

Antonino Maltese

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

1,320
citations

566801

15
h-index

360668

35
g-index

77
all docs

77
docs citations

77
times ranked

2403
citing authors

#	ARTICLE	IF	CITATIONS
1	Latent heat flux variability and response to drought stress of black poplar: A multi-platform multi-sensor remote and proximal sensing approach to relieve the data scarcity bottleneck. <i>Remote Sensing of Environment</i> , 2022, 268, 112771.	4.6	10
2	Optimizing the Sampling Area across an Old-Growth Forest via UAV-Borne Laser Scanning, GNSS, and Radial Surveying. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 168.	1.4	6
3	Exploring the use of Unmanned Aerial Vehicles (UAVs) with the simplified "triangle"™ technique for soil water content and evaporative fraction retrievals in a Mediterranean setting. <i>International Journal of Remote Sensing</i> , 2021, 42, 1623-1642.	1.3	13
4	A Geostatistical Approach to Map Near-Surface Soil Moisture Through Hyperspatial Resolution Thermal Inertia. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5352-5369.	2.7	11
5	Toward a Comprehensive Dam Monitoring: On-Site and Remote-Retrieved Forcing Factors and Resulting Displacements (GNSS and PS-InSAR). <i>Remote Sensing</i> , 2021, 13, 1543.	1.8	20
6	NRTK, PPP or Static, That Is the Question. Testing Different Positioning Solutions for GNSS Survey. <i>Remote Sensing</i> , 2021, 13, 1406.	1.8	17
7	Forest accessibility, Madonie mountains (northern Sicily, Italy): implementing a GIS decision support system. <i>Journal of Maps</i> , 2021, 17, 476-485.	1.0	5
8	Proximal-Sensing-Powered Modelling of Energy-Water Fluxes in a Vineyard: A Spatial Resolution Analysis. <i>Remote Sensing</i> , 2021, 13, 4699.	1.8	2
9	Using very high resolution (VHR) imagery within a GEOBIA framework for gully mapping: an application to the Calhoun Critical Zone Observatory. <i>Journal of Hydroinformatics</i> , 2020, 22, 219-234.	1.1	5
10	Indoor spectroradiometric characterization of plastic litters commonly polluting the Mediterranean Sea: toward the application of multispectral imagery. <i>Scientific Reports</i> , 2020, 10, 19850.	1.6	19
11	Soil Water Content Diachronic Mapping: An FFT Frequency Analysis of a Temperature-Vegetation Index. <i>Geosciences (Switzerland)</i> , 2020, 10, 23.	1.0	8
12	Post-processing of Pixel and Object-Based Land Cover Classifications of Very High Spatial Resolution Images. <i>Lecture Notes in Computer Science</i> , 2020, , 797-812.	1.0	8
13	Integration of terrestrial laser scanning and UAV-SFM technique to generate a detailed 3D textured model of a heritage building. , 2020, , .		3
14	Validation of HF radar sea surface currents in the Malta-Sicily Channel. <i>Remote Sensing of Environment</i> , 2019, 225, 65-76.	4.6	25
15	Introducing Thermal Inertia for Monitoring Snowmelt Processes With Remote Sensing. <i>Geophysical Research Letters</i> , 2019, 46, 4308-4319.	1.5	11
16	Using Optical and Thermal Data for Tracking Snowmelt Processes in Alpine Area. , 2019, , .		0
17	Assessing the performance of a large-scale irrigation system by estimations of actual evapotranspiration obtained by Landsat satellite images resampled with cubic convolution. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 75, 96-105.	1.4	17
18	Downscaling hydrodynamics features to depict causes of major productivity of Sicilian-Maltese area and implications for resource management. <i>Science of the Total Environment</i> , 2018, 628-629, 815-825.	3.9	14

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19	Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle. <i>Hydrological Sciences Journal</i> , 2018, 63, 169-196.	1.2	151
20	The impact of soil erosion on soil fertility and vine vigor. A multidisciplinary approach based on field, laboratory and remote sensing approaches. <i>Science of the Total Environment</i> , 2018, 622-623, 474-480.	3.9	75
21	On the Use of the Eddy Covariance Latent Heat Flux and Sap Flow Transpiration for the Validation of a Surface Energy Balance Model. <i>Remote Sensing</i> , 2018, 10, 195.	1.8	15
22	Monitoring Water Surface and Level of a Reservoir Using Different Remote Sensing Approaches and Comparison with Dam Displacements Evaluated via GNSS. <i>Remote Sensing</i> , 2018, 10, 71.	1.8	69
23	On the Use of Unmanned Aerial Systems for Environmental Monitoring. <i>Remote Sensing</i> , 2018, 10, 641.	1.8	433
24	Evaluation of different InSAR multi-baseline construction methods over a dam in southern Italy. , 2018, , .		0
25	Special Section Guest Editorial: Advances in Agro-Hydrological Remote Sensing for Water Resources Conservation. <i>Journal of Applied Remote Sensing</i> , 2018, 12, 1.	0.6	0
26	Assessing the Performance of Thermal Inertia and Hydrus Models to Estimate Surface Soil Water Content. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 975.	1.3	12
27	Power Sensitivity Analysis of Multi-Frequency, Multi-Polarized, Multi-Temporal SAR Data for Soil-Vegetation System Variables Characterization. <i>Remote Sensing</i> , 2017, 9, 677.	1.8	7
28	Analysis of Technical Criticalities for GIS Modelling an Urban Noise Map. <i>Geographia Technica</i> , 2017, 12, 41-61.	0.2	1
29	Assessing actual evapotranspiration via surface energy balance aiming to optimize water and energy consumption in large scale pressurized irrigation systems. , 2017, , .		0
30	Detection of a reservoir water level using shape similarity metrics. , 2017, , .		1
31	Soil water content assessment: seasonal effects on the triangle method. , 2016, , .		0
32	Daytime sensible heat flux estimation over heterogeneous surfaces using multitemporal landâ€s surface temperature observations. <i>Water Resources Research</i> , 2016, 52, 3457-3476.	1.7	14
33	Robustified smoothing for enhancement of thermal image sequences affected by clouds. , 2015, , .		3
34	Testing two temporal upscaling schemes for the estimation of the time variability of the actual evapotranspiration. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
35	Soil Water Content Assessment: Critical Issues Concerning the Operational Application of the Triangle Method. <i>Sensors</i> , 2015, 15, 6699-6718.	2.1	25
36	Batch Methods for Resolution Enhancement of TIR Image Sequences. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 3372-3385.	2.3	9

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37	An interpolation-based data fusion scheme for enhancing the resolution of thermal image sequences. , 2014, , .		5
38	Monitoring displacements of an earthen dam using GNSS and remote sensing. , 2014, , .		8
39	Surface soil water content estimation based on thermal inertia and Bayesian smoothing. Proceedings of SPIE, 2014, , .	0.8	0
40	E.O.-based estimation of transpiration and crop water requirements for vineyards: a case study in southern Italy. , 2014, , .		0
41	The synergy of water quality and sea surface currents data in determining the spatio-temporal evolution of large-scale circulation features. , 2014, , .		1
42	Critical analysis of thermal inertia approaches for surface soil water content retrieval. Hydrological Sciences Journal, 2013, 58, 1144-1161.	1.2	34
43	Mapping soil water content under sparse vegetation and changeable sky conditions: comparison of two thermal inertia approaches. Journal of Applied Remote Sensing, 2013, 7, 073548.	0.6	11
44	Investigating the Relationship between X-Band SAR Data from COSMO-SkyMed Satellite and NDVI for LAI Detection. Remote Sensing, 2013, 5, 1389-1404.	1.8	25
45	Coupling two radar backscattering models to assess soil roughness and surface water content at farm scale. Hydrological Sciences Journal, 2013, 58, 1677-1689.	1.2	17
46	Assessing daily actual evapotranspiration through energy balance: an experiment to evaluate the selfpreservation hypothesis with acquisition time. Proceedings of SPIE, 2013, , .	0.8	4
47	Coupling SAR X-band and optical data for NDVI retrieval: model calibration and validation on two test areas. Proceedings of SPIE, 2013, , .	0.8	0
48	Soil water content monitoring: a verification of thermal inertia approaches on low spatial, high temporal resolutions images. Proceedings of SPIE, 2013, , .	0.8	3
49	Coastal zone water quality: calibration of a water-turbidity equation for MODIS data. European Journal of Remote Sensing, 2013, 46, 333-347.	1.7	6
50	A validation of a thermal inertia approach to map soil water content on soils characterized by low fractional cover. Proceedings of SPIE, 2013, , .	0.8	2
51	On the relationship between some production parameters and a vegetation index in viticulture. , 2013, , .		1
52	Enhancing TIR image resolution via bayesian smoothing for IRRISAT irrigation management project. Proceedings of SPIE, 2013, , .	0.8	5
53	Thermal Inertia Modeling for Soil Surface Water Content Estimation: A Laboratory Experiment. Soil Science Society of America Journal, 2012, 76, 92-100.	1.2	52
54	An integrated information system for the acquisition, management and sharing of environmental data aimed to decision making. , 2012, , .		2

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55	Critical analysis of the thermal inertia approach to map soil water content under sparse vegetation and changeable sky conditions. Proceedings of SPIE, 2012, , .	0.8	6
56	Planktothrix rubescens in freshwater reservoirs: remote sensing potentiality for mapping cell density. Proceedings of SPIE, 2012, , .	0.8	2
57	Vegetation index retrieval by coupling optical and SAR images. Proceedings of SPIE, 2012, , .	0.8	1
58	Mapping evapotranspiration on vineyards: a comparison between Penman-Monteith and energy balance approaches for operational purposes. , 2012, , .		4
59	Daily evapotranspiration assessment by means of residual surface energy balance modeling: A critical analysis under a wide range of water availability. Journal of Hydrology, 2012, 452-453, 119-129.	2.3	37
60	The Rhynchophorus ferruginous disease of Phoenix canariensis : early detection through proximity thermal sensing. Proceedings of SPIE, 2011, , .	0.8	1
61	On the influences of vegetation biomass on COSMO-SkyMed X-band. Proceedings of SPIE, 2011, , .	0.8	0
62	A diachronic analysis of estuarine turbidity due to a flood following an extreme rainfall event. , 2011, , .		0
63	Monitoring Mediterranean marine pollution using remote sensing and hydrodynamic modelling. , 2011, , .		2
64	Comparing actual evapotranspiration and plant water potential on a vineyard. Proceedings of SPIE, 2011, , .	0.8	1
65	Surface soil humidity retrieval using remote sensing techniques: a triangle method validation. , 2010, , .		8
66	Surface soil humidity retrieval by means of a semi-empirical coupled SAR model. , 2010, , .		2
67	Coupling a hydro-maritime model and remotely sensed techniques to assess the shoreline positioning uncertainty: the Marsala coast study case. , 2010, , .		0
68	Spectroradiometric characteristics of inland water bodies infestated by Oscillatoria rubescens algae. , 2010, , .		0
69	A thermal inertia model for soil water content retrieval using thermal and multispectral images. Proceedings of SPIE, 2010, , .	0.8	11
70	Effects of rainfall events on the evapotranspiration retrieved by an energy balance model. Proceedings of SPIE, 2009, , .	0.8	0
71	Critical analysis of empirical ground heat flux equations on a cereal field using micrometeorological data. , 2009, , .		6
72	Sensitivity analysis on the relationship between vegetation growth and multi-polarized radar data. Proceedings of SPIE, 2009, , .	0.8	3

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73	Estimation of the time lag occurring between vegetation indices and aridity indices in a Sicilian semi-arid catchment. <i>European Journal of Remote Sensing</i> , 2009, , 33-46.	0.2	8
74	A sensitivity analysis of a surface energy balance model to LAI (Leaf Area Index). <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
75	Laboratory Measurements of Flow and Turbulence in Discontinuous Distributions of Ligulate Seagrass. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 750-760.	0.7	36
76	Reservoir Monitoring Using Satellite SAR and GNSS: a Case Study in Southern Italy. , 0, , .		1