/spectral information trade-off in hyperspectral images. , 2015, , .		7
46	Dimensionality Reduction via Regression in Hyperspectral Imagery. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1026-1036.	7.3	36
47	Dimensionality reduction via regression on hyperspectral infrared sounding data. , 2014, , .		3
48	PRINCIPAL POLYNOMIAL ANALYSIS. International Journal of Neural Systems, 2014, 24, 1440007.	3.2	24
49	Lossless coding of hyperspectral images with principal polynomial analysis. , 2014, , .		5
50	Spatio-Chromatic Adaptation via Higher-Order Canonical Correlation Analysis of Natural Images. PLoS ONE, 2014, 9, e86481.	1.1	18
51	Kernel Structural SIMilarity on hyperspectral images. , 2013, , .		1
52	Encoding Invariances in Remote Sensing Image Classification With SVM. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 981-985.	1.4	46
53	Visual discrimination and adaptation using non-linear unsupervised learning. Proceedings of SPIE, 2013, , .	0.8	0
54	Chromatic induction and contrast masking: similar models, different goals?. , 2013, , .		0

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55	Including invariances in SVM remote sensing image classification. , 2012, , .		3
56	Nonlinearities and Adaptation of Color Vision from Sequential Principal Curves Analysis. Neural Computation, 2012, 24, 2751-2788.	1.3	36
57	Nonlinear data description with Principal Polynomial Analysis. , 2012, , .		6
58	Iterative Gaussianization: From ICA to Random Rotations. IEEE Transactions on Neural Networks, 2011, 22, 537-549.	4.8	72
59	A Review of Kernel Methods in Remote Sensing Data Analysis. , 2011, , 171-206.		22
60	Principal polynomial analysis for remote sensing data processing. , 2011, , .		4
61	Kernel-based retrieval of atmospheric profiles from IASI data. , 2011, , .		5
62	Complex-Valued Independent Component Analysis of Natural Images. Lecture Notes in Computer Science, 2011, , 213-220.	1.0	4
63	Psychophysically Tuned Divisive Normalization Approximately Factorizes the PDF of Natural Images. Neural Computation, 2010, 22, 3179-3206.	1.3	38
64	Adaptive kernel ridge regression for image denoising. , 2010, , .		2
65	Divisive normalization image quality metric revisited. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 852.	0.8	76
66	Estimating biophysical variable dependences with kernels. , 2010, , .		4
67	Visual Cortex Performs a Sort of Non-linear ICA. Lecture Notes in Computer Science, 2010, , 17-25.	1.0	0
68	PCA Gaussianization for image processing. , 2009, , .		7
69	PCA Gaussianization for one-class remote sensing image classification. Proceedings of SPIE, 2009, , .	0.8	4
70	Recovering wavelet relations using SVM for image denoising. , 2008, , .		3
71	Inference over radiative transfer models using variational and expectation maximization methods. Machine Learning, 0, , 1.	3.4	2
72	Enforcing perceptual consistency on Generative Adversarial Networks by using the Normalised Laplacian Pyramid Distance. Proceedings of the Northern Lights Deep Learning Workshop, 0, 1, 6.	0.0	1