Joaquim JoÃ£o Sousa

List of Publications by Year
in descending order

77 papers	2,300 citations	361296 20 h-index	223716 46 g-index
77 all docs	77 docs citations	77 times ranked	2825 citing authors

#	Article	IF	Citations
1	Hyperspectral Imaging: A Review on UAV-Based Sensors, Data Processing and Applications for Agriculture and Forestry. Remote Sensing, 2017, 9, 1110.	1.8	748
2	UAS, sensors, and data processing in agroforestry: a review towards practical applications. International Journal of Remote Sensing, 2017, 38, 2349-2391.	1.3	242
3	Forestry Remote Sensing from Unmanned Aerial Vehicles: A Review Focusing on the Data, Processing and Potentialities. Remote Sensing, 2020, 12, 1046.	1.8	136
4	Persistent Scatterer InSAR: A comparison of methodologies based on a model of temporal deformation vs. spatial correlation selection criteria. Remote Sensing of Environment, 2011, 115, 2652-2663.	4.6	111
5	PS-InSAR processing methodologies in the detection of field surface deformationâ€"Study of the Granada basin (Central Betic Cordilleras, southern Spain). Journal of Geodynamics, 2010, 49, 181-189.	0.7	80
6	Bridge Displacements Monitoring Using Space-Borne X-Band SAR Interferometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 205-210.	2.3	80
7	mySense: A comprehensive data management environment to improve precision agriculture practices. Computers and Electronics in Agriculture, 2019, 162, 882-894.	3.7	68
8	Smartphone Applications Targeting Precision Agriculture Practicesâ€"A Systematic Review. Agronomy, 2020, 10, 855.	1.3	61
9	Multi-Temporal Vineyard Monitoring through UAV-Based RGB Imagery. Remote Sensing, 2018, 10, 1907.	1.8	54
10	UAV-Based Automatic Detection and Monitoring of Chestnut Trees. Remote Sensing, 2019, 11, 855.	1.8	54
11	Vineyard Variability Analysis through UAV-Based Vigour Maps to Assess Climate Change Impacts. Agronomy, 2019, 9, 581.	1.3	48
12	Potential of Multi-temporal InSAR Techniques for Bridges and Dams Monitoring. Procedia Technology, 2014, 16, 834-841.	1.1	37
13	Effectiveness of Sentinel-2 in Multi-Temporal Post-Fire Monitoring When Compared with UAV Imagery. ISPRS International Journal of Geo-Information, 2020, 9, 225.	1.4	34
14	Vineyard properties extraction combining UAS-based RGB imagery with elevation data. International Journal of Remote Sensing, 2018, 39, 5377-5401.	1.3	30
15	Individual Grapevine Analysis in a Multi-Temporal Context Using UAV-Based Multi-Sensor Imagery. Remote Sensing, 2020, 12, 139.	1.8	30
16	Multi-Temporal Analysis of Forestry and Coastal Environments Using UASs. Remote Sensing, 2018, 10, 24.	1.8	28
17	Automatic Grapevine Trunk Detection on UAV-Based Point Cloud. Remote Sensing, 2020, 12, 3043.	1.8	27
18	A Versatile, Low-Power and Low-Cost IoT Device for Field Data Gathering in Precision Agriculture Practices. Agriculture (Switzerland), 2021, 11, 619.	1.4	25

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19	Deformation monitoring of dam infrastructures via spaceborne MT-InSAR. The case of La ViÃ±uela (MÃ¡laga, southern Spain). Procedia Computer Science, 2018, 138, 346-353.	1.2	24
20	Very high resolution aerial data to support multi-temporal precision agriculture information management. Procedia Computer Science, 2017, 121, 407-414.	1.2	20
21	Vineyard classification using OBIA on UAV-based RGB and multispectral data: A case study in different wine regions. Computers and Electronics in Agriculture, 2022, 196, 106905.	3.7	20
22	Water Hyacinth (Eichhornia crassipes) Detection Using Coarse and High Resolution Multispectral Data. Drones, 2022, 6, 47.	2.7	19
23	Monitoring of Chestnut Trees Using Machine Learning Techniques Applied to UAV-Based Multispectral Data. Remote Sensing, 2020, 12, 3032.	1.8	18
24	Potential of C-Band SAR Interferometry for Dam Monitoring. Procedia Computer Science, 2016, 100, 1103-1114.	1.2	17
25	Unmanned Aerial Systems (UAS) for environmental applications special issue preface. International Journal of Remote Sensing, 2018, 39, 4845-4851.	1.3	17
26	Multi-temporal InSAR evidence of ground subsidence induced by groundwater withdrawal: the Montellano aquifer (SW Spain). Environmental Earth Sciences, 2016, 75, 1.	1.3	15
27	Monitoring and Analyzing Mountain Glacier Surface Movement Using SAR Data and a Terrestrial Laser Scanner: A Case Study of the Himalayas North Slope Glacier Area. Remote Sensing, 2019, 11, 625.	1.8	15
28	Digital Reconstitution of Road Traffic Accidents: A Flexible Methodology Relying on UAV Surveying and Complementary Strategies to Support Multiple Scenarios. International Journal of Environmental Research and Public Health, 2020, 17, 1868.	1.2	15
29	An Efficient Method for Generating UAV-Based Hyperspectral Mosaics Using Push-Broom Sensors. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6515-6531.	2.3	15
30	A Data Mining Approach for Multivariate Outlier Detection in Postprocessing of Multitemporal InSAR Results. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2791-2798.	2.3	14
31	QVigourMap: A GIS Open Source Application for the Creation of Canopy Vigour Maps. Agronomy, 2021, 11, 952.	1.3	14
32	A rapid prototyping tool to produce 360Â° video-based immersive experiences enhanced with virtual/multimedia elements. Procedia Computer Science, 2018, 138, 441-453.	1.2	12
33	Multi-Temporal InSAR Processing Comparison in Presence of High Topography. Procedia Computer Science, 2016, 100, 1181-1190.	1.2	10
34	Proposal of an Information System for an Adaptive Mixed Reality System for Archaeological Sites. Procedia Technology, 2014, 16, 499-507.	1.1	9
35	3D Surface velocity retrieval of mountain glacier using an offset tracking technique applied to ascending and descending SAR constellation data: a case study of the Yiga Glacier. International Journal of Digital Earth, 2019, 12, 614-624.	1.6	9
36	Geohazards Monitoring and Assessment Using Multi-Source Earth Observation Techniques. Remote Sensing, 2021, 13, 4269.	1.8	9

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37	Remote sensing image fusion on 3D scenarios: A review of applications for agriculture and forestry. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102856.	0.9	8
38	Multi-sensor InSAR Deformation Monitoring over Urban Area of Bratislava (Slovakia). Procedia Computer Science, 2016, 100, 1127-1134.	1.2	7
39	Monitoring continuous subsidence in the Costa del Sol (MÃ¡laga province, southern Spanish coast) using ERS-1/2, Envisat, and Sentinel-1A/B SAR interferometry. Procedia Computer Science, 2018, 138, 354-361.	1.2	7
40	Deep Learning-Based Methodological Approach for Vineyard Early Disease Detection Using Hyperspectral Data. , 2018, , .		7
41	Monitoring of an embankment dam in southern Spain based on Sentinel-1 Time-series InSAR. Procedia Computer Science, 2021, 181, 353-359.	1.2	7
42	Factors determining subsidence in urbanized floodplains: evidence from MTâ€InSAR in Seville (southern) Tj ETQq0 0 0 rgBT /Overlock 10	1.2	6
43	Machine learning classification methods in hyperspectral data processing for agricultural applications. , 2018, , .		6
44	Procedural Modeling of Buildings Composed of Arbitrarily-Shaped Floor-Plans: Background, Progress, Contributions and Challenges of a Methodology Oriented to Cultural Heritage. Computers, 2019, 8, 38.	2.1	6
45	VisWebDrone: A Web Application for UAV Photogrammetry Based on Open-Source Software. ISPRS International Journal of Geo-Information, 2020, 9, 679.	1.4	6
46	An efficient method for acquisition of spectral BRDFs in real-world scenarios. Computers and Graphics, 2021, , .	1.4	6
47	Digital Ampelographer: A CNN Based Preliminary Approach. Lecture Notes in Computer Science, 2019, , 258-271.	1.0	6
48	The viStaMPS tool for visualization and manipulation of time series interferometric results. Computers and Geosciences, 2013, 52, 409-421.	2.0	5
49	UAS-based imagery and photogrammetric processing for tree height and crown diameter extraction. , 2018, , .		5
50	Deformation Fringes Detection in SAR interferograms Using Deep Learning. Procedia Computer Science, 2022, 196, 151-158.	1.2	5
51	VineInspector: The Vineyard Assistant. Agriculture (Switzerland), 2022, 12, 730.	1.4	5
52	Multi-temporal InSAR for Deformation Monitoring of the Granada and Padul Faults and the Surrounding Area (Betic Cordillera, Southern Spain). Procedia Technology, 2014, 16, 886-896.	1.1	4
53	Application of Multi-Temporal Interferometric Synthetic Aperture Radar (MT-InSAR) technique to Land Deformation Monitoring in Warri Metropolis, Delta State, Nigeria. Procedia Computer Science, 2016, 100, 1220-1227.	1.2	4
54	UAS-based photogrammetry of cultural heritage sites. , 2018, , .		4

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55	viStaMPS â€“ A Collaborative Project for StaMPS-MTI Results Interpretation. Procedia Technology, 2014, 16, 842-848.	1.1	3
56	Prototyping IoT-Based Virtual Environments: An Approach toward the Sustainable Remote Management of Distributed Mulsemedia Setups. Applied Sciences (Switzerland), 2021, 11, 8854.	1.3	3
57	Classification of an Agrosilvopastoral System Using RGB Imagery from an Unmanned Aerial Vehicle. Lecture Notes in Computer Science, 2019, , 248-257.	1.0	3
58	Potential of Multi-temporal InSAR Techniques for Structural Health Monitoring. , 2015, , .		3
59	A cost-effective instrumented walkway for measuring ground reaction forces in rats to assess gait pattern. Measurement: Journal of the International Measurement Confederation, 2017, 103, 241-249.	2.5	2
60	Deformation Monitoring of the Northern Sector of the Valencia Basin (E Spain) Using Ps-Insar (1993â€“2010). , 2018, , .		2
61	Landslide movement monitoring with ALOS-2 SAR data. IOP Conference Series: Earth and Environmental Science, 2019, 227, 062015.	0.2	2
62	Multi-Temporal InSAR Monitoring of the Beninar Dam (SE Spain). , 2020, , .		2
63	Mysense-Webgis: A Graphical Map Layering-Based Decision Support Tool for Agriculture. , 2020, , .		2
64	Monitoring of Olive Trees Temperatures under Different Irrigation Strategies by UAV Thermal Infrared Imagery. , 2020, , .		2
65	Semantic segmentation of 3D car parts using UAV-based images. Computers and Graphics, 2022, 107, 93-103.	1.4	2
66	A pilot digital image processing approach for detecting vineyard parcels in Douro region through high-resolution aerial imagery. , 2018, , .		1
67	Multivariate Outlier Detection in Postprocessing of Multi-temporal PS-InSAR Results using Deep Learning. Procedia Computer Science, 2021, 181, 1146-1153.	1.2	1
68	Deformation monitoring in Zafarraya Fault and Sierra Tejeda Antiform (Betic Cordillera, Spain) using satellite radar interferometry. , 2015, , .		1
69	Estimation of Leaf Area Index in Chestnut Trees using Multispectral Data from an Unmanned Aerial Vehicle. , 2020, , .		1
70	Analyzing the Fine Tuningâ€™s impact in Grapevine Classification. Procedia Computer Science, 2022, 196, 364-370.	1.2	1
71	Multi-Temporal Insar Monitoring of the Aswan High Dam (Egypt). , 2018, , .		0
72	Use of L-band SAR data for Monitoring Glacier Surging next to Aru Lake. Procedia Computer Science, 2021, 181, 1131-1137.	1.2	0

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73	Terrace Vineyards Detection from UAV Imagery Using Machine Learning: A Preliminary Approach. Lecture Notes in Computer Science, 2021, , 16-26.	1.0	0
74	BRDF Sampling from Hyperspectral Images: A Proof of Concept. , 2021, , .		0
75	MONITORING CRITICAL INFRASTRUCTURE EXPOSED TO ANTHROPOGENIC AND NATURAL HAZARDS USING SATELLITE RADAR INTERFEROMETRY. , 0, , .		0
76	Virtual Environments & Precision Viticulture: A Case Study. , 2021, , .		0
77	Grapevine Varieties Classification Using Machine Learning. Lecture Notes in Computer Science, 2019, , 186-199.	1.0	0