Mattia Crespi

List of Publications by Year
in descending order

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107	1,695	331670	345221
papers	citations	21 h-index	36 g-index

116	116	116	1825
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The integration between seismology and geodesy for intermediate-term narrow-range earthquake prediction according to NDSHA. , 2022, , 97-112.		1
2	High-rate GPS positioning for tracing anthropogenic seismic activity: The 29 January 2019 mining tremor in Legnica- GÅ‚ogÃ³w Copper District, Poland. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108396.	5.0	14
3	DSM Generation from Single and Cross-Sensor Multi-View Satellite Images Using the New Agisoft Metashape: The Case Studies of Trento and Matera (Italy). Remote Sensing, 2021, 13, 593.	4.0	14
4	GNSS total variometric approach: first demonstration of a tool for real-time tsunami genesis estimation. Scientific Reports, 2021, 11, 3114.	3.3	22
5	Drought trend analysis in a semi-arid area of Iraq based on Normalized Difference Vegetation Index, Normalized Difference Water Index and Standardized Precipitation Index. Journal of Arid Land, 2021, 13, 413-430.	2.3	12
6	High-precision multi-constellation GNSS: methods, selected applications and challenges. Measurement Science and Technology, 2020, 31, 010101.	2.6	18
7	Space-Time Precursory Features within Ground Velocities and Seismicity in North-Central Italy. Pure and Applied Geophysics, 2020, 177, 369-386.	1.9	13
8	Editorial for the Special Issue: â€œHigh-Precision GNSS: Methods, Open Problems and Geoscience Applicationsâ€• Remote Sensing, 2020, 12, 1602.	4.0	0
9	Course of oesophageal varices and performance of noninvasive predictors following Hepatitis C Virus clearance in compensated advanced chronic liver disease. European Journal of Clinical Investigation, 2020, 50, e13231.	3.4	8
10	COSMO-SkyMed Range Measurements for Displacement Monitoring Using Amplitude Persistent Scatterers. , 2020, , .		2
11	Tids Detection from Ship-Based GNSS Receiver: First Test on 2010 Maule Tsunami. , 2020, , .		3
12	Large Scale Assessment of Free Global DEMs Through the Google Earth Engine Platform. , 2020, , .		2
13	First Test of Agisoft Metashape Satellite Image Processing for DSM Generation: A Case Study in Trento with PlÃ©iades Imagery. , 2020, , .		1
14	Foreword to the European journal of remote sensing special issue: urban remote sensing â€“ challenges and solutions. European Journal of Remote Sensing, 2019, 52, 1-1.	3.5	2
15	Sea level rise scenario for 2100 A.D. for the archaeological site of Motya. Rendiconti Lincei, 2019, 30, 747-757.	2.2	11
16	Advantages of Geostationary Satellites for Ionospheric Anomaly Studies: Ionospheric Plasma Depletion Following a Rocket Launch. Remote Sensing, 2019, 11, 1734.	4.0	26
17	Orthoimage Generation by GÃ–KTÃœRK-1: A Test Case in Rome. , 2019, , .		1
18	py2DIC: A New Free and Open Source Software for Displacement and Strain Measurements in the Field of Experimental Mechanics. Sensors, 2019, 19, 3832.	3.8	29

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19	Estimation of Wave Characteristics Based on Global Navigation Satellite System Data Installed on Board Sailboats. Sensors, 2019, 19, 2295.	3.8	4
20	Impact of Galileo data on the solutions of the variometric approach for displacement analysis. Advances in Space Research, 2019, 63, 3053-3061.	2.6	3
21	Consumer GNSS chipsets-based, dual-frequency receivers as enablers of precise navigation and dense networks. Measurement Science and Technology, 2019, 30, 044007.	2.6	8
22	Data assimilation of GPS-ZTD into the RAMS model through 3D-Var: preliminary results at the regional scale. Measurement Science and Technology, 2019, 30, 055801.	2.6	17
23	How geodesy can contribute to the understanding and prediction of earthquakes. Rendiconti Lincei, 2018, 29, 81-93.	2.2	10
24	Wave characteristics estimation by GPS receivers installed on a sailboat travelling off-shore. , 2018, , .		3
25	Monitoring the Impact of Land Cover Change on Surface Urban Heat Island through Google Earth Engine: Proposal of a Global Methodology, First Applications and Problems. Remote Sensing, 2018, 10, 1488.	4.0	77
26	Editorial for Special Issue â€œAdvances in SAR: Sensors, Methodologies, and Applicationsâ€• Remote Sensing, 2018, 10, 1233.	4.0	1
27	Precipitable water vapour content from ESR/SKYNET sunâ€“sky radiometers: validation against GNSS/GPS and AERONET over three different sites in Europe. Atmospheric Measurement Techniques, 2018, 11, 81-94.	3.1	27
28	3D modelling of archaeological small finds by the structure sensor range camera: comparison of different scanning applications. Applied Geomatics, 2018, 10, 399-413.	2.5	4
29	Reduction in <scp>TIMP</scp>â€2 serum levels predicts remission of inflammatory bowel diseases. European Journal of Clinical Investigation, 2018, 48, e13002.	3.4	13
30	FOSS4G DATE for DSMs generation from tri-stereo optical satellite images: development and first results. European Journal of Remote Sensing, 2018, 51, 472-485.	3.5	3
31	The variometric approach to real-time high-frequency geodesy. Rendiconti Lincei, 2018, 29, 95-108.	2.2	18
32	VADASE Reliability and Accuracy of Real-Time Displacement Estimation: Application to the Central Italy 2016 Earthquakes. Remote Sensing, 2018, 10, 1201.	4.0	25
33	Open source tool for DSMs generation from high resolution optical satellite imagery: development and testing of an OSSIM plug-in. International Journal of Remote Sensing, 2017, 38, 1788-1808.	2.9	18
34	On the feasibility to integrate low-cost MEMS accelerometers and GNSS receivers. Advances in Space Research, 2017, 59, 2764-2778.	2.6	12
35	Real-Time Detection of Tsunami Ionospheric Disturbances with a Stand-Alone GNSS Receiver: A Preliminary Feasibility Demonstration. Scientific Reports, 2017, 7, 46607.	3.3	86
36	SAR-SIFT for Matching Multiple SAR Images and Radargrammetry. PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, 2017, 85, 149-158.	1.1	6

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37	Multi-Temporal X-Band Radar Interferometry Using Corner Reflectors: Application and Validation at the Corvara Landslide (Dolomites, Italy). Remote Sensing, 2017, 9, 739.	4.0	27
38	GPS Seismology for a moderate magnitude earthquake: Lessons learned from the analysis of the 31 October 2013 ML 6.4 Ruisui (Taiwan) earthquake. Annals of Geophysics, 2017, 60, .	1.0	15
39	Exploiting Performance of Different Low-Cost Sensors for Small Amplitude Oscillatory Motion Monitoring: Preliminary Comparisons in View of Possible Integration. Journal of Sensors, 2016, 2016, 1-10.	1.1	8
40	3D remote sensing and urban remote sensing. International Journal of Remote Sensing, 2016, 37, 3437-3438.	2.9	2
41	Met-Ocean and Heeling Analysis During the Violent 21/22 October 2014 Storm Faced by the Sailboat ECO40 in the Gulf of Lion: Comparison Between Measured and Numerical Wind Data. Communications in Computer and Information Science, 2016, , 86-105.	0.5	2
42	Global and local reference frames. Rendiconti Lincei, 2015, 26, 25-31.	2.2	8
43	Monitoring ground displacements at centimeter level exploiting TerraSAR-X range measurements. , 2015, , .		2
44	VADASE: State of the Art and New Developments of a Third Way to GNSS Seismology. International Association of Geodesy Symposia, 2015, , 59-66.	0.4	16
45	Comparison of Different Techniques for Tropospheric Wet Delay Retrieval Over South America and Surrounding Oceans. International Association of Geodesy Symposia, 2015, , 147-154.	0.4	2
46	Fast terrain modelling for hydrogeological risk mapping and emergency management: the contribution of high-resolution satellite SAR imagery. Geomatics, Natural Hazards and Risk, 2015, 6, 554-582.	4.3	11
47	Geodesy and geomatics: the cutting edge. Rendiconti Lincei, 2015, 26, 1-3.	2.2	4
48	Radargrammetric Digital Surface Models Generation from High Resolution Satellite SAR Imagery: Methodology and Case Studies. International Association of Geodesy Symposia, 2015, , 233-240.	0.4	2
49	Tectonically asymmetric Earth: From net rotation to polarized westward drift of the lithosphere. Geoscience Frontiers, 2015, 6, 401-418.	8.4	23
50	Evaluation and comparison of different radargrammetric approaches for Digital Surface Models generation from COSMO-SkyMed, TerraSAR-X, RADARSAT-2 imagery: Analysis of Beauport (Canada) test site. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 100, 60-70.	11.1	23
51	High Resolution Radargrammetry â€“ 3D Terrain Modeling. , 2014, , .		1
52	Global Navigation Satellite Systems Seismology for the 2012 Mw 6.1 Emilia Earthquake: Exploiting the VADASE Algorithm. Seismological Research Letters, 2014, 85, 649-656.	1.9	47
53	Polarimetric Multifrequency and Multi-incidence SAR Sensors Analysis for Archaeological Purposes. Archaeological Prospection, 2013, 20, 89-96.	2.2	15
54	GPS Near-Real-Time Coseismic Displacements for the Great Tohoku-oki Earthquake. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 372-376.	3.1	49

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55	Strain rate relaxation of normal and thrust faults in Italy. Geophysical Journal International, 2013, 195, 815-820.	2.4	33
56	New Research in Polarimetric SAR Technique for Archaeological Purposes using ALOS PALSAR Data. Archaeological Prospection, 2013, 20, 79-87.	2.2	22
57	Radargrammetric Generation of DEMs from High Resolution Satellite SAR Imagery: A New tool for Landslide Hazard and Vulnerability Assessment. , 2013, , 417-424.		0
58	DSM generation from optical and SAR high resolution satellite imagery: Methodology, problems and potentialities. , 2012, , .		5
59	A multi-sensor polarimetric analysis over archaeological sites. , 2012, , .		2
60	A new rigorous model for high-resolution satellite imagery orientation: application to EROS A and QuickBird. International Journal of Remote Sensing, 2012, 33, 2321-2354.	2.9	20
61	The potential of WorldView-2 for ortho-image production within the â€œControl with Remote Sensing Programmeâ€•of the European Commission. International Journal of Applied Earth Observation and Geoinformation, 2012, 19, 335-347.	2.8	14
62	Measurement of the neutrino velocity with the OPERA detector in the CNGS beam. Journal of High Energy Physics, 2012, 2012, 1.	4.7	116
63	Geodetic strain rate and earthquake size: New clues for seismic hazard studies. Physics of the Earth and Planetary Interiors, 2012, 206-207, 67-75.	1.9	67
64	Multivariate outlier detection based on robust computation of Mahalanobis distances. Application to positioning assisted by RTK GNSS Networks. International Journal of Applied Earth Observation and Geoinformation, 2012, 16, 94-100.	2.8	11
65	A New Continuous GPS Network to Monitor Deformations in the Iberian Peninsula (Topo-Iberia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Symposia, 2012, , 387-392.	0.4	0
66	Real-time GPS seismology with a stand-alone receiver: A preliminary feasibility demonstration. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	115
67	High-Resolution SAR Radargrammetry: A First Application With COSMO-SkyMed SpotLight Imagery. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 1100-1104.	3.1	48
68	DSM generation from very high optical and radar sensors: Problems and potentialities along the road from the 3D geometric modeling to the Surface Model. , 2010, , .		4
69	GeoEye-1: Analysis of Radiometric and Geometric Capability. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 354-369.	0.3	13
70	A Procedure for High Resolution Satellite Imagery Quality Assessment. Sensors, 2009, 9, 3289-3313.	3.8	59
71	Accuracy assessment of high resolution satellite imagery orientation by leave-one-out method. ISPRS Journal of Photogrammetry and Remote Sensing, 2008, 63, 427-440.	11.1	80
72	Reference frames for GNSS positioning services: Some problems and proposed solutions. Journal of Applied Geodesy, 2008, 2, .	1.1	13

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73	Orientation, orthorectification, terrain and city modeling from Cartosat-1 stereo imagery: preliminary results in the first phase of ISPRS-ISRO C-SAP. Journal of Applied Remote Sensing, 2008, 2, 023523.	1.3	3
74	Space geodesy validation of the global lithospheric flow. Geophysical Journal International, 2007, 168, 491-506.	2.4	73
75	Deformations Detection by a Bayesian Approach: Prior Information Representation and Testing Criteria Definition. , 2006, , 30-37.		5
76	A Model of Plate Motions. , 2006, , 200-208.		0
77	Assessment of precipitable water vapour by use of a local GPS network and microwave ground-based radiometer. , 2001, , .		0
78	GPS sensitivity analysis applied to non-permanent deformation control networks. Journal of Geodesy, 1999, 73, 158-167.	3.6	23
79	Software available for analyzing GPS deformation. Eos, 1998, 79, 259-259.	0.1	5
80	Repeated GPS surveys across the Ionian Sea: evidence of crustal deformations. Geophysical Journal International, 1996, 127, 257-267.	2.4	34
81	Employing high resolution satellite images to update urban maps at medium-large scale and its impact in developing countries. , 0, , .		0
82	Preliminary Performance Analysis with a GPS+Galileo Enabled Chipset Embedded in a Smartphone. , 0, , .		27
83	FREE GLOBAL DSM ASSESSMENT ON LARGE SCALE AREAS EXPLOITING THE POTENTIALITIES OF THE INNOVATIVE GOOGLE EARTH ENGINE PLATFORM. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 627-633.	0.2	10
84	DIGITAL IMAGE CORRELATION FROM COMMERCIAL TO FOS SOFTWARE: A MATURE TECHNIQUE FOR FULL-FIELD DISPLACEMENT MEASUREMENTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 91-95.	0.2	6
85	FOSS4G DATE FOR DSM GENERATION: SENSITIVITY ANALYSIS OF THE SEMI-GLOBAL BLOCK MATCHING PARAMETERS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 67-72.	0.2	8
86	3D MODELLING BY LOW-COST RANGE CAMERA: SOFTWARE EVALUATION AND COMPARISON. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W8, 209-212.	0.2	1
87	MONITORING URBAN HEAT ISLAND THROUGH GOOGLE EARTH ENGINE: POTENTIALITIES AND DIFFICULTIES IN DIFFERENT CITIES OF THE UNITED STATES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 1467-1472.	0.2	5
88	COPERNICUS BIG DATA AND GOOGLE EARTH ENGINE FOR GLACIER SURFACE VELOCITY FIELD MONITORING: FEASIBILITY DEMONSTRATION ON SAN RAFAEL AND SAN QUINTIN GLACIERS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-3, 289-294.	0.2	6
89	A NEW DIGITAL IMAGE CORRELATION SOFTWARE FOR DISPLACEMENTS FIELD MEASUREMENT IN STRUCTURAL APPLICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W2, 139-145.	0.2	10
90	3D MODELLING OF ARCHAEOLOGICAL SMALL FINDS BY A LOW-COST RANGE CAMERA: METHODOLOGY AND FIRST RESULTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5/W1, 589-592.	0.2	2

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91	EXPLOITING SENTINEL-1 AMPLITUDE DATA FOR GLACIER SURFACE VELOCITY FIELD MEASUREMENTS: FEASIBILITY DEMONSTRATION ON BALTORO GLACIER. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 783-788.	0.2	2
92	CENTIMETER COSMO-SKYMED RANGE MEASUREMENTS FOR MONITORING GROUND DISPLACEMENTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 815-820.	0.2	2
93	UPGRADE OF FOSS DATE PLUG-IN: IMPLEMENTATION OF A NEW RADARGRAMMETRIC DSM GENERATION CAPABILITY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 821-825.	0.2	2
94	DSM generation from high resolution imagery: applications with WorldView-1 and Geoeye-1. European Journal of Remote Sensing, 0, , 41-53.	0.2	33
95	A radargrammetric orientation model and a RPCs generation tool for COSMO-SkyMed and TerraSAR-X High Resolution SAR. European Journal of Remote Sensing, 0, , 55-67.	0.2	12
96	UPGRADE OF FOSS DATE PLUG-IN: IMPLEMENTATION OF A NEW RADARGRAMMETRIC DSM GENERATION CAPABILITY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 821-825.	0.2	2
97	KINECT V2 AND RGB STEREO CAMERAS INTEGRATION FOR DEPTH MAP ENHANCEMENT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 699-702.	0.2	2
98	CENTIMETER COSMO-SKYMED RANGE MEASUREMENTS FOR MONITORING GROUND DISPLACEMENTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 815-820.	0.2	0
99	EXPLOITING SENTINEL-1 AMPLITUDE DATA FOR GLACIER SURFACE VELOCITY FIELD MEASUREMENTS: FEASIBILITY DEMONSTRATION ON BALTORO GLACIER. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B7, 783-788.	0.2	2
100	FOSS4G DATE ASSESSMENT ON THE ISPRS OPTICAL STEREO SATELLITE DATA: A BENCHMARK FOR DSM GENERATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-1/W1, 635-638.	0.2	0
101	A TOOL FOR CROWDSOURCED BUILDING INFORMATION MODELING THROUGH LOW-COST RANGE CAMERA: PRELIMINARY DEMONSTRATION AND POTENTIAL. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W8, 75-81.	0.2	1
102	ANALYSIS OF THE FLOATING CAR DATA OF TURIN PUBLIC TRANSPORTATION SYSTEM: FIRST RESULTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4, 515-521.	0.2	3
103	Modeling the Near-field Ionospheric Disturbances During Earthquakes. , 0, , .		0
104	URBAN GEO BIG DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-4/W14, 23-30.	0.2	4
105	Pyrgi: analysis of possible climatic effects on a coastal archaeological site. Proceedings E Report, 0, , 17-27.	0.0	0
106	GLACIER VOLUME CHANGE MONITORING FROM UAV OBSERVATIONS: ISSUES AND POTENTIALS OF STATE-OF-THE-ART TECHNIQUES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 1041-1048.	0.2	6
107	TACK PROJECT: TUNNEL AND BRIDGE AUTOMATIC CRACK MONITORING USING DEEP LEARNING AND PHOTOGRAMMETRY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B4-2020, 741-745.	0.2	7