

JosÃ© Manuel PeÃ±a

List of Publications by Year in descending order

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64
papers

4,751
citations

117453

34
h-index

123241

61
g-index

64
all docs

64
docs citations

64
times ranked

4351
citing authors

#	ARTICLE	IF	CITATIONS
1	Object-based crop identification using multiple vegetation indices, textural features and crop phenology. <i>Remote Sensing of Environment</i> , 2011, 115, 1301-1316.	4.6	488
2	Multi-temporal mapping of the vegetation fraction in early-season wheat fields using images from UAV. <i>Computers and Electronics in Agriculture</i> , 2014, 103, 104-113.	3.7	365
3	Weed Mapping in Early-Season Maize Fields Using Object-Based Analysis of Unmanned Aerial Vehicle (UAV) Images. <i>PLoS ONE</i> , 2013, 8, e77151.	1.1	282
4	Configuration and Specifications of an Unmanned Aerial Vehicle (UAV) for Early Site Specific Weed Management. <i>PLoS ONE</i> , 2013, 8, e58210.	1.1	230
5	An automatic object-based method for optimal thresholding in UAV images: Application for vegetation detection in herbaceous crops. <i>Computers and Electronics in Agriculture</i> , 2015, 114, 43-52.	3.7	222
6	Object- and pixel-based analysis for mapping crops and their agro-environmental associated measures using QuickBird imagery. <i>Computers and Electronics in Agriculture</i> , 2009, 68, 207-215.	3.7	206
7	An Automatic Random Forest-OBIA Algorithm for Early Weed Mapping between and within Crop Rows Using UAV Imagery. <i>Remote Sensing</i> , 2018, 10, 285.	1.8	188
8	High-Throughput 3-D Monitoring of Agricultural-Tree Plantations with Unmanned Aerial Vehicle (UAV) Technology. <i>PLoS ONE</i> , 2015, 10, e0130479.	1.1	183
9	Object-Based Image Classification of Summer Crops with Machine Learning Methods. <i>Remote Sensing</i> , 2014, 6, 5019-5041.	1.8	152
10	A semi-supervised system for weed mapping in sunflower crops using unmanned aerial vehicles and a crop row detection method. <i>Applied Soft Computing Journal</i> , 2015, 37, 533-544.	4.1	145
11	Early season weed mapping in sunflower using UAV technology: variability of herbicide treatment maps against weed thresholds. <i>Precision Agriculture</i> , 2016, 17, 183-199.	3.1	144
12	Quantifying Efficacy and Limits of Unmanned Aerial Vehicle (UAV) Technology for Weed Seedling Detection as Affected by Sensor Resolution. <i>Sensors</i> , 2015, 15, 5609-5626.	2.1	136
13	Selecting patterns and features for between- and within- crop-row weed mapping using UAV-imagery. <i>Expert Systems With Applications</i> , 2016, 47, 85-94.	4.4	132
14	Assessing Optimal Flight Parameters for Generating Accurate Multispectral Orthomosaics by UAV to Support Site-Specific Crop Management. <i>Remote Sensing</i> , 2015, 7, 12793-12814.	1.8	128
15	Using geostatistical and remote sensing approaches for mapping soil properties. <i>European Journal of Agronomy</i> , 2005, 23, 279-289.	1.9	108
16	Is the current state of the art of weed monitoring suitable for site-specific weed management in arable crops?. <i>Weed Research</i> , 2018, 58, 259-272.	0.8	105
17	Assessing UAV-collected image overlap influence on computation time and digital surface model accuracy in olive orchards. <i>Precision Agriculture</i> , 2018, 19, 115-133.	3.1	97
18	Quantifying pruning impacts on olive tree architecture and annual canopy growth by using UAV-based 3D modelling. <i>Plant Methods</i> , 2017, 13, 55.	1.9	90

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19	3-D Characterization of Vineyards Using a Novel UAV Imagery-Based OBIA Procedure for Precision Viticulture Applications. <i>Remote Sensing</i> , 2018, 10, 584.	1.8	87
20	Mapping the 3D structure of almond trees using UAV acquired photogrammetric point clouds and object-based image analysis. <i>Biosystems Engineering</i> , 2018, 176, 172-184.	1.9	75
21	Comparing UAV-Based Technologies and RGB-D Reconstruction Methods for Plant Height and Biomass Monitoring on Grass Ley. <i>Sensors</i> , 2019, 19, 535.	2.1	70
22	Object-based early monitoring of a grass weed in a grass crop using high resolution UAV imagery. <i>Agronomy for Sustainable Development</i> , 2016, 36, 1.	2.2	66
23	Evaluation of pixel- and object-based approaches for mapping wild oat (<i>Avena sterilis</i>) weed patches in wheat fields using QuickBird imagery for site-specific management. <i>European Journal of Agronomy</i> , 2014, 59, 57-66.	1.9	61
24	Airborne multi-spectral imagery for mapping cruciferous weeds in cereal and legume crops. <i>Precision Agriculture</i> , 2012, 13, 302-321.	3.1	60
25	UAVs for Vegetation Monitoring: Overview and Recent Scientific Contributions. <i>Remote Sensing</i> , 2021, 13, 2139.	1.8	60
26	A Comparison of UAV and Satellites Multispectral Imagery in Monitoring Onion Crop. An Application in the "Cipolla Rossa di Tropea" (Italy). <i>Remote Sensing</i> , 2020, 12, 3424.	1.8	48
27	Multispectral classification of grass weeds and wheat (<i>Triticum durum</i>) using linear and nonparametric functional discriminant analysis and neural networks. <i>Weed Research</i> , 2008, 48, 28-37.	0.8	44
28	Logistic regression product-unit neural networks for mapping <i>Ridolfia segetum</i> infestations in sunflower crop using multitemporal remote sensed data. <i>Computers and Electronics in Agriculture</i> , 2008, 64, 293-306.	3.7	43
29	Spectral discrimination of wild oat and canary grass in wheat fields for less herbicide application. <i>Agronomy for Sustainable Development</i> , 2010, 30, 689-699.	2.2	43
30	Assessing Nitrogen and Potassium Deficiencies in Olive Orchards through Discriminant Analysis of Hyperspectral Data. <i>Journal of the American Society for Horticultural Science</i> , 2007, 132, 611-618.	0.5	42
31	Spectral discrimination of <i>Ridolfia segetum</i> and sunflower as affected by phenological stage. <i>Weed Research</i> , 2006, 46, 10-21.	0.8	40
32	Accurate ortho-mosaicked six-band multispectral UAV images as affected by mission planning for precision agriculture proposes. <i>International Journal of Remote Sensing</i> , 2017, 38, 2161-2176.	1.3	37
33	Automatic UAV-based detection of <i>Cynodon dactylon</i> for site-specific vineyard management. <i>PLoS ONE</i> , 2019, 14, e0218132.	1.1	37
34	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. <i>Remote Sensing</i> , 2018, 10, 1745.	1.8	36
35	Mapping <i>Ridolfia segetum</i> patches in sunflower crop using remote sensing. <i>Weed Research</i> , 2007, 47, 164-172.	0.8	34
36	Automatic assessment of agro-environmental indicators from remotely sensed images of tree orchards and its evaluation using olive plantations. <i>Computers and Electronics in Agriculture</i> , 2008, 61, 179-191.	3.7	33

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37	Parameter estimation of q-Gaussian Radial Basis Functions Neural Networks with a Hybrid Algorithm for binary classification. <i>Neurocomputing</i> , 2012, 75, 123-134.	3.5	33
38	Spatial Quality Evaluation of Resampled Unmanned Aerial Vehicle-Imagery for Weed Mapping. <i>Sensors</i> , 2015, 15, 19688-19708.	2.1	33
39	Applying Neural Networks to Hyperspectral and Multispectral Field Data for Discrimination of Cruciferous Weeds in Winter Crops. <i>Scientific World Journal</i> , The, 2012, 2012, 1-11.	0.8	32
40	Assessing land-use in olive groves from aerial photographs. <i>Agriculture, Ecosystems and Environment</i> , 2004, 103, 117-122.	2.5	29
41	Mapping sunflower yield as affected by <i>Ridolfia segetum</i> patches and elevation by applying evolutionary product unit neural networks to remote sensed data. <i>Computers and Electronics in Agriculture</i> , 2008, 60, 122-132.	3.7	29
42	Mapping <i>Cynodon Dactylon</i> Infesting Cover Crops with an Automatic Decision Tree-OBIA Procedure and UAV Imagery for Precision Viticulture. <i>Remote Sensing</i> , 2020, 12, 56.	1.8	29
43	Estimating tree height and biomass of a poplar plantation with image-based UAV technology. <i>AIMS Agriculture and Food</i> , 2018, 3, 313-323.	0.8	29
44	Watson on the Farm: Using Cloud-Based Artificial Intelligence to Identify Early Indicators of Water Stress. <i>Remote Sensing</i> , 2019, 11, 2645.	1.8	25
45	Underlying causes of yield spatial variability and potential for precision management in rice systems. <i>Precision Agriculture</i> , 2013, 14, 512-540.	3.1	24
46	Sunflower yield related to multi-temporal aerial photography, land elevation and weed infestation. <i>Precision Agriculture</i> , 2010, 11, 568-585.	3.1	19
47	Discriminating cropping systems and agro-environmental measures by remote sensing. <i>Agronomy for Sustainable Development</i> , 2008, 28, 355-362.	2.2	18
48	A digital elevation model to aid geostatistical mapping of weeds in sunflower crops. <i>Agronomy for Sustainable Development</i> , 2009, 29, 391-400.	2.2	18
49	Machine learning paradigms for weed mapping via unmanned aerial vehicles. , 2016, , .		17
50	High-Throughput Phenotyping of Bioethanol Potential in Cereals Using UAV-Based Multi-Spectral Imagery. <i>Frontiers in Plant Science</i> , 2019, 10, 948.	1.7	17
51	Classifying Irrigated Crops as Affected by Phenological Stage Using Discriminant Analysis and Neural Networks. <i>Journal of the American Society for Horticultural Science</i> , 2010, 135, 465-473.	0.5	11
52	Sectioning remote imagery for characterization of <i>Avena sterilis</i> infestations. Part A: Weed abundance. <i>Precision Agriculture</i> , 2012, 13, 322-336.	3.1	10
53	Understanding the errors in input prescription maps based on high spatial resolution remote sensing images. <i>Precision Agriculture</i> , 2012, 13, 581-593.	3.1	9
54	A logistic radial basis function regression method for discrimination of cover crops in olive orchards. <i>Expert Systems With Applications</i> , 2010, 37, 8432-8444.	4.4	8

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55	Sectioning remote imagery for characterization of <i>Avena sterilis</i> infestations. Part B: Efficiency and economics of control. <i>Precision Agriculture</i> , 2012, 13, 337-350.	3.1	8
56	Mapping tillage direction and contour farming by object-based analysis of UAV images. <i>Computers and Electronics in Agriculture</i> , 2021, 187, 106281.	3.7	8
57	Assessment of the Persistence of <i>Avena sterilis</i> L. Patches in Wheat Fields for Site-Specific Sustainable Management. <i>Agronomy</i> , 2019, 9, 30.	1.3	7
58	Experimental approach to detect water stress in ornamental plants using sUAS-imagery. , 2018, , .		6
59	An Experimental Comparison for the Identification of Weeds in Sunflower Crops via Unmanned Aerial Vehicles and Object-Based Analysis. <i>Lecture Notes in Computer Science</i> , 2015, , 252-262.	1.0	4
60	Feature Selection for Hybrid Neuro-Logistic Regression Applied to Classification of Remote Sensed Data. , 2008, , .		3
61	Semiautomatic Detection of Artificial Terrestrial Targets for Remotely Sensed Image Georeferencing. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 184-188.	1.4	3
62	Census Parcels Cropping System Classification from Multitemporal Remote Imagery: A Proposed Universal Methodology. <i>PLoS ONE</i> , 2015, 10, e0117551.	1.1	2
63	Mapas de calendario de cultivo y variables fenológicas mediante el análisis de imágenes MODIS y ASTER basado en objetos. <i>Revista De Teledeteccion</i> , 2014, .	0.6	2
64	Detección de malas hierbas en girasol en fase temprana mediante imágenes tomadas con un vehículo aéreo no tripulado (UAV). <i>Revista De Teledeteccion</i> , 2014, , 39.	0.6	1