

Raffaella Brumana

List of Publications by Year in descending order

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56
papers

1,292
citations

623574

14
h-index

552653

26
g-index

57
all docs

57
docs citations

57
times ranked

798
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	Survey turned into HBIM: the restoration and the work involved concerning the Basilica di Collemaggio after the earthquake (L'Aquila). ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5, 267-273.	0.0	110
3	Generative HBIM modelling to embody complexity (LOD, LOG, LOA, LOI): surveying, preservation, site intervention – the Basilica di Collemaggio (L'Aquila). Applied Geomatics, 2018, 10, 545-567.	1.2	82
4	Creation of Parametric BIM Objects from Point Clouds Using Nurbs. Photogrammetric Record, 2015, 30, 339-362.	0.4	80
5	HBIM FOR CONSERVATION AND MANAGEMENT OF BUILT HERITAGE: TOWARDS A LIBRARY OF VAULTS AND WOODEN BEAN FLOORS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5/W1, 215-221.	0.0	68
6	Extended reality and informative models for the architectural heritage: from scan-to-BIM process to virtual and augmented reality. Virtual Archaeology Review, 2019, 10, 14.	0.8	61
7	BIM FROM LASER CLOUDS AND FINITE ELEMENT ANALYSIS: COMBINING STRUCTURAL ANALYSIS AND GEOMETRIC COMPLEXITY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W4, 345-350.	0.2	61
8	From survey to HBIM for documentation, dissemination and management of built heritage: The case study of St. Maria in Scaria d'Intelvi. , 2013, , .		46
9	Review of Geometric and Radiometric Analyses of Paintings. Photogrammetric Record, 2011, 26, 439-461.	0.4	43
10	Strategy for Integrated Surveying Techniques Finalized to Interpretive Models in a Byzantine Church, Mesopotam, Albania. International Journal of Architectural Heritage, 2014, 8, 886-924.	1.7	37
11	Automatic facade modelling using point cloud data for energy-efficient retrofitting. Applied Geomatics, 2014, 6, 95-113.	1.2	37
12	HBIM CHALLENGE AMONG THE PARADIGM OF COMPLEXITY, TOOLS AND PRESERVATION: THE BASILICA DI COLLEMAGGIO 8 YEARS AFTER THE EARTHQUAKE (L'AQUILA). International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W5, 97-104.	0.2	35
13	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
14	True-orthophoto generation from UAV images: Implementation of a combined photogrammetric and computer vision approach. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5, 57-63.	0.0	31
15	COMBINED GEOMETRIC AND THERMAL ANALYSIS FROM UAV PLATFORMS FOR ARCHAEOLOGICAL HERITAGE DOCUMENTATION. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5/W1, 49-54.	0.0	30
16	Towards a methodology for 3D content models: The reconstruction of ancient vaults for maintenance and structural behaviour in the logic of BIM management. , 2012, , .		27
17	BIM AUTOMATION: ADVANCED MODELING GENERATIVE PROCESS FOR COMPLEX STRUCTURES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, IV-2/W2, 9-16.	0.0	23
18	Beyond Crude 3D Models: From Point Clouds to Historical Building Information Modeling via NURBS. Lecture Notes in Computer Science, 2014, , 166-175.	1.0	21

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19	HBIM LEVEL OF DETAIL-GEOMETRY-ACCURACY AND SURVEY ANALYSIS FOR ARCHITECTURAL PRESERVATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 293-299.	0.2	19
20	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
21	HBIM Library Objects for Conservation and Management of Built Heritage. International Journal of Heritage in the Digital Era, 2014, 3, 321-334.	0.5	18
22	Geomapping methodology for the GeoCluster Mapping Tool to assess deployment potential of technologies for energy efficiency in buildings. Sustainable Cities and Society, 2015, 17, 22-34.	5.1	18
23	HBIM for Documentation, Dissemination and Management of Built Heritage. The Case Study of St. Maria in Scaria d'Intelvi. International Journal of Heritage in the Digital Era, 2013, 2, 433-451.	0.5	17
24	Survey and Scan to BIM Model for the Knowledge of Built Heritage and the Management of Conservation Activities. Research for Development, 2020, , 391-400.	0.2	17
25	An Ontology-Based Representation of Vaulted System for HBIM. Applied Sciences (Switzerland), 2020, 10, 1377.	1.3	16
26	Models and scales for quality control: toward the definition of specifications (GOA-LOG) for the generation and re-use of HBIM object libraries in a Common Data Environment. Applied Geomatics, 0, , 1.	1.2	16
27	VIRTUAL MUSEUMS AS DIGITAL STORYTELLERS FOR DISSEMINATION OF BUILT ENVIRONMENT: POSSIBLE NARRATIVES AND OUTLOOKS FOR APPEALING AND RICH ENCOUNTERS WITH THE PAST. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W5, 113-119.	0.2	16
28	Virtual museums and built environment: narratives and immersive experience via multi-temporal geodata hub. Virtual Archaeology Review, 2018, 9, 34.	0.8	14
29	OBJECT-ORIENTED APPROACH FOR 3D ARCHAEOLOGICAL DOCUMENTATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W5, 707-712.	0.2	12
30	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
31	A N-D VIRTUAL NOTEBOOK ABOUT THE BASILICA OF S. AMBROGIO IN MILAN: INFORMATION MODELING FOR THE COMMUNICATION OF HISTORICAL PHASES SUBTRACTION PROCESS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W5, 653-660.	0.2	11
32	Raising awareness of the cultural, architectural, and perceptive values of historic gardens and related landscapes: panoramic cones and multi-temporal data. Applied Geomatics, 2020, , 1.	1.2	7
33	Existing infrastructure cost effective informative modelling with multisource sensed data: TLS, MMS and photogrammetry. Applied Geomatics, 2022, 14, 21-40.	1.2	7
34	Historic BIM in the Cloud. Lecture Notes in Computer Science, 2016, , 104-115.	1.0	7
35	THE ASSESSMENT OF THE BAROQUE VAULT CONSTRUCTION TECHNIQUE BY SCAN-TO-BIM PROCESS: ST. BERNARD'S CHAPEL IN THE PLASY MONASTERY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W15, 1127-1134.	0.2	7
36	Semi-Automatic Objects Recognition in Urban Areas Based on Fuzzy Logic. Journal of Geographic Information System, 2010, 02, 55-62.	0.3	6

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37	HBIM Feeding Open Access Vault Inventory Through GeoDB HUB. Lecture Notes in Computer Science, 2018, , 27-38.	1.0	6
38	TOWARDS A SEMANTIC BASED HUB PLATFORM OF VAULTED SYSTEMS: HBIM MEETS A GEODB. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 301-308.	0.2	6
39	Open Access to Historical Atlas: Sources of Information and Services for Landscape Analysis in an SDI Framework. Lecture Notes in Computer Science, 2012, , 397-413.	1.0	5
40	Point clouds turned into finite elements: the umbrella vault of Castel Masegra. IOP Conference Series: Materials Science and Engineering, 2018, 364, 012087.	0.3	5
41	UAV-Based Orthophoto Generation in Urban Area: The Basilica of Santa Maria di Collemaggio in L'Aquila. Lecture Notes in Computer Science, 2014, , 1-13.	1.0	5
42	THE HBIM ANALYSIS OF THE GEOMETRY TO UNDERSTAND THE CONSTRUCTIVE TECHNIQUE: THE USE OF THE TROMPE VOLUME IN A BRICK VAULT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 107-114.	0.2	4
43	Digital cartographic heritage in service to the society: Landscape analysis for informed decision making. , 2012, , .		3
44	Energic-OD virtual hubs: A brokered architecture for facilitating Open Data sharing and use. , 2015, , .		3
45	Handheld 3D Mobile Scanner (SLAM): Data Simulation and Acquisition for BIM Modelling. Communications in Computer and Information Science, 2020, , 256-266.	0.4	3
46	Historical Map Registration via Independent Model Adjustment with Affine Transformations. Lecture Notes in Computer Science, 2014, , 44-56.	1.0	3
47	THE GEO-REFERENCED XIX CENTURY CARTOGRAPHY: AN ANALYSIS TOOL AND A PROJECT REFERENCE FOR THE PRESERVATION AND MANAGEMENT OF BUILT AND LANDSCAPE HERITAGE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 395-402.	0.2	3
48	Towards a virtual hub approach for landscape assessment and multimedia ecomuseum using multitemporal-maps. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W7, 49-56.	0.2	3
49	Geo-portal as a planning instrument: supporting decision making and fostering market potential of Energy efficiency in buildings. Open Geosciences, 2014, 6, .	0.6	2
50	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 20 Tf 50 21		2
51	HERITAGE & DEVELOPMENT STRATEGY ON HISTORIC URBAN LANDSCAPE (HUL): THE ADDED VALUE OF MULTI-TEMPORAL HUB APPLICATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 1151-1158.	0.2	2
52	UAV Panoramic Images for Waterfront Landscape Analysis and TopographicDB Texturing. Lecture Notes in Computer Science, 2013, , 328-343.	1.0	1
53	Finding Buried Remains Using Thermal Images. International Journal of Heritage in the Digital Era, 2015, 4, 295-306.	0.5	1
54	DIGITAL DOCUMENTATION AND MONITORING HUB IN CLIMATE-SENSITIVE TERRITORIES: THE ALBENGA CASE STUDY (SAN CLEMENTE SITE). International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 881-886.	0.2	1

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55	A VIRTUAL HUB BROKERING APPROACH FOR INTEGRATION OF HISTORICAL AND MODERN MAPS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B4, 163-170.	0.2	1
56	Special Issue "GEORES: HBIM as part of a co-working GeoSpatial ecosystem". Applied Geomatics, 2022, 14, 1.	1.2	1