

Mattia Previtali

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

365
citations

9
h-index

18
g-index

35
ext. papers

452
ext. citations

1.8
avg, IF

3.89
L-index

#	Paper	IF	Citations
31	Cloud-to-BIM-to-FEM: Structural simulation with accurate historic BIM from laser scans. <i>Simulation Modelling Practice and Theory</i> , 2015 , 57, 71-87	3.9	102
30	Generative HBIM modelling to embody complexity (LOD, LOG, LOA, LOI): surveying, preservation, site intervention The Basilica di Collemaggio (L'Aquila). <i>Applied Geomatics</i> , 2018 , 10, 545-567	2.2	58
29	Creation of Parametric BIM Objects from Point Clouds Using Nurbs. <i>Photogrammetric Record</i> , 2015 , 30, 339-362	1.7	51
28	Indoor Building Reconstruction from Occluded Point Clouds Using Graph-Cut and Ray-Tracing. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1529	2.6	26
27	HR LOD based HBIM to detect influences on geometry and shape by stereotomic construction techniques of brick vaults. <i>Applied Geomatics</i> , 2018 , 10, 529-543	2.2	16
26	Bearing capacity assessment of a 14th century arch bridge in Lecco (Italy). <i>International Journal of Architectural Heritage</i> , 2018 , 12, 237-256	2.1	14
25	Roads Detection and Parametrization in Integrated BIM-GIS Using LiDAR. <i>Infrastructures</i> , 2020 , 5, 55	2.6	12
24	Image-based deformation measurement. <i>Applied Geomatics</i> , 2015 , 7, 75-90	2.2	11
23	Accurate 3D surface measurement of mountain slopes through a fully automated image-based technique. <i>Earth Science Informatics</i> , 2014 , 7, 109-122	2.5	9
22	An Ontology-Based Representation of Vaulted System for HBIM. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1377	2.6	8
21	Procedures for Condition Mapping Using 360° Images. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 34	2.9	6
20	Close-Range Photogrammetric Techniques for Deformation Measurement: Applications to Landslides 2015 , 13-41		6
19	Virtual museums and built environment: narratives and immersive experience via multi-temporal geodata hub. <i>Virtual Archaeology Review</i> , 2018 , 9, 34	2.9	5
18	HBIM Feeding Open Access Vault Inventory Through GeoDB HUB. <i>Lecture Notes in Computer Science</i> , 2018 , 27-38	0.9	5
17	Stitching and Processing Gnomonic Projections for Close-Range Photogrammetry. <i>Photogrammetric Engineering and Remote Sensing</i> , 2013 , 79, 573-582	1.6	4
16	Building archaeology informative modelling turned into 3D volume stratigraphy and extended reality time-lapse communication. <i>Virtual Archaeology Review</i> , 2022 , 13, 1-21	2.9	4
15	SCAN to HBIM-Post Earthquake Preservation: Informative Model as Sentinel at the Crossroads of Present, Past, and Future. <i>Lecture Notes in Computer Science</i> , 2018 , 39-51	0.9	4

14	An integrated approach for threat assessment and damage identification on built heritage in climate-sensitive territories: the Albenga case study (San Clemente church). <i>Applied Geomatics</i> , 2018 , 10, 485-499	2.2	3
13	A virtual logbook for the documentation of a continuously changing archaeological site: the San Clemente site in Albenga (Italy). <i>Virtual Archaeology Review</i> , 2019 , 10, 56	2.9	3
12	A brokered Virtual Hub approach for the generation of web applications based on historical maps. <i>Applied Geomatics</i> , 2018 , 10, 453-472	2.2	3
11	Existing infrastructure cost effective informative modelling with multisource sensed data: TLS, MMS and photogrammetry. <i>Applied Geomatics</i> , 2020 , 1	2.2	2
10	Simultaneous registration of gnomonic projections and central perspectives. <i>Photogrammetric Record</i> , 2014 , 29, 278-296	1.7	2
9	Handheld 3D Mobile Scanner (SLAM): Data Simulation and Acquisition for BIM Modelling. <i>Communications in Computer and Information Science</i> , 2020 , 256-266	0.3	2
8	Historical Map Registration via Independent Model Adjustment with Affine Transformations. <i>Lecture Notes in Computer Science</i> , 2014 , 44-56	0.9	2
7	Human-Computer Interaction Based on Scan-to-BIM Models, Digital Photogrammetry, Visual Programming Language and eXtended Reality (XR). <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6109	2.6	2
6	Use of Sar Satellite Data in Bridge Monitoring with Application to Urban Areas. <i>Lecture Notes in Civil Engineering</i> , 2021 , 935-955	0.3	2
5	Wrap-Up Synthesis Model from High-Quality HBIM Complex Models, and Specifications, to Assess Built Cultural Heritage in Fragile Territories (Arquata Del Tronto, Earthquake 2016, the Church of St. Francesco, IT). <i>Lecture Notes in Computer Science</i> , 2021 , 100-111	0.9	0
4	Combined Photogrammetric and Laser Scanning Survey to Support Fluvial Sediment Transport Analyses. <i>Lecture Notes in Computer Science</i> , 2020 , 620-633	0.9	
3	A GIS and Remote Sensing Approach for Desertification Sensitivity Assessment of Cultural Landscape in Apulia Region (Italy). <i>Lecture Notes in Computer Science</i> , 2021 , 138-149	0.9	
2	Monitoring of a Metal Bridge Using DInSAR Data. <i>Lecture Notes in Civil Engineering</i> , 2023 , 397-406	0.3	
1	Visualization and Processing of Structural Monitoring Data Using Space-Time Cubes. <i>Lecture Notes in Computer Science</i> , 2022 , 19-31	0.9	