JosÃ© Manuel PeÃ±a

List of Publications by Year
in descending order

64	4,751	117453	123241
papers	citations	34 h-index	61 g-index

64	64	64	4351
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	UAVs for Vegetation Monitoring: Overview and Recent Scientific Contributions. Remote Sensing, 2021, 13, 2139.	1.8	60
2	Mapping tillage direction and contour farming by object-based analysis of UAV images. Computers and Electronics in Agriculture, 2021, 187, 106281.	3.7	8
3	Mapping Cynodon Dactylon Infesting Cover Crops with an Automatic Decision Tree-OBIA Procedure and UAV Imagery for Precision Viticulture. Remote Sensing, 2020, 12, 56.	1.8	29
4	A Comparison of UAV and Satellites Multispectral Imagery in Monitoring Onion Crop. An Application in the â€˜Cipolla Rossa di Tropeaâ€™ (Italy). Remote Sensing, 2020, 12, 3424.	1.8	48
5	High-Throughput Phenotyping of Bioethanol Potential in Cereals Using UAV-Based Multi-Spectral Imagery. Frontiers in Plant Science, 2019, 10, 948.	1.7	17
6	Comparing UAV-Based Technologies and RGB-D Reconstruction Methods for Plant Height and Biomass Monitoring on Grass Ley. Sensors, 2019, 19, 535.	2.1	70
7	Automatic UAV-based detection of Cynodon dactylon for site-specific vineyard management. PLoS ONE, 2019, 14, e0218132.	1.1	37
8	Assessment of the Persistence of Avena sterilis L. Patches in Wheat Fields for Site-Specific Sustainable Management. Agronomy, 2019, 9, 30.	1.3	7
9	Watson on the Farm: Using Cloud-Based Artificial Intelligence to Identify Early Indicators of Water Stress. Remote Sensing, 2019, 11, 2645.	1.8	25
10	Is the current state of the art of weed monitoring suitable for siteâ€specific weed management in arable crops?. Weed Research, 2018, 58, 259-272.	0.8	105
11	Assessing UAV-collected image overlap influence on computation time and digital surface model accuracy in olive orchards. Precision Agriculture, 2018, 19, 115-133.	3.1	97
12	Mapping the 3D structure of almond trees using UAV acquired photogrammetric point clouds and object-based image analysis. Biosystems Engineering, 2018, 176, 172-184.	1.9	75
13	Mapping Crop Calendar Events and Phenology-Related Metrics at the Parcel Level by Object-Based Image Analysis (OBIA) of MODIS-NDVI Time-Series: A Case Study in Central California. Remote Sensing, 2018, 10, 1745.	1.8	36
14	An Automatic Random Forest-OBIA Algorithm for Early Weed Mapping between and within Crop Rows Using UAV Imagery. Remote Sensing, 2018, 10, 285.	1.8	188
15	3-D Characterization of Vineyards Using a Novel UAV Imagery-Based OBIA Procedure for Precision Viticulture Applications. Remote Sensing, 2018, 10, 584.	1.8	87
16	Experimental approach to detect water stress in ornamental plants using sUAS-imagery. , 2018, , .		6
17	Estimating tree height and biomass of a poplar plantation with image-based UAV technology. AIMS Agriculture and Food, 2018, 3, 313-323.	0.8	29
18	Accurate ortho-mosaicked six-band multispectral UAV images as affected by mission planning for precision agriculture proposes. International Journal of Remote Sensing, 2017, 38, 2161-2176.	1.3	37

#	Article	IF	Citations
19	Quantifying pruning impacts on olive tree architecture and annual canopy growth by using UAV-based 3D modelling. Plant Methods, 2017, 13, 55.	1.9	90
20	Object-based early monitoring of a grass weed in a grass crop using high resolution UAV imagery. Agronomy for Sustainable Development, 2016, 36, 1.	2.2	66
21	Machine learning paradigms for weed mapping via unmanned aerial vehicles. , 2016, , .		17
22	Selecting patterns and features for between- and within- crop-row weed mapping using UAV-imagery. Expert Systems With Applications, 2016, 47, 85-94.	4.4	132
23	Early season weed mapping in sunflower using UAV technology: variability of herbicide treatment maps against weed thresholds. Precision Agriculture, 2016, 17, 183-199.	3.1	144
24	Assessing Optimal Flight Parameters for Generating Accurate Multispectral Orthomosaicks by UAV to Support Site-Specific Crop Management. Remote Sensing, 2015, 7, 12793-12814.	1.8	128
25	Spatial Quality Evaluation of Resampled Unmanned Aerial Vehicle-Imagery for Weed Mapping. Sensors, 2015, 15, 19688-19708.	2.1	33
26	Census Parcels Cropping System Classification from Multitemporal Remote Imagery: A Proposed Universal Methodology. PLoS ONE, 2015, 10, e0117551.	1.1	2
27	High-Throughput 3-D Monitoring of Agricultural-Tree Plantations with Unmanned Aerial Vehicle (UAV) Technology. PLoS ONE, 2015, 10, e0130479.	1.1	183
28	Quantifying Efficacy and Limits of Unmanned Aerial Vehicle (UAV) Technology for Weed Seedling Detection as Affected by Sensor Resolution. Sensors, 2015, 15, 5609-5626.	2.1	136
29	An automatic object-based method for optimal thresholding in UAV images: Application for vegetation detection in herbaceous crops. Computers and Electronics in Agriculture, 2015, 114, 43-52.	3.7	222
30	A semi-supervised system for weed mapping in sunflower crops using unmanned aerial vehicles and a crop row detection method. Applied Soft Computing Journal, 2015, 37, 533-544.	4.1	145
31	An Experimental Comparison for the Identification of Weeds in Sunflower Crops via Unmanned Aerial Vehicles and Object-Based Analysis. Lecture Notes in Computer Science, 2015, , 252-262.	1.0	4
32	Object-Based Image Classification of Summer Crops with Machine Learning Methods. Remote Sensing, 2014, 6, 5019-5041.	1.8	152
33	Multi-temporal mapping of the vegetation fraction in early-season wheat fields using images from UAV. Computers and Electronics in Agriculture, 2014, 103, 104-113.	3.7	365
34	Evaluation of pixel- and object-based approaches for mapping wild oat (Avena sterilis) weed patches in wheat fields using QuickBird imagery for site-specific management. European Journal of Agronomy, 2014, 59, 57-66.	1.9	61
35	Mapas de calendario de cultivo y variables fenolÃ³gicas mediante el anÃ¡lisis de imÃ¡genes MODIS y ASTER basado en objetos. Revista De Teledeteccion, 2014, .	0.6	2
36	DetecciÃ³n de malas hierbas en girasol en fase temprana mediante imÃ¡genes tomadas con un vehÃculo aÃ©reo no tripulado (UAV). Revista De Teledeteccion, 2014, , 39.	0.6	1

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37	Underlying causes of yield spatial variability and potential for precision management in rice systems. Precision Agriculture, 2013, 14, 512-540.	3.1	24
38	Semiautomatic Detection of Artificial Terrestrial Targets for Remotely Sensed Image Georeferencing. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 184-188.	1.4	3
39	Weed Mapping in Early-Season Maize Fields Using Object-Based Analysis of Unmanned Aerial Vehicle (UAV) Images. PLoS ONE, 2013, 8, e77151.	1.1	282
40	Configuration and Specifications of an Unmanned Aerial Vehicle (UAV) for Early Site Specific Weed Management. PLoS ONE, 2013, 8, e58210.	1.1	230
41	Understanding the errors in input prescription maps based on high spatial resolution remote sensing images. Precision Agriculture, 2012, 13, 581-593.	3.1	9
42	Applying Neural Networks to Hyperspectral and Multispectral Field Data for Discrimination of Cruciferous Weeds in Winter Crops. Scientific World Journal, The, 2012, 2012, 1-11.	0.8	32
43	Airborne multi-spectral imagery for mapping cruciferous weeds in cereal and legume crops. Precision Agriculture, 2012, 13, 302-321.	3.1	60
44	Sectioning remote imagery for characterization of Avena sterilis infestations. Part A: Weed abundance. Precision Agriculture, 2012, 13, 322-336.	3.1	10
45	Sectioning remote imagery for characterization of Avena sterilis infestations. Part B: Efficiency and economics of control. Precision Agriculture, 2012, 13, 337-350.	3.1	8
46	Parameter estimation of q-Gaussian Radial Basis Functions Neural Networks with a Hybrid Algorithm for binary classification. Neurocomputing, 2012, 75, 123-134.	3.5	33
47	Object-based crop identification using multiple vegetation indices, textural features and crop phenology. Remote Sensing of Environment, 2011, 115, 1301-1316.	4.6	488
48	Sunflower yield related to multi-temporal aerial photography, land elevation and weed infestation. Precision Agriculture, 2010, 11, 568-585.	3.1	19
49	A logistic radial basis function regression method for discrimination of cover crops in olive orchards. Expert Systems With Applications, 2010, 37, 8432-8444.	4.4	8
50	Spectral discrimination of wild oat and canary grass in wheat fields for less herbicide application. Agronomy for Sustainable Development, 2010, 30, 689-699.	2.2	43
51	Classifying Irrigated Crops as Affected by Phenological Stage Using Discriminant Analysis and Neural Networks. Journal of the American Society for Horticultural Science, 2010, 135, 465-473.	0.5	11
52	Object- and pixel-based analysis for mapping crops and their agro-environmental associated measures using QuickBird imagery. Computers and Electronics in Agriculture, 2009, 68, 207-215.	3.7	206
53	A digital elevation model to aid geostatistical mapping of weeds in sunflower crops. Agronomy for Sustainable Development, 2009, 29, 391-400.	2.2	18
54	Discriminating cropping systems and agro-environmental measures by remote sensing. Agronomy for Sustainable Development, 2008, 28, 355-362.	2.2	18

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55	Multispectral classification of grass weeds and wheat (Triticum durum) using linear and nonparametric functional discriminant analysis and neural networks. Weed Research, 2008, 48, 28-37.	0.8	44
56	Mapping sunflower yield as affected by Ridolfia segetum patches and elevation by applying evolutionary product unit neural networks to remote sensed data. Computers and Electronics in Agriculture, 2008, 60, 122-132.	3.7	29
57	Automatic assessment of agro-environmental indicators from remotely sensed images of tree orchards and its evaluation using olive plantations. Computers and Electronics in Agriculture, 2008, 61, 179-191.	3.7	33
58	Logistic regression product-unit neural networks for mapping Ridolfia segetum infestations in sunflower crop using multitemporal remote sensed data. Computers and Electronics in Agriculture, 2008, 64, 293-306.	3.7	43
59	Feature Selection for Hybrid Neuro-Logistic Regression Applied to Classification of Remote Sensed Data. , 2008, , .		3
60	Mapping Ridolfia segetum patches in sunflower crop using remote sensing. Weed Research, 2007, 47, 164-172.	0.8	34
61	Assessing Nitrogen and Potassium Deficiencies in Olive Orchards through Discriminant Analysis of Hyperspectral Data. Journal of the American Society for Horticultural Science, 2007, 132, 611-618.	0.5	42
62	Spectral discrimination of Ridolfia segetum and sunflower as affected by phenological stage. Weed Research, 2006, 46, 10-21.	0.8	40
63	Using geostatistical and remote sensing approaches for mapping soil properties. European Journal of Agronomy, 2005, 23, 279-289.	1.9	108
64	Assessing land-use in olive groves from aerial photographs. Agriculture, Ecosystems and Environment, 2004, 103, 117-122.	2.5	29