

Roberto Pierdicca

List of Publications by Year in descending order

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83
papers

1,812
citations

430754

18
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37
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87
all docs

87
docs citations

87
times ranked

1385
citing authors

#	ARTICLE	IF	CITATIONS
1	Multidisciplinary Approach for the Analysis of Structural Heritage at Risk: The Case Study of Stylite Tower at Umm ar-Rasas (Jordan). <i>International Journal of Architectural Heritage</i> , 2023, 17, 745-769.	1.7	3
2	Combining Participatory Mapping and Geospatial Analysis Techniques to Assess Wildfire Risk in Rural North Vietnam. <i>Environmental Management</i> , 2022, 69, 466.	1.2	2
3	A Method for Determining the Shape Similarity of Complex Three-Dimensional Structures to Aid Decay Restoration and Digitization Error Correction. <i>Information (Switzerland)</i> , 2022, 13, 145.	1.7	0
4	Preservation of Villages in Central Italy: Geomatic Techniquesâ€™ Integration and GIS Strategies for the Post-Earthquake Assessment. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 291.	1.4	2
5	GeoAI: a review of artificial intelligence approaches for the interpretation of complex geomatics data. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2022, 11, 195-218.	0.6	5
6	Uncovering the Potential of Digital Technologies to Promote Railways Landscape: Rail to Land Project. <i>Lecture Notes in Computer Science</i> , 2021, , 315-325.	1.0	1
7	Mobile 3D scan LiDAR: a literature review. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 2387-2429.	2.0	44
8	Vehicle trajectory prediction and generation using LSTM models and GANs. <i>PLoS ONE</i> , 2021, 16, e0253868.	1.1	15
9	Mo.Se.: Mosaic image segmentation based on deep cascading learning. <i>Virtual Archaeology Review</i> , 2021, 12, 25.	0.8	12
10	3D Surveying of Underground Built Heritage: Opportunities and Challenges of Mobile Technologies. <i>Sustainability</i> , 2021, 13, 13289.	1.6	15
11	Digital interaction with 3D archaeological artefacts: evaluating userâ€™s behaviours at different representation scales. <i>Digital Applications in Archaeology and Cultural Heritage</i> , 2020, 18, e00148.	0.9	14
12	Automatic Faults Detection of Photovoltaic Farms: solAir, a Deep Learning-Based System for Thermal Images. <i>Energies</i> , 2020, 13, 6496.	1.6	47
13	Comparing Machine and Deep Learning Methods for Large 3D Heritage Semantic Segmentation. <i>ISPRS International Journal of Geo-Information</i> , 2020, 9, 535.	1.4	58
14	Evaluation of Long-Range Mobile Mapping System (MMS) and Close-Range Photogrammetry for Deformation Monitoring. A Case Study of Cortes de Pall�s in Valencia (Spain). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6831.	1.3	7
15	A Relational Conceptual Model in GIS for the Management of Photovoltaic Systems. <i>Energies</i> , 2020, 13, 2860.	1.6	5
16	A Visual Attentive Model for Discovering Patterns in Eye-Tracking Dataâ€™A Proposal in Cultural Heritage. <i>Sensors</i> , 2020, 20, 2101.	2.1	5
17	Point Cloud Semantic Segmentation Using a Deep Learning Framework for Cultural Heritage. <i>Remote Sensing</i> , 2020, 12, 1005.	1.8	124
18	A Content Creation Tool for AR/VR Applications in Education: The ScoolAR Framework. <i>Lecture Notes in Computer Science</i> , 2020, , 205-219.	1.0	4

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19	Augmented Reality Smart Glasses in the Workplace: Safety and Security in the Fourth Industrial Revolution Era. <i>Lecture Notes in Computer Science</i> , 2020, , 231-247.	1.0	12
20	Integration and Assessment Between 3D Data from Different Geomatics Techniques. Case Study: The Ancient City Walls of San Ginesio (Italy). <i>Communications in Computer and Information Science</i> , 2020, , 186-197.	0.4	2
21	Learning from Synthetic Point Cloud Data for Historical Buildings Semantic Segmentation. <i>Journal on Computing and Cultural Heritage</i> , 2020, 13, 1-16.	1.2	27
22	Evaluating Augmented and Virtual Reality in Education Through a User-Centered Comparative Study. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020, , 229-261.	0.4	3
23	Algorithms for Enhancing Satellite Imagery to Discover Archaeological Finds Covered by Shadow. <i>Lecture Notes in Computer Science</i> , 2020, , 664-673.	1.0	0
24	AI4AR: An AI-Based Mobile Application for the Automatic Generation of AR Contents. <i>Lecture Notes in Computer Science</i> , 2020, , 273-288.	1.0	1
25	Design, Large-Scale Usage Testing, and Important Metrics for Augmented Reality Gaming Applications. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2019, 15, 1-18.	3.0	12
26	Accurate Modeling of the Microwave Treatment of Works of Art. <i>Sustainability</i> , 2019, 11, 1606.	1.6	5
27	IoT and Engagement in the Ubiquitous Museum. <i>Sensors</i> , 2019, 19, 1387.	2.1	16
28	eTourism: ICT and its role for tourism management. <i>Journal of Hospitality and Tourism Technology</i> , 2019, 10, 90-106.	2.5	51
29	Dissemination in archaeology: a GIS-based StoryMap for Chan Chan. <i>Journal of Cultural Heritage Management and Sustainable Development</i> , 2019, 9, 500-519.	0.5	8
30	Measuring and Assessing Augmented Reality Potential for Educational Purposes: SmartMarca Project. <i>Lecture Notes in Computer Science</i> , 2019, , 319-334.	1.0	6
31	Semantic 3D Object Maps for Everyday Robotic Retail Inspection. <i>Lecture Notes in Computer Science</i> , 2019, , 263-274.	1.0	6
32	An IOT Edge-Fog-Cloud Architecture for Vision Based Pallet Integrity. <i>Lecture Notes in Computer Science</i> , 2019, , 296-306.	1.0	2
33	Virtual museum enriched by GIS data to share science and culture. Church of Saint Stephen in Umm Ar-Rasas (Jordan). <i>Virtual Archaeology Review</i> , 2019, 10, 31.	0.8	4
34	Automatic Generation of Point Cloud Synthetic Dataset for Historical Building Representation. <i>Lecture Notes in Computer Science</i> , 2019, , 203-219.	1.0	5
35	A geographical information system to support restoration activities: a methodological approach experienced upon the case study of Ascoli Satriano Fortress. <i>Applied Geomatics</i> , 2018, 10, 427-439.	1.2	4
36	A Survey of Augmented, Virtual, and Mixed Reality for Cultural Heritage. <i>Journal on Computing and Cultural Heritage</i> , 2018, 11, 1-36.	1.2	468

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37	Mapping Chimu's settlements for conservation purposes using UAV and close range photogrammetry. The virtual reconstruction of Palacio Tschudi, Chan Chan, Peru. <i>Digital Applications in Archaeology and Cultural Heritage</i> , 2018, 8, 27-34.	0.9	14
38	User-Centered Predictive Model for Improving Cultural Heritage Augmented Reality Applications: An HMM-Based Approach for Eye-Tracking Data. <i>Journal of Imaging</i> , 2018, 4, 101.	1.7	9
39	Automatic Mosaic Digitalization: a Deep Learning approach to tessera segmentation. , 2018, , .		5
40	Evaluating a Slam-Based Mobile Mapping System: a Methodological Comparison for 3D Heritage Scene Real-Time Reconstruction. , 2018, , .		5
41	Cyber Physical Systems for Industry 4.0: Towards Real Time Virtual Reality in Smart Manufacturing. <i>Lecture Notes in Computer Science</i> , 2018, , 422-434.	1.0	19
42	A Smartphone-Based System for Outdoor Data Gathering Using a Wireless Beacon Network and GPS Data: From Cyber Spaces to Senseable Spaces. <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 190.	1.4	13
43	Web Tool as a Virtual Museum of Ancient Archaeological Ruins in Peru. <i>Lecture Notes in Computer Science</i> , 2017, , 282-296.	1.0	3
44	The Use of Augmented Reality Glasses for the Application in Industry 4.0. <i>Lecture Notes in Computer Science</i> , 2017, , 389-401.	1.0	41
45	Integrating elevation data and multispectral high-resolution images for an improved hybrid Land Use/Land Cover mapping. <i>European Journal of Remote Sensing</i> , 2017, 50, 1-17.	1.7	23
46	Customer Experience: A Design Approach and Supporting Platform. <i>IFIP Advances in Information and Communication Technology</i> , 2017, , 287-298.	0.5	3
47	Analysis and Processing of Nadir and Stereo VHR PleiadÃ©s Images for 3D Mapping and Planning the Land of Nineveh, Iraqi Kurdistan. <i>Geosciences (Switzerland)</i> , 2017, 7, 80.	1.0	8
48	Remote Touch Interaction with High Quality Models Using an Autostereoscopic 3D Display. <i>Lecture Notes in Computer Science</i> , 2017, , 478-489.	1.0	2
49	Knowledge-based data enrichment for HBIM: Exploring high-quality models using the semantic-web. <i>Journal of Cultural Heritage</i> , 2017, 28, 129-139.	1.5	98
50	Real/Not Real. <i>Advances in Library and Information Science</i> , 2017, , 201-227.	0.2	21
51	Smart maintenance of riverbanks using a standard data layer and Augmented Reality. <i>Computers and Geosciences</i> , 2016, 95, 67-74.	2.0	21
52	Cyberarchaeology: Improved Way Findings for Archaeological Parks Through Mobile Augmented Reality. <i>Lecture Notes in Computer Science</i> , 2016, , 172-185.	1.0	9
53	Analysing human movements at mass events: A novel mobile-based management system based on active beacons and AVM. , 2016, , .		4
54	Virtual reconstruction of archaeological heritage using a combination of photogrammetric techniques: Huaca Arco Iris, Chan Chan, Peru. <i>Digital Applications in Archaeology and Cultural Heritage</i> , 2016, 3, 80-90.	0.9	33

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55	Robust and affordable retail customer profiling by vision and radio beacon sensor fusion. Pattern Recognition Letters, 2016, 81, 30-40.	2.6	66
56	Improving the Development of AR Application for Artwork Collections with Standard Data Layer. Lecture Notes in Computer Science, 2016, , 435-443.	1.0	1
57	Automatic Analysis of Eye-Tracking Data for Augmented Reality Applications: A Prospective Outlook. Lecture Notes in Computer Science, 2016, , 217-230.	1.0	30
58	3D visualization tools to explore ancient architectures in South America. Virtual Archaeology Review, 2016, 7, 44.	0.8	14
59	Automatic Classification for Anti Mixup Events in Advanced Manufacturing System. , 2015, , .		9
60	Low cost embedded system for increasing retail environment intelligence. , 2015, , .		22
61	Making Visible the Invisible. Augmented Reality Visualization for 3D Reconstructions of Archaeological Sites. Lecture Notes in Computer Science, 2015, , 25-37.	1.0	26
62	Advanced Interaction with Paintings by Augmented Reality and High Resolution Visualization: A Real Case Exhibition. Lecture Notes in Computer Science, 2015, , 38-50.	1.0	20
63	Augmented Reality Experience: From High-Resolution Acquisition to Real Time Augmented Contents. Advances in Multimedia, 2014, 2014, 1-9.	0.2	34
64	Notre Dame Du Haut by Spherical Photogrammetry Integrated by Point Clouds Generated by Multi-View Software. International Journal of Heritage in the Digital Era, 2012, 1, 461-479.	0.5	12
65	IMPROVING SPHERICAL PHOTOGRAMMETRY USING 360°OMNI-CAMERAS: USE CASES AND NEW APPLICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 331-337.	0.2	15
66	DEEP CONVOLUTIONAL NEURAL NETWORK FOR AUTOMATIC DETECTION OF DAMAGED PHOTOVOLTAIC CELLS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2, 893-900.	0.2	102
67	DEEP LEARNING FOR SEMANTIC SEGMENTATION OF 3D POINT CLOUD. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W15, 735-742.	0.2	30
68	DEEP CONVOLUTIONAL NEURAL NETWORKS FOR SENTIMENT ANALYSIS OF CULTURAL HERITAGE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W15, 871-878.	0.2	6
69	DISCOVERING AND SHARING OF SECRET ARCHITECTURES: THE HIDDEN TOMB OF THE PHARAOH OF EL-KHASNEH, JORDAN. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W3, 459-465.	0.2	2
70	THE EUROPEAN RESEARCH NIGHT: NEW WAYS FOR COMMUNICATING SCIENCE WITH ICT AND VIDEOMAPPING. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W9, 647-654.	0.2	3
71	CONSERVATION-ORIENTED HBIM. THE BIMEXPLORER WEB TOOL. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5/W1, 275-281.	0.2	17
72	A BENCHMARK FOR LARGE-SCALE HERITAGE POINT CLOUD SEMANTIC SEGMENTATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2020, 1419-1426.	0.2	33

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73	COST EFFECTIVE SPHERICAL PHOTOGRAMMETRY: A NOVEL FRAMEWORK FOR THE SMART MANAGEMENT OF COMPLEX URBAN ENVIRONMENTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B4-2020, 441-448.	0.2	4
74	GRAPH CNN WITH RADIUS DISTANCE FOR SEMANTIC SEGMENTATION OF HISTORICAL BUILDINGS TLS POINT CLOUDS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIV-4/W1-2020, 95-102.	0.2	4
75	UAV SURVEYING FOR A COMPLETE MAPPING AND DOCUMENTATION OF ARCHAEOLOGICAL FINDINGS. THE EARLY NEOLITHIC SITE OF PORTONOVO. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B1, 1149-1155.	0.2	7
76	VIRTUAL RECONSTRUCTION OF LOST ARCHITECTURES: FROM THE TLS SURVEY TO AR VISUALIZATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 383-390.	0.2	9
77	DOCUMENTATION AND DETECTION OF COLOUR CHANGES OF BAS RELIEVES USING CLOSE RANGE PHOTOGRAMMETRY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-5/W1, 203-210.	0.2	1
78	HOW TO EXTRACT USEFUL INFORMATION ABOUT THE DECAY OF BASS RELIEVES IN ARCHAEOLOGICAL AREA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 785-792.	0.2	1
79	A GEODATABASE FOR MULTISOURCE DATA MANAGEMENT APPLIED TO CULTURAL HERITAGE: THE CASE STUDY OF VILLA BUONACCORSI'S HISTORICAL GARDEN. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 771-776.	0.2	14
80	ICTS AND MOBILE APPLICATIONS FOR PROMOTING TOURISM DESTINATIONS: THE CASE OF SMART MARCA APP., 0, , .		0
81	SIGNIFICANCE. STOP ILLICIT HERITAGE TRAFFICKING WITH ARTIFICIAL INTELLIGENCE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2022, 729-736.	0.2	0
82	AUTOMATIC TRAINING DATA GENERATION IN DEEP LEARNING-AIDED SEMANTIC SEGMENTATION OF HERITAGE BUILDINGS. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, V-2-2022, 317-324.	0.0	0
83	INTEGRATION OF GEOMATIC TECHNIQUES FOR THE 3D REPRESENTATION AND MONITORING OF A VETERAN CHESTNUT TREE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2022, 833-839.	0.2	1