

# Roberto Pierdicca

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

1,812  
citations

430754

18  
h-index

330025

37  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1385  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Point Cloud Semantic Segmentation Using a Deep Learning Framework for Cultural Heritage. <i>Remote Sensing</i> , 2020, 12, 1005.	1.8	124
3	DEEP CONVOLUTIONAL NEURAL NETWORK FOR AUTOMATIC DETECTION OF DAMAGED PHOTOVOLTAIC CELLS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2, 893-900.	0.2	102
4	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
5	Robust and affordable retail customer profiling by vision and radio beacon sensor fusion. <i>Pattern Recognition Letters</i> , 2016, 81, 30-40.	2.6	66
6	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
7	eTourism: ICT and its role for tourism management. <i>Journal of Hospitality and Tourism Technology</i> , 2019, 10, 90-106.	2.5	51
8	Automatic Faults Detection of Photovoltaic Farms: solAlr, a Deep Learning-Based System for Thermal Images. <i>Energies</i> , 2020, 13, 6496.	1.6	47
9	Mobile 3D scan LiDAR: a literature review. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 2387-2429.	2.0	44
10	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
11	Augmented Reality Experience: From High-Resolution Acquisition to Real Time Augmented Contents. <i>Advances in Multimedia</i> , 2014, 2014, 1-9.	0.2	34
12	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
13	A BENCHMARK FOR LARGE-SCALE HERITAGE POINT CLOUD SEMANTIC SEGMENTATION. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B2-2020, 1419-1426.	0.2	33
14	Automatic Analysis of Eye-Tracking Data for Augmented Reality Applications: A Prospective Outlook. <i>Lecture Notes in Computer Science</i> , 2016, , 217-230.	1.0	30
15	DEEP LEARNING FOR SEMANTIC SEGMENTATION OF 3D POINT CLOUD. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W15, 735-742.	0.2	30
16	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
17	Making Visible the Invisible. Augmented Reality Visualization for 3D Reconstructions of Archaeological Sites. <i>Lecture Notes in Computer Science</i> , 2015, , 25-37.	1.0	26
18	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

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19	Low cost embedded system for increasing retail environment intelligence. , 2015, , .		22
20	Smart maintenance of riverbanks using a standard data layer and Augmented Reality. Computers and Geosciences, 2016, 95, 67-74.	2.0	21
21	Real/Not Real. Advances in Library and Information Science, 2017, , 201-227.	0.2	21
22	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
23	Cyber Physical Systems for Industry 4.0: Towards Real Time Virtual Reality in Smart Manufacturing. Lecture Notes in Computer Science, 2018, , 422-434.	1.0	19
24	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
25	IoT and Engagement in the Ubiquitous Museum. Sensors, 2019, 19, 1387.	2.1	16
26	Vehicle trajectory prediction and generation using LSTM models and GANs. PLoS ONE, 2021, 16, e0253868.	1.1	15
27	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
28	3D Surveying of Underground Built Heritage: Opportunities and Challenges of Mobile Technologies. Sustainability, 2021, 13, 13289.	1.6	15
29	Mapping Chimu's settlements for conservation purposes using UAV and close range photogrammetry. The virtual reconstruction of Palacio Tschudi, Chan Chan, Peru. Digital Applications in Archaeology and Cultural Heritage, 2018, 8, 27-34.	0.9	14
30	Digital interaction with 3D archaeological artefacts: evaluating user's behaviours at different representation scales. Digital Applications in Archaeology and Cultural Heritage, 2020, 18, e00148.	0.9	14
31	3D visualization tools to explore ancient architectures in South America. Virtual Archaeology Review, 2016, 7, 44.	0.8	14
32	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
33	A Smartphone-Based System for Outdoor Data Gathering Using a Wireless Beacon Network and GPS Data: From Cyber Spaces to Senseable Spaces. ISPRS International Journal of Geo-Information, 2018, 7, 190.	1.4	13
34	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
35	Design, Large-Scale Usage Testing, and Important Metrics for Augmented Reality Gaming Applications. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-18.	3.0	12
36	Mo.Se.: Mosaic image segmentation based on deep cascading learning. Virtual Archaeology Review, 2021, 12, 25.	0.8	12

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37	Augmented Reality Smart Glasses in the Workplace: Safety and Security in the Fourth Industrial Revolution Era. Lecture Notes in Computer Science, 2020, , 231-247.	1.0	12
38	Automatic Classification for Anti Mixup Events in Advanced Manufacturing System. , 2015, , .		9
39	Cyberarchaeology: Improved Way Findings for Archaeological Parks Through Mobile Augmented Reality. Lecture Notes in Computer Science, 2016, , 172-185.	1.0	9
40	User-Centered Predictive Model for Improving Cultural Heritage Augmented Reality Applications: An HMM-Based Approach for Eye-Tracking Data. Journal of Imaging, 2018, 4, 101.	1.7	9
41	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
42	Analysis and Processing of Nadir and Stereo VHR Pleiad's Images for 3D Mapping and Planning the Land of Nineveh, Iraqi Kurdistan. Geosciences (Switzerland), 2017, 7, 80.	1.0	8
43	Dissemination in archaeology: a GIS-based StoryMap for Chan Chan. Journal of Cultural Heritage Management and Sustainable Development, 2019, 9, 500-519.	0.5	8
44	Evaluation of Long-Range Mobile Mapping System (MMS) and Close-Range Photogrammetry for Deformation Monitoring. A Case Study of Cortes de Pallà in Valencia (Spain). Applied Sciences (Switzerland), 2020, 10, 6831.	1.3	7
45	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
46	Measuring and Assessing Augmented Reality Potential for Educational Purposes: SmartMarca Project. Lecture Notes in Computer Science, 2019, , 319-334.	1.0	6
47	Semantic 3D Object Maps for Everyday Robotic Retail Inspection. Lecture Notes in Computer Science, 2019, , 263-274.	1.0	6
48	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
49	Automatic Mosaic Digitalization: a Deep Learning approach to tessera segmentation. , 2018, , .		5
50	Evaluating a Slam-Based Mobile Mapping System: a Methodological Comparison for 3D Heritage Scene Real-Time Reconstruction. , 2018, , .		5
51	Accurate Modeling of the Microwave Treatment of Works of Art. Sustainability, 2019, 11, 1606.	1.6	5
52	A Relational Conceptual Model in GIS for the Management of Photovoltaic Systems. Energies, 2020, 13, 2860.	1.6	5
53	A Visual Attentive Model for Discovering Patterns in Eye-Tracking Data – A Proposal in Cultural Heritage. Sensors, 2020, 20, 2101.	2.1	5
54	Automatic Generation of Point Cloud Synthetic Dataset for Historical Building Representation. Lecture Notes in Computer Science, 2019, , 203-219.	1.0	5

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55	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
56	Analysing human movements at mass events: A novel mobile-based management system based on active beacons and AVM. , 2016, , .		4
57	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
58	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
59	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
60	COST EFFECTIVE SPHERICAL PHOTOGRAMMETRY: A NOVEL FRAMEWORK FOR THE SMART MANAGEMENT OF COMPLEX URBAN ENVIRONMENTS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIII-B4-2020, 441-448.	0.2	4
61	GRAPH CNN WITH RADIUS DISTANCE FOR SEMANTIC SEGMENTATION OF HISTORICAL BUILDINGS TLS POINT CLOUDS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLIV-4/W1-2020, 95-102.	0.2	4
62	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
63	Customer Experience: A Design Approach and Supporting Platform. <i>IFIP Advances in Information and Communication Technology</i> , 2017, , 287-298.	0.5	3
64	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
65	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
66	THE EUROPEAN RESEARCH NIGHT: NEW WAYS FOR COMMUNICATING SCIENCE WITH ICT AND VIDEOMAPPING. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W9, 647-654.	0.2	3
67	An IOT Edge-Fog-Cloud Architecture for Vision Based Pallet Integrity. <i>Lecture Notes in Computer Science</i> , 2019, , 296-306.	1.0	2
68	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
69	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
70	DISCOVERING AND SHARING OF SECRET ARCHITECTURES: THE HIDDEN TOMB OF THE PHARAOH OF EL-KHASNEH, JORDAN. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W3, 459-465.	0.2	2
71	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
72	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

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73	Uncovering the Potential of Digital Technologies to Promote Railways Landscape: Rail to Land Project. Lecture Notes in Computer Science, 2021, , 315-325.	1.0	1
74	Improving the Development of AR Application for Artwork Collections with Standard Data Layer. Lecture Notes in Computer Science, 2016, , 435-443.	1.0	1
75	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
76	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
77	AI4AR: An AI-Based Mobile Application for the Automatic Generation of AR Contents. Lecture Notes in Computer Science, 2020, , 273-288.	1.0	1
78	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
79	Algorithms for Enhancing Satellite Imagery to Discover Archaeological Finds Covered by Shadow. Lecture Notes in Computer Science, 2020, , 664-673.	1.0	0
80	A Method for Determining the Shape Similarity of Complex Three-Dimensional Structures to Aid Decay Restoration and Digitization Error Correction. Information (Switzerland), 2022, 13, 145.	1.7	0
81	ICTS AND MOBILE APPLICATIONS FOR PROMOTING TOURISM DESTINATIONS: THE CASE OF SMART MARCA APP.. , 0, , .		0
82	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
83	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