

Mattia Previtali

List of Publications by Year in descending order

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papers

659
citations

840119

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all docs

35
docs citations

35
times ranked

504
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Creation of Parametric BIM Objects from Point Clouds Using Nurbs. Photogrammetric Record, 2015, 30, 339-362.	0.4	80
4	Indoor Building Reconstruction from Occluded Point Clouds Using Graph-Cut and Ray-Tracing. Applied Sciences (Switzerland), 2018, 8, 1529.	1.3	47
5	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
6	Roads Detection and Parametrization in Integrated BIM-GIS Using LiDAR. Infrastructures, 2020, 5, 55.	1.4	25
7	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
8	Bearing capacity assessment of a 14th century arch bridge in Lecco (Italy). International Journal of Architectural Heritage, 2018, 12, 237-256.	1.7	18
9	An Ontology-Based Representation of Vaulted System for HBIM. Applied Sciences (Switzerland), 2020, 10, 1377.	1.3	16
10	Image-based deformation measurement. Applied Geomatics, 2015, 7, 75-90.	1.2	15
11	Virtual museums and built environment: narratives and immersive experience via multi-temporal geodata hub. Virtual Archaeology Review, 2018, 9, 34.	0.8	14
12	Accurate 3D surface measurement of mountain slopes through a fully automated image-based technique. Earth Science Informatics, 2014, 7, 109-122.	1.6	13
13	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
14	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
15	Procedures for Condition Mapping Using 360° Images. ISPRS International Journal of Geo-Information, 2020, 9, 34.	1.4	12
16	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
17	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
18	Stitching and Processing Gnomonic Projections for Close-Range Photogrammetry. Photogrammetric Engineering and Remote Sensing, 2013, 79, 573-582.	0.3	9

#	ARTICLE	IF	CITATIONS
19	Close-Range Photogrammetric Techniques for Deformation Measurement: Applications to Landslides. , 2015, , 13-41.		8
20	A brokered Virtual Hub approach for the generation of web applications based on historical maps. Applied Geomatics, 2018, 10, 453-472.	1.2	7
21	Existing infrastructure cost effective informative modelling with multisource sensed data: TLS, MMS and photogrammetry. Applied Geomatics, 2022, 14, 21-40.	1.2	7
22	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		
23	HBIM Feeding Open Access Vault Inventory Through GeoDB HUB. Lecture Notes in Computer Science, 2018, , 27-38.	1.0	6
24	Simultaneous registration of gnomonic projections and central perspectives. Photogrammetric Record, 2014, 29, 278-296.	0.4	4
25	PARAMETRIC GENERATION IN HBIM WORKFLOWS FOR SLAM-BASED DATA: DISCUSSING EXPECTATIONS ON SUITABILITY AND ACCURACY. , 0, , .		4
26	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
27	Handheld 3D Mobile Scanner (SLAM): Data Simulation and Acquisition for BIM Modelling. Communications in Computer and Information Science, 2020, , 256-266.	0.4	3
28	Historical Map Registration via Independent Model Adjustment with Affine Transformations. Lecture Notes in Computer Science, 2014, , 44-56.	1.0	3
29	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 ETQq1 1 0.78431.0 rgBT /Overlock 10		
30	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
31	Use of Sar Satellite Data in Bridge Monitoring with Application to Urban Areas. Lecture Notes in Civil Engineering, 2021, , 935-955.	0.3	2
32	READING INTEGRITY IN THE LANDSCAPE: METHODSâ€™ COMPARISON ON TICINO AREA. , 0, , .		1
33	Monitoring of a Metal Bridge Using DInSAR Data. Lecture Notes in Civil Engineering, 2023, , 397-406.	0.3	1
34	Combined Photogrammetric and Laser Scanning Survey to Support Fluvial Sediment Transport Analyses. Lecture Notes in Computer Science, 2020, , 620-633.	1.0	0