

Mattia Previtali

List of Publications by Year in descending order

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papers

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840119

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24
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35
all docs

35
docs citations

35
times ranked

504
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring of a Metal Bridge Using DInSAR Data. Lecture Notes in Civil Engineering, 2023, , 397-406.	0.3	1
2	Existing infrastructure cost effective informative modelling with multisource sensed data: TLS, MMS and photogrammetry. Applied Geomatics, 2022, 14, 21-40.	1.2	7
3	Building archaeology informative modelling turned into 3D volume stratigraphy and extended reality time-lapse communication. Virtual Archaeology Review, 2022, 13, 1-21.	0.8	19
4	Diachronic and Synchronic Analysis for Knowledge Creation: Architectural Representation Geared to XR Building Archaeology (Claudius-Anio Novus Aqueduct in Tor Fiscale, the Appia Antica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 Td (A	1.0	5
5	Digital Twin and Cloud BIM-XR Platform Development: From Scan-to-BIM-to-DT Process to a 4D Multi-User Live App to Improve Building Comfort, Efficiency and Costs. Energies, 2022, 15, 4497.	1.6	13
6	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.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 53	1.0	2
7	A GIS and Remote Sensing Approach for Desertification Sensitivity Assessment of Cultural Landscape in Apulia Region (Italy). Lecture Notes in Computer Science, 2021, , 138-149.	1.0	2
8	Humanâ€“Computer Interaction Based on Scan-to-BIM Models, Digital Photogrammetry, Visual Programming Language and eXtended Reality (XR). Applied Sciences (Switzerland), 2021, 11, 6109.	1.3	11
9	Use of Sar Satellite Data in Bridge Monitoring with Application to Urban Areas. Lecture Notes in Civil Engineering, 2021, , 935-955.	0.3	2
10	Roads Detection and Parametrization in Integrated BIM-GIS Using LiDAR. Infrastructures, 2020, 5, 55.	1.4	25
11	An Ontology-Based Representation of Vaulted System for HBIM. Applied Sciences (Switzerland), 2020, 10, 1377.	1.3	16
12	Procedures for Condition Mapping Using 360Â° Images. ISPRS International Journal of Geo-Information, 2020, 9, 34.	1.4	12
13	Handheld 3D Mobile Scanner (SLAM): Data Simulation and Acquisition for BIM Modelling. Communications in Computer and Information Science, 2020, , 256-266.	0.4	3
14	Combined Photogrammetric and Laser Scanning Survey to Support Fluvial Sediment Transport Analyses. Lecture Notes in Computer Science, 2020, , 620-633.	1.0	0
15	A virtual logbook for the documentation of a continuously changing archaeological site: the San Clemente site in Albenga (Italy). Virtual Archaeology Review, 2019, 10, 56.	0.8	4
16	HR LOD based HBIM to detect influences on geometry and shape by stereotomic construction techniques of brick vaults. Applied Geomatics, 2018, 10, 529-543.	1.2	34
17	Bearing capacity assessment of a 14th century arch bridge in Lecco (Italy). International Journal of Architectural Heritage, 2018, 12, 237-256.	1.7	18
18	Indoor Building Reconstruction from Occluded Point Clouds Using Graph-Cut and Ray-Tracing. Applied Sciences (Switzerland), 2018, 8, 1529.	1.3	47

#	ARTICLE	IF	CITATIONS
19	A brokered Virtual Hub approach for the generation of web applications based on historical maps. Applied Geomatics, 2018, 10, 453-472.	1.2	7
20	Generative HBIM modelling to embody complexity (LOD, LOG, LOA, LOI): surveying, preservation, site interventionâ€™the Basilica di Collemaggio (Lâ€™Aquila). Applied Geomatics, 2018, 10, 545-567.	1.2	82
21	An integrated approach for threat assessment and damage identification on built heritage in climate-sensitive territories: the Albenga case study (San Clemente church). Applied Geomatics, 2018, 10, 485-499.	1.2	12
22	HBIM Feeding Open Access Vault Inventory Through GeoDB HUB. Lecture Notes in Computer Science, 2018, , 27-38.	1.0	6
23	SCAN to HBIM-Post Earthquake Preservation: Informative Model as Sentinel at the Crossroads of Present, Past, and Future. Lecture Notes in Computer Science, 2018, , 39-51.	1.0	11
24	Virtual museums and built environment: narratives and immersive experience via multi-temporal geodata hub. Virtual Archaeology Review, 2018, 9, 34.	0.8	14
25	Creation of Parametric BIM Objects from Point Clouds Using Nurbs. Photogrammetric Record, 2015, 30, 339-362.	0.4	80
26	Close-Range Photogrammetric Techniques for Deformation Measurement: Applications to Landslides. , 2015, , 13-41.		8
27	Image-based deformation measurement. Applied Geomatics, 2015, 7, 75-90.	1.2	15
28	Cloud-to-BIM-to-FEM: Structural simulation with accurate historic BIM from laser scans. Simulation Modelling Practice and Theory, 2015, 57, 71-87.	2.2	167
29	Simultaneous registration of gnomonic projections and central perspectives. Photogrammetric Record, 2014, 29, 278-296.	0.4	4
30	Accurate 3D surface measurement of mountain slopes through a fully automated image-based technique. Earth Science Informatics, 2014, 7, 109-122.	1.6	13
31	Historical Map Registration via Independent Model Adjustment with Affine Transformations. Lecture Notes in Computer Science, 2014, , 44-56.	1.0	3
32	Stitching and Processing Gnomonic Projections for Close-Range Photogrammetry. Photogrammetric Engineering and Remote Sensing, 2013, 79, 573-582.	0.3	9
33	READING INTEGRITY IN THE LANDSCAPE: METHODSâ€™ COMPARISON ON TICINO AREA. , 0, , .		1
34	PARAMETRIC GENERATION IN HBIM WORKFLOWS FOR SLAM-BASED DATA: DISCUSSING EXPECTATIONS ON SUITABILITY AND ACCURACY. , 0, , .		4