Andrea Lingua

List of Publications by Year
in descending order

79 papers	1,635 citations	471371 17 h-index	395590 33 g-index
80 all docs	80 docs citations	80 times ranked	1690 citing authors

#	Article	IF	Citations
1	Recent trends in cultural heritage 3D survey: The photogrammetric computer vision approach. Journal of Cultural Heritage, 2018, 32, 257-266.	1.5	143
2	UAV Deployment Exercise for Mapping Purposes: Evaluation of Emergency Response Applications. Sensors, 2015, 15, 15717-15737.	2.1	124
3	Point Cloud Semantic Segmentation Using a Deep Learning Framework for Cultural Heritage. Remote Sensing, 2020, 12, 1005.	1.8	124
4	Antenna Pattern Verification System Based on a Micro Unmanned Aerial Vehicle (UAV). IEEE Antennas and Wireless Propagation Letters, 2014, 13, 169-172.	2.4	123
5	Performance Analysis of the SIFT Operator for Automatic Feature Extraction and Matching in Photogrammetric Applications. Sensors, 2009, 9, 3745-3766.	2.1	117
6	Detailed geological mapping in mountain areas using an unmanned aerial vehicle: application to the Rodoretto Valley, NW Italian Alps. Geomatics, Natural Hazards and Risk, 2017, 8, 137-149.	2.0	55
7	Medicina array demonstrator: calibration and radiation pattern characterization using a UAV-mounted radio-frequency source. Experimental Astronomy, 2015, 39, 405-421.	1.6	51
8	HBIM-GIS Integration: From IFC to CityGML Standard for Damaged Cultural Heritage in a Multiscale 3D GIS. Applied Sciences (Switzerland), 2020, 10, 1356.	1.3	46
9	UAV PHOTOGRAMMETRY WITH OBLIQUE IMAGES: FIRST ANALYSIS ON DATA ACQUISITION AND PROCESSING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B1, 835-842.	0.2	42
10	UAV PHOTOGRAMMETRY WITH OBLIQUE IMAGES: FIRST ANALYSIS ON DATA ACQUISITION AND PROCESSING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B1, 835-842.	0.2	40
11	An Image-Based Approach for the Co-Registration of Multi-Temporal UAV Image Datasets. Remote Sensing, 2016, 8, 779.	1.8	39
12	Reconnaissance of 2016 Central Italy Earthquake Sequence. Earthquake Spectra, 2018, 34, 1547-1555.	1.6	36
13	A BENCHMARK FOR LARGE-SCALE HERITAGE POINT CLOUD SEMANTIC SEGMENTATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 1419-1426.	0.2	33
14	SKA aperture array verification system: electromagnetic modeling and beam pattern measurements using a micro UAV. Experimental Astronomy, 2018, 45, 1-20.	1.6	32
15	DEEP LEARNING FOR SEMANTIC SEGMENTATION OF 3D POINT CLOUD. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W15, 735-742.	0.2	30
16	Near-Field Experimental Verification of the EM Models for the LOFAR Radio Telescope. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 613-616.	2.4	26
17	THE INFLUENCE OF FLIGHT PLANNING AND CAMERA ORIENTATION IN UAVs PHOTOGRAMMETRY. A TEST IN THE AREA OF ROCCA SAN SILVESTRO (LI), TUSCANY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W3, 163-170.	0.2	26
18	DIRECT PHOTOGRAMMETRY USING UAV: TESTS AND FIRST RESULTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1/W2, 81-86.	0.2	25

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19	From MAD to SAD: The Italian experience for the low‑frequency aperture array of SKA1‑LOW. Radio Science, 2016, 51, 160-175.	0.8	24
20	3D MODEL GENERATION USING OBLIQUE IMAGES ACQUIRED BY UAV. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W2, 107-115.	0.2	23
21	Crime Scene Reconstruction Using a Fully Geomatic Approach. Sensors, 2008, 8, 6280-6302.	2.1	22
22	Mobile mapping systems and spatial data collection strategies assessment in the identification of horizontal alignment of highways. Transportation Research Part C: Emerging Technologies, 2017, 79, 257-273.	3.9	22
23	Strong Mutual Coupling Effects on LOFAR: Modeling and <italic>In Situ</italic> Validation. IEEE Transactions on Antennas and Propagation, 2018, 66, 2581-2588.	3.1	22
24	HBIM IN A SEMANTIC 3D GIS DATABASE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 857-865.	0.2	22
25	Inertial sensors for smartphones navigation. SpringerPlus, 2015, 4, 834.	1.2	21
26	UAV-based antenna and field measurements. , 2016, , .		17
27	Indoor navigation using Smartphone technology: A future challenge or an actual possibility?. , 2014, , .		16
28	A methodology for acquisition and processing of thermal data acquired by UAVs: a test about subfluvial springs' investigations. Geomatics, Natural Hazards and Risk, 2017, 8, 5-17.	2.0	16
29	The Energy Efficiency Management at Urban Scale by Means of Integrated Modelling. Energy Procedia, 2015, 83, 258-268.	1.8	15
30	AN INTEGRATED APPROACH FOR POLLUTION MONITORING: SMART ACQUIREMENT AND SMART INFORMATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-4/W1, 67-74.	0.0	15
31	A EUROPEAN INTEROPERABLE DATABASE (EID) TO INCREASE RESILIENCE OF CULTURAL HERITAGE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3/W4, 151-158.	0.2	15
32	3D modelling of trompe l'oeil decorated vaults using dense matching techniques. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5, 97-104.	0.0	15
33	Rock Mass Characterization by UAV and Close-Range Photogrammetry: A Multiscale Approach Applied along the Vallone dell'Elva Road (Italy). Geosciences (Switzerland), 2021, 11, 436.	1.0	14
34	Low cost mobile mapping systems: an Italian experience. , 2008, , .		12
35	Mapping Riparian Habitats of Natura 2000 Network (91E0*, 3240) at Individual Tree Level Using UAV Multi-Temporal and Multi-Spectral Data. Remote Sensing, 2021, 13, 1756.	1.8	12
36	Sensors integration for smartphone navigation: performances and future challenges. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3, 9-16.	0.2	12

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37	The UAV-based test source as an end-to-end verification tool for aperture arrays. , 2016, , .		11
38	3D MODELING OF GIRIFALCO FORTRESS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W9, 473-478.	0.2	11
39	Bathymetric Detection of Fluvial Environments through UASs and Machine Learning Systems. Remote Sensing, 2020, 12, 4148.	1.8	10
40	Integrated Geophysics and Geomatics Surveys in the Valley of the Kings. Sensors, 2020, 20, 1552.	2.1	10
41	Aperture array for low frequency: The vivaldi solution. , 2013, , .		9
42	GSTOP: a new tool for 3D geomorphological survey and mapping. European Journal of Remote Sensing, 2013, 46, 234-249.	1.7	9
43	An Original Application of Image Recognition Based Location in Complex Indoor Environments. ISPRS International Journal of Geo-Information, 2017, 6, 56.	1.4	9
44	Improving digital tools for Quaternary field survey: a case study of the Rodoretto Valley (NW Italy). Environmental Earth Sciences, 2011, 64, 1487-1495.	1.3	8
45	A didactic project for landscape heritage mapping in post-disaster management. Applied Geomatics, 2015, 7, 49-60.	1.2	8
46	Antenna pattern characterization of the low-frequency receptor of LOFAR by means of an UAV-mounted artificial test source. Proceedings of SPIE, 2016, , .	0.8	8
47	Close range photogrammetry with tablet technology in post-earthquake scenario: Sant'Agostino church in Amatrice. GeoInformatica, 2018, 22, 463-477.	2.0	8
48	UAV IMAGES AND DEEP-LEARNING ALGORITHMS FOR DETECTING FLAVESCENCE DOREE DISEASE IN GRAPEVINE ORCHARDS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2020, 1483-1489.	0.2	8
49	GIMPHI: a new integration approach for early impact assessment. Applied Geomatics, 2011, 3, 241-249.	1.2	7
50	UAV DIRECT GEOREFERENCING APPROACH IN AN EMERGENCY MAPPING CONTEXT. THE 2016 CENTRAL ITALY EARTHQUAKE CASE STUDY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 247-253.	0.2	7
51	HIGH-LEVEL-OF-DETAIL SEMANTIC 3D GIS FOR RISK AND DAMAGE REPRESENTATION OF ARCHITECTURAL HERITAGE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4, 107-114.	0.2	7
52	Positioning Techniques with Smartphone Technology: Performances and Methodologies in Outdoor and Indoor Scenarios. , 0, , .		6
53	Evaluation Of Mass Market Devices For The Documentation Of The Cultural Heritage. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5, 17-22.	0.2	6
54	GIMPhI: A novel vision-based navigation approach for low cost MMS. , 2010, , .		5

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55	PROGRESS ON ISPRS BENCHMARK ON MULTISENSORY INDOOR MAPPING AND POSITIONING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 1709-1713.	0.2	5
56	Dense 3D Model Generation of a Dam Surface Using UAV for Visual Inspection. Mechanisms and Machine Science, 2019, , 151-162.	0.3	5
57	Documenting cultural heritage in an INSPIRE-based 3D GIS for risk and vulnerability analysis. Journal of Cultural Heritage Management and Sustainable Development, 2022, ahead-of-print, .	0.5	5
58	Sardinia Array Demonstrator: Instrument overview and status. , 2015, , .		4
59	Cartographic data harmonisation for a cross-border project development. Applied Geomatics, 2016, 8, 133-150.	1.2	4
60	An INSPIRE-compliant open-source GIS for fire-fighting management. Natural Hazards, 2018, 90, 623-637.	1.6	4
61	Ice Detection on Aircraft Surface Using Machine Learning Approaches Based on Hyperspectral and Multispectral Images. Drones, 2020, 4, 45.	2.7	4
62	UAV AND CLOSE-RANGE PHOTOGRAMMETRY TO SUPPORT GEO-MECHANICAL ANALYSIS IN SAFETY ROAD MANAGEMENT: THE â€œVALLONE Dâ€™ELVAâ€•ROAD. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 1159-1166.	0.2	4
63	Integration of airborne laser scanner and multi-image techniques for map production. , 2010, , .		3
64	Recent results on the characterization of the LOFAR radio telescope by means of a micro UAV. , 2017, , .		3
65	3D roof model generation and analysis supporting solar system positioning. Geomatica, 2017, 71, 137-153.	0.5	3
66	Landslide Susceptibility Zoning Using GIS Tools: An Application in the Germanasca Valley (NW Italy). , 2015, , 177-181.		3
67	The SKA Aperture Array Verification System: Measured Digitally-Beam-Formed Radiation Patterns. , 2019, , .		2
68	The impact of innovative and emerging technologies on the surveying activities. Applied Geomatics, 2020, 12, 1-2.	1.2	2
69	Automatic Features Detection in a Fluvial Environment through Machine Learning Techniques Based on UAVs Multispectral Data. Remote Sensing, 2021, 13, 3983.	1.8	2
70	Accurate Positioning and Orientation Estimation in Urban Environment Based on 3D Models. Lecture Notes in Computer Science, 2015, , 185-192.	1.0	2
71	UAV PHOTOGRAMMETRY AND VHR SATELLITE IMAGERY FOR EMERGENCY MAPPING. THE OCTOBER 2020 FLOOD IN LIMONE PIEMONTE (ITALY). International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2021, 727-734.	0.2	1
72	A Low-Cost Solution for the Monitoring of Air Pollution Parameters Through Bicycles. Lecture Notes in Computer Science, 2017, , 105-120.	1.0	1

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73	DATA OPTIMIZATION FOR 3D MODELING AND ANALYSIS OF A FORTRESS ARCHITECTURE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 809-813.	0.2	1
74	RELIABILITY OF THE GEOMETRIC CALIBRATION OF AN HYPERSPECTRAL FRAME CAMERA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 1701-1707.	0.2	1
75	ICE DETECTION ON AIRPLANE WINGS USING A PHOTOGRAMMETRIC POINT CLOUD: A SIMULATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 183-189.	0.2	1
76	A Python Customization of Metashape for Quasi Real-Time Photogrammetry in Precision Agriculture Application. Communications in Computer and Information Science, 2020, , 229-243.	0.4	1
77	Electromagnetic Characterization of Installed Antennas Through UAVs. Mechanisms and Machine Science, 2018, , 471-482.	0.3	0
78	GEOMATIC TECHNIQUES FOR THE OPTIMIZATION OF SKI RESOURCES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 1009-1016.	0.2	0
79	Living Lab Experience in Turin: Lifestyles and Exposure to Black Carbon. International Journal of Environmental Research and Public Health, 2022, 19, 3866.	1.2	0