Maria Julia Sanz

List of Publications by Year
in descending order

38 papers	871 citations	471509 17 h-index	477307 29 g-index
39 all docs	39 docs citations	39 times ranked	846 citing authors

#	Article	IF	Citations
1	A novel Grouping Genetic Algorithmâ€“Extreme Learning Machine approach for global solar radiation prediction from numerical weather models inputs. Solar Energy, 2016, 132, 129-142.	6.1	95
2	Machine learning regressors for solar radiation estimation from satellite data. Solar Energy, 2019, 183, 768-775.	6.1	93
3	Potato Yield Prediction Using Machine Learning Techniques and Sentinel 2 Data. Remote Sensing, 2019, 11, 1745.	4.0	87
4	Evolutionary artificial neural networks for accurate solar radiation prediction. Energy, 2020, 210, 118374.	8.8	58
5	Modelling wheat yield with antecedent information, satellite and climate data using machine learning methods in Mexico. Agricultural and Forest Meteorology, 2021, 300, 108317.	4.8	39
6	A new approach to monitor water quality in the Menor sea (Spain) using satellite data and machine learning methods. Environmental Pollution, 2021, 286, 117489.	7.5	39
7	Evaluation of dimensionality reduction methods applied to numerical weather models for solar radiation forecasting. Engineering Applications of Artificial Intelligence, 2018, 69, 157-167.	8.1	32
8	Prediction of low-visibility events due to fog using ordinal classification. Atmospheric Research, 2018, 214, 64-73.	4.1	32
9	Desert locust detection using Earth observation satellite data in Mauritania. Journal of Arid Environments, 2019, 164, 29-37.	2.4	32
10	Efficient Prediction of Low-Visibility Events at Airports Using Machine-Learning Regression. Boundary-Layer Meteorology, 2017, 165, 349-370.	2.3	29
11	Randomization-based machine learning in renewable energy prediction problems: Critical literature review, new results and perspectives. Applied Soft Computing Journal, 2022, 118, 108526.	7.2	29
12	A CRO-species optimization scheme for robust global solar radiation statistical downscaling. Renewable Energy, 2017, 111, 63-76.	8.9	28
13	Analysis and Prediction of Dammed Water Level in a Hydropower Reservoir Using Machine Learning and Persistence-Based Techniques. Water (Switzerland), 2020, 12, 1528.	2.7	28
14	Machine learning approach to locate desert locust breeding areas based on ESA CCI soil moisture. Journal of Applied Remote Sensing, 2018, 12, 1.	1.3	27
15	Modelling desert locust presences using 32-year soil moisture data on a large-scale. Ecological Indicators, 2020, 117, 106655.	6.3	23
16	Efficient fog prediction with multi-objective evolutionary neural networks. Applied Soft Computing Journal, 2018, 70, 347-358.	7.2	22
17	Persistence Analysis and Prediction of Low-Visibility Events at Valladolid Airport, Spain. Symmetry, 2020, 12, 1045.	2.2	20
18	Estimation of Potato Yield Using Satellite Data at a Municipal Level: A Machine Learning Approach. ISPRS International Journal of Geo-Information, 2020, 9, 343.	2.9	19

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19	Can Eltonian processes explain species distributions at large scale? A case study with Great Bustard (Otis tarda). Diversity and Distributions, 2015, 21, 123-138.	4.1	15
20	Ordinal regression algorithms for the analysis of convective situations over Madrid-Barajas airport. Atmospheric Research, 2020, 236, 104798.	4.1	15
21	Prediction of desert locust breeding areas using machine learning methods and SMOS (MIR_SMNRT2) Near Real Time product. Journal of Arid Environments, 2021, 194, 104599.	2.4	13
22	Detecting Areas Vulnerable to Sand Encroachment Using Remote Sensing and GIS Techniques in Nouakchott, Mauritania. Remote Sensing, 2018, 10, 1541.	4.0	12
23	Regional estimation of garlic yield using crop, satellite and climate data in Mexico. Computers and Electronics in Agriculture, 2021, 181, 105943.	7.7	11
24	Rapid response for cloud monitoring through Meteosat VISâ€IR and NOAAâ€“A/TOVS image fusion: civil aviation application. A first approach to MSGâ€SEVIRI. International Journal of Remote Sensing, 2005, 26, 1699-1716.	2.9	10
25	Current landscape attributes and landscape stability in breeding grounds explain genetic differentiation in a longâ€distance migratory bird. Animal Conservation, 2021, 24, 120-134.	2.9	10
26	Feature selection in solar radiation prediction using bootstrapped SVRs. , 2016, , .		9
27	Efficient prediction of total column ozone based on support vector regression algorithms, numerical models and Suomi-satellite data. Atmosfera, 2017, 30, 1-10.	0.8	8
28	New spectral indicator Potato Productivity Index based on Sentinel-2 data to improve potato yield prediction: a machine learning approach. International Journal of Remote Sensing, 2021, 42, 3426-3444.	2.9	7
29	Application of discriminant analysis to interpret the behaviour of photochemical oxidants in an urban area. Atmospheric Environment, 1994, 28, 1147-1157.	4.1	6
30	Analyzing ice dynamics using Sentinel-1 data at the SolheimajokÃ¼ll Glacier, Iceland. GIScience and Remote Sensing, 2020, 57, 813-829.	5.9	5
31	Relation between meteorological conditions and the catching of red tuna (Thunnus thynnus) from the measurements of the TOVS and AVHRR sensors of the NOAA satellites. International Journal of Remote Sensing, 2007, 28, 2671-2681.	2.9	4
32	An Empirical Radiometric Intercomparison Methodology Based on Global Simultaneous Nadir Overpasses Applied to Landsat 8 and Sentinel-2. Remote Sensing, 2020, 12, 2736.	4.0	4
33	Decorrelation of Satellite Precipitation Estimates in Space and Time. Remote Sensing, 2018, 10, 752.	4.0	3
34	Analysis of Spatial and Temporal Variability in Libya-4 with Landsat 8 and Sentinel-2 Data for Optimized Ground Target Location. Remote Sensing, 2019, 11, 2909.	4.0	3
35	An automatic self-learning cloud-filtering algorithm for Meteosat Second Generationâ€“Spinning Enhanced Visible and Infrared Imager. Remote Sensing Letters, 2013, 4, 180-189.	1.4	1
36	Machine learning approach to predict leaf colour change in Fagus sylvatica L. (Spain). Agricultural and Forest Meteorology, 2021, 310, 108661.	4.8	1

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37	Merging ELMs with Satellite Data and Clear-Sky Models for Effective Solar Radiation Estimation. Lecture Notes in Computer Science, 2018, , 163-170.	1.3	0
38	Pasture Loss Indexed Insurance in Chile. SpringerBriefs in Economics, 2020, , 41-59.	0.3	0