Michele Volpi

List of Publications by Year
in descending order

47 papers	2,813 citations	394421 19 h-index	526287 27 g-index
48 all docs	48 docs citations	48 times ranked	2845 citing authors

#	Article	IF	Citations
1	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
2	Dense Semantic Labeling of Subdecimeter Resolution Images With Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 881-893.	6.3	391
3	Supervised change detection in VHR images using contextual information and support vector machines. International Journal of Applied Earth Observation and Geoinformation, 2013, 20, 77-85.	2.8	204
4	Land cover mapping at very high resolution with rotation equivariant CNNs: Towards small yet accurate models. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 145, 96-107.	11.1	186
5	Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3550-3564.	6.3	171
6	Multi-Modal Change Detection, Application to the Detection of Flooded Areas: Outcome of the 2009â€"2010 Data Fusion Contest. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 331-342.	4.9	149
7	Semisupervised Manifold Alignment of Multimodal Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7708-7720.	6.3	121
8	Spectral alignment of multi-temporal cross-sensor images with automated kernel canonical correlation analysis. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 107, 50-63.	11.1	107
9	Rotation Equivariant Vector Field Networks. , 2017, , .		106
10	Detecting animals in African Savanna with UAVs and the crowds. Remote Sensing of Environment, 2017, 200, 341-351.	11.0	104
11	Semantic segmentation of urban scenes by learning local class interactions. , 2015, , .		102
12	Unsupervised Change Detection With Kernels. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 1026-1030.	3.1	80
13	Automatic Feature Learning for Spatio-Spectral Image Classification With Sparse SVM. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6062-6074.	6.3	71
14	Learning rotation invariant convolutional filters for texture classification. , 2016, , .		68
15	Deep multi-task learning for a geographically-regularized semantic segmentation of aerial images. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 144, 48-60.	11.1	68
16	Examining the Capability of Supervised Machine Learning Classifiers in Extracting Flooded Areas from Landsat TM Imagery: A Case Study from a Mediterranean Flood. Remote Sensing, 2015, 7, 3372-3399.	4.0	66
17	Fast animal detection in UAV images using convolutional neural networks. , 2017, , .		59
18	Joint height estimation and semantic labeling of monocular aerial images with CNNS. , 2017, , .		45

#	Article	IF	Citations
19	Flooding extent cartography with Landsat TM imagery and regularized kernel Fisher's discriminant analysis. Computers and Geosciences, 2013, 57, 24-31.	4.2	31
20	Memory-Based Cluster Sampling for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3096-3106.	6.3	30
21	Semi-supervised multiview embedding for hyperspectral data classification. Neurocomputing, 2014, 145, 427-437.	5.9	26
22	Robust quantification of riverine land cover dynamics by high-resolution remote sensing. Remote Sensing of Environment, 2018, 217, 491-505.	11.0	26
23	Unbiased query-by-bagging active learning for VHR image classification. Proceedings of SPIE, 2010, , .	0.8	22
24	Decision Fusion With Multiple Spatial Supports by Conditional Random Fields. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3277-3289.	6.3	22
25	Analysis of past and future dam formation and failure in the Santa Cruz River (San Juan province,) Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	16
26	Unsupervised change detection by kernel clustering. Proceedings of SPIE, 2010, , .	0.8	13
27	Transfer component analysis for domain adaptation in image classification. Proceedings of SPIE, 2011, , .	0.8	12
28	Exploring the coupled ocean and atmosphere system with a data science approach applied to observations from the Antarctic Circumnavigation Expedition. Earth System Dynamics, 2021, 12, 1295-1369.	7.1	12
29	Structured prediction for urban scene semantic segmentation with geographic context. , 2015, , .		11
30	Multi-sensor change detection based on nonlinear canonical correlations. , 2013, , .		10
31	Machine learning for cross-gazetteer matching of natural features. International Journal of Geographical Information Science, 2020, 34, 708-734.	4.8	10
32	Automated detection of individual clove trees for yield quantification in northeastern Madagascar based on multi-spectral satellite data. Remote Sensing of Environment, 2019, 221, 144-156.	11.0	7
33	Unsupervised Alignment of Image Manifolds with Centrality Measures. , 2014, , .		6
34	Multisensor alignment of image manifolds. , 2013, , .		5
35	Unsupervised change detection in the feature space using kernels. , 2011, , .		4
36	Advanced active sampling for remote sensing image classification. , 2010, , .		3

#	Article	IF	Citations
37	Foreword to the Special Issue on Machine Learning for Geospatial Data Analysis. ISPRS International Journal of Geo-Information, 2018, 7, 147.	2.9	3
38	Getting pixels and regions to agree with conditional random fields. , 2016, , .		2
39	Advances in Kernel Machines for Image Classification and Biophysical Parameter Retrieval. Signals and Communication Technology, 2018, , 399-441.	0.5	2
40	Gazetteer matching for natural features in Switzerland. , 2017, , .		1
41	Enhanced change detection using nonlinear feature extraction. , 2012, , .		0
42	Create the relevant spatial filterbank in the hyperspectral jungle. , 2013, , .		0
43	Classification of urban multi-angular image sequences by aligning their manifolds. , 2013, , .		0
44	Spatially aware supervised nonlinear dimensionality reduction for hyperspectral data. , 2014, , .		0
45	Solving structured segmentation of aerial images as puzzles. , 2016, , .		0
46	Semantic labeling of aerial images by learning class-specific object proposals. , 2016, , .		0
47	Learning class- and location-specific priors for urban semantic labeling with CNNs. , 2017, , .		0