Mathieu Fauvel

List of Publications by Year
in descending order

24 papers	3,509 citations	687363 13 h-index	610901 24 g-index
24 all docs	24 docs citations	24 times ranked	3140 citing authors

#	Article	IF	Citations
1	Recent advances in techniques for hyperspectral image processing. Remote Sensing of Environment, 2009, 113, S110-S122.	11.0	1,452
2	Spectral and Spatial Classification of Hyperspectral Data Using SVMs and Morphological Profiles. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3804-3814.	6.3	930
3	SVM- and MRF-Based Method for Accurate Classification of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 736-740.	3.1	651
4	A classifier ensemble based on fusion of support vector machines for classifying hyperspectral data. International Journal of Image and Data Fusion, 2010, 1, 293-307.	1.7	89
5	Tree Species Classification in Temperate Forests Using Formosat-2 Satellite Image Time Series. Remote Sensing, 2016, 8, 734.	4.0	63
6	Prediction of plant diversity in grasslands using Sentinel-1 and -2 satellite image time series. Remote Sensing of Environment, 2020, 237, 111536.	11.0	59
7	Large-Scale Feature Selection With Gaussian Mixture Models for the Classification of High Dimensional Remote Sensing Images. IEEE Transactions on Computational Imaging, 2017, 3, 230-242.	4.4	41
8	Hyperspectral Unmixing With Spectral Variability Using Adaptive Bundles and Double Sparsity. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3980-3992.	6.3	41
9	Spectro-Temporal Heterogeneity Measures from Dense High Spatial Resolution Satellite Image Time Series: Application to Grassland Species Diversity Estimation. Remote Sensing, 2017, 9, 993.	4.0	34
10	Hyperspectral Image Unmixing With LiDAR Data-Aided Spatial Regularization. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4098-4108.	6.3	26
11	Object-Based Classification of Grasslands from High Resolution Satellite Image Time Series Using Gaussian Mean Map Kernels. Remote Sensing, 2017, 9, 688.	4.0	20
12	Detection of individual trees in urban alignment from airborne data and contextual information: A marked point process approach. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 197-210.	11.1	20
13	Statistical Stability and Spatial Instability in Mapping Forest Tree Species by Comparing 9 Years of Satellite Image Time Series. Remote Sensing, 2019, 11, 2512.	4.0	15
14	Object-based fusion for urban tree species classification from hyperspectral, panchromatic and nDSM data. International Journal of Remote Sensing, 2019, 40, 5339-5365.	2.9	12
15	Building a shared vision of the future for multifunctional agricultural landscapes. Lessons from a long term socio-ecological research site in south-western France. Advances in Ecological Research, 2021, , 57-106.	2.7	10
16	Joint Supervised Classification and Reconstruction of Irregularly Sampled Satellite Image Times Series. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	9
17	Matrix Cofactorization for Joint Spatial–Spectral Unmixing of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4915-4927.	6.3	7
18	Hierarchical Bayesian image analysis: From low-level modeling to robust supervised learning. Pattern Recognition, 2019, 85, 26-36.	8.1	6

#	Article	IF	Citations
19	Hierarchical Sparse Nonnegative Matrix Factorization for Hyperspectral Unmixing with Spectral Variability. Remote Sensing, 2020, 12, 2326.	4.0	6
20	Nonparametric regression on contaminated functional predictor with application to hyperspectral data. Econometrics and Statistics, 2019, 9, 95-107.	0.8	5
21	Vectorisation automatique des forêts dans les minutes de la carte d'état-major du 19e siècle. Revue Internationale De Géomatique, 2015, 25, 35-51.	0.1	5
22	Parsimonious Gaussian Process Models for the Classification of Hyperspectral Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2423-2427.	3.1	4
23	Experimental comparison of functional and multivariate spectral-based supervised classification methods in hyperspectral image. Journal of Applied Statistics, 2018, 45, 2219-2237.	1.3	2
24	Matrix cofactorization for joint representation learning and supervised classification – Application to hyperspectral image analysis. Neurocomputing, 2020, 385, 132-147.	5.9	2