Pablo RodrÃ-guez-GonzÃ¡lvez

List of Publications by Year
in descending order

100 papers	2,341 citations	201674 27 h-index	265206 42 g-index
101 all docs	101 docs citations	101 times ranked	2578 citing authors

#	Article	IF	Citations
1	Image-Based Modelling from Unmanned Aerial Vehicle (UAV) Photogrammetry: An Effective, Low-Cost Tool for Archaeological Applications. Archaeometry, 2015, 57, 128-145.	1.3	138
2	Vicarious Radiometric Calibration of a Multispectral Camera on Board an Unmanned Aerial System. Remote Sensing, 2014, 6, 1918-1937.	4.0	104
3	Geoinformatics for the conservation and promotion of cultural heritage in support of the UN Sustainable Development Goals. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 142, 389-406.	11.1	101
4	Comparing Terrestrial Laser Scanning (TLS) and Wearable Laser Scanning (WLS) for Individual Tree Modeling at Plot Level. Remote Sensing, 2018, 10, 540.	4.0	99
5	Metrological comparison between Kinect I and Kinect II sensors. Measurement: Journal of the International Measurement Confederation, 2015, 70, 21-26.	5.0	97
6	An automatic procedure for co-registration of terrestrial laser scanners and digital cameras. ISPRS Journal of Photogrammetry and Remote Sensing, 2009, 64, 308-316.	11.1	84
7	Vineyard yield estimation by automatic 3D bunch modelling in field conditions. Computers and Electronics in Agriculture, 2015, 110, 17-26.	7.7	74
8	Mobile LiDAR System: New Possibilities for the Documentation and Dissemination of Large Cultural Heritage Sites. Remote Sensing, 2017, 9, 189.	4.0	64
9	Image-based thermographic modeling for assessing energy efficiency of buildings faÃ§ades. Energy and Buildings, 2013, 65, 29-36.	6.7	58
10	Investigation of indoor and outdoor performance of two portable mobile mapping systems. Proceedings of SPIE, 2017, , .	0.8	55
11	Automated Urban Analysis Based on LiDAR-Derived Building Models. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1844-1851.	6.3	54
12	Monitoring biological crusts in civil engineering structures using intensity data from terrestrial laser scanners. Construction and Building Materials, 2012, 31, 119-128.	7.2	51
13	Novel approach to 3D thermography and energy efficiency evaluation. Energy and Buildings, 2012, 54, 436-443.	6.7	46
14	3D reconstruction methods and quality assessment for visual inspection of welds. Automation in Construction, 2017, 79, 49-58.	9.8	45
15	ACCURACY EVALUATION OF A MOBILE MAPPING SYSTEM WITH ADVANCED STATISTICAL METHODS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W4, 245-253.	0.2	45
16	GRAPHOS â€" openâ€source software for photogrammetric applications. Photogrammetric Record, 2018, 33, 11-29.	0.4	44
17	Yield prediction by machine learning from UAS-based multi-sensor data fusion in soybean. Plant Methods, 2020, 16, 78.	4.3	44
18	An Automatic Approach for Radial Lens Distortion Correction From a Single Image. IEEE Sensors Journal, 2011, 11, 956-965.	4.7	43

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19	Assessing the Accuracy of GEDI Data for Canopy Height and Aboveground Biomass Estimates in Mediterranean Forests. Remote Sensing, 2021, 13, 2279.	4.0	43
20	Image-based modeling of built environment from an unmanned aerial system. Automation in Construction, 2014, 48, 44-52.	9.8	42
21	Feasibility Study of a Structured Light System Applied to Welding Inspection Based on Articulated Coordinate Measure Machine Data. IEEE Sensors Journal, 2017, 17, 4217-4224.	4.7	42
22	Analysis and Evaluation Between the First and the Second Generation of RGB-D Sensors. IEEE Sensors Journal, 2015, 15, 6507-6516.	4.7	40
23	New tools for rock art modelling: automated sensor integration in Pindal Cave. Journal of Archaeological Science, 2011, 38, 120-128.	2.4	36
24	Multispectral Radiometric Analysis of Façades to Detect Pathologies from Active and Passive Remote Sensing. Remote Sensing, 2016, 8, 80.	4.0	36
25	Confronting Passive and Active Sensors with Non-Gaussian Statistics. Sensors, 2014, 14, 13759-13777.	3.8	35
26	Procedure for quality inspection of welds based on macro-photogrammetric three-dimensional reconstruction. Optics and Laser Technology, 2015, 73, 54-62.	4.6	33
27	Feature matching evaluation for multimodal correspondence. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 129, 179-188.	11.1	32
28	Vicarious radiometric calibration of a multispectral sensor from an aerial trike applied to precision agriculture. Computers and Electronics in Agriculture, 2014, 108, 28-38.	7.7	31
29	Macro-photogrammetry as a tool for the accurate measurement of three-dimensional misalignment in welding. Automation in Construction, 2016, 71, 189-197.	9.8	29
30	Automatic tree parameter extraction by a Mobile LiDAR System in an urban context. PLoS ONE, 2018, 13, e0196004.	2.5	29
31	Hyperspectral imaging and robust statistics in non-melanoma skin cancer analysis. Biomedical Optics Express, 2021, 12, 5107.	2.9	28
32	A Multi-Data Source and Multi-Sensor Approach for the 3D Reconstruction and Web Visualization of a Complex Archaeological Site: The Case Study of "Tolmo De Minateda". Remote Sensing, 2016, 8, 550.	4.0	27
33	3D SURVEYING & MODELING OF UNDERGROUND PASSAGES IN WWI FORTIFICATIONS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W4, 17-24.	0.2	27
34	Trimble GX200 and Riegl LMS-Z390i¨sensor self-calibration. Optics Express, 2011, 19, 2676.	3.4	26
35	Drones—An Open Access Journal. Drones, 2017, 1, 1.	4.9	25
36	Innovative Analysis of Runoff Temporal Behavior through Bayesian Networks. Water (Switzerland), 2016, 8, 484.	2.7	24

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37	Analysis of flood modeling through innovative geomatic methods. Journal of Hydrology, 2015, 524, 522-537.	5.4	23
38	Weld Bead Detection Based on 3D Geometric Features and Machine Learning Approaches. IEEE Access, 2019, 7, 14714-14727.	4.2	23
39	Geomatic methods at the service of water resources modelling. Journal of Hydrology, 2014, 509, 150-162.	5.4	22
40	Learning based on 3D photogrammetry models to evaluate the competences in visual testing of welds. , 2018, , .		21
41	Flood Hazard Assessment Supported by Reduced Cost Aerial Precision Photogrammetry. Remote Sensing, 2018, 10, 1566.	4.0	20
42	Survey and Classification of Large Woody Debris (LWD) in Streams Using Generated Low-Cost Geomatic Products. Remote Sensing, 2014, 6, 11770-11790.	4.0	19
43	Road safety evaluation through automatic extraction of road horizontal alignments from Mobile LiDAR System and inductive reasoning based on a decision tree. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 146, 334-346.	11.1	19
44	Valorisation of history and landscape for promoting the memory of WWI. Journal of Cultural Heritage, 2018, 29, 113-122.	3.3	18
45	From point cloud to CAD models: Laser and optics geotechnology for the design of electrical substations. Optics and Laser Technology, 2012, 44, 1384-1392.	4.6	16
46	Accuracy assessment of airborne laser scanner dataset by means of parametric and non‐parametric statistical methods. IET Science, Measurement and Technology, 2015, 9, 505-513.	1.6	16
47	Dense Canopy Height Model from a low-cost photogrammetric platform and LiDAR data. Trees - Structure and Function, 2016, 30, 1287-1301.	1.9	16
48	A HYBRID APPROACH TO CREATE AN ARCHAEOLOGICAL VISUALIZATION SYSTEM FOR A PALAEOLITHIC CAVE. Archaeometry, 2012, 54, 565-580.	1.3	15
49	Learning methodology based on weld virtual models in the mechanical engineering classroom. Computer Applications in Engineering Education, 2019, 27, 1113-1125.	3.4	15
50	Validation of Portable Mobile Mapping System for Inspection Tasks in Thermal and Fluid‐Mechanical Facilities. Remote Sensing, 2019, 11, 2205.	4.0	15
51	Diachronic Reconstruction and Visualization of Lost Cultural Heritage Sites. ISPRS International Journal of Geo-Information, 2019, 8, 61.	2.9	15
52	Suitability of Automatic Photogrammetric Reconstruction Configurations for Small Archaeological Remains. Sensors, 2020, 20, 2936.	3.8	12
53	A MULTI-DATA SOURCE AND MULTI-SENSOR APPROACH FOR THE 3D RECONSTRUCTION AND VISUALIZATION OF A COMPLEX ARCHAELOGICAL SITE: THE CASE STUDY OF TOLMO DE MINATEDA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W4, 37-44.	0.2	11
54	Comparative Analysis of Triangulation Libraries for Modeling Large Point Clouds from Land and Their Infrastructures. Infrastructures, 2017, 2, 1.	2.8	10

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55	3D Visualization Techniques in Health Science Learning. , 2018, , .		10
56	Detection of Geothermal Potential Zones Using Remote Sensing Techniques. Remote Sensing, 2019, 11, 2403.	4.0	10
57	Short CFD Simulation Activities in the Context of Fluid-Mechanical Learning in a Multidisciplinary Student Body. Applied Sciences (Switzerland), 2019, 9, 4809.	2.5	9
58	Parametric Optimization of the GMAW Welding Process in Thin Thickness of Austenitic Stainless Steel by Taguchi Method. Applied Sciences (Switzerland), 2021, 11, 8742.	2.5	9
59	MULTI-SENSOR RADIOMETRIC STUDY TO DETECT PATHOLOGIES IN HISTORICAL BUILDINGS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W4, 193-200.	0.2	9
60	3-D modelling of a fossil tufa outcrop. The example of La Peña del Manto (Soria, Spain). Sedimentary Geology, 2016, 333, 130-146.	2.1	8
61	A New Method for Positional Accuracy Control for Non-Normal Errors Applied to Airborne Laser Scanner Data. Applied Sciences (Switzerland), 2019, 9, 3887.	2.5	8
62	Metrological comparison of terrestrial laser scanning systems Riegl LMS Z390i and Trimble GX. Optical Engineering, 2011, 50, 116201.	1.0	7
63	A robust and hierarchical approach for the automatic co-registration of intensity and visible images. Optics and Laser Technology, 2012, 44, 1915-1923.	4.6	7
64	Accuracy assessment of vehicles surface area measurement by means of statistical methods. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1009-1018.	5.0	7
65	Geomatics and Geophysics Synergies to Evaluate Underground Wine Cellars. International Journal of Architectural Heritage, 2014, 8, 537-555.	3.1	7
66	Crack-Depth Prediction in Steel Based on Cooling Rate. Advances in Materials Science and Engineering, 2016, 2016, 1-9.	1.8	7
67	Simulation of a Real Call for Research Projects as Activity to Acquire Research Skills: Perception Analysis of Teacher Candidates. Sustainability, 2020, 12, 7431.	3.2	7
68	VIRTUAL MODELING FOR CITIES OF THE FUTURE. STATE-OF-THE ART AND VIRTUAL MODELING FOR CITIES OF THE FUTURE. STATE-OF-THE ART AN. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5/W4, 179-185.	0.2	7
69	Discrimination between Sedimentary Rocks from Close-Range Visible and Very-Near-Infrared Images. PLoS ONE, 2015, 10, e0132471.	2.5	6
70	Low-Cost Reflectance-Based Method for the Radiometric Calibration of Kinect 2. IEEE Sensors Journal, 2016, 16, 1975-1985.	4.7	6
71	Thermal Infrared Imaging to Evaluate Emotional Competences in Nursing Students: A First Approach through a Case Study. Sensors, 2020, 20, 2502.	3.8	6
72	A New Trend for Reverse Engineering: Robotized Aerial System for Spatial Information Management. Applied Mechanics and Materials, 2012, 152-154, 1785-1790.	0.2	5

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73	Metrological intercomparison of six terrestrial laser scanning systems. IET Science, Measurement and Technology, 2018, 12, 218-222.	1.6	5
74	Novel Pole Photogrammetric System for Low-Cost Documentation of Archaeological Sites: The Case Study of "Cueva Pintada". Remote Sensing, 2020, 12, 2644.	4.0	5
75	Design of a Didactical Activity for the Analysis of Uncertainties in Thermography through the Use of Robust Statistics as Teacher-Oriented Approach. Remote Sensing, 2021, 13, 402.	4.0	5
76	A New Approach to Energy Calculation of Road Accidents against Fixed Small Section Elements Based on Close-Range Photogrammetry. Remote Sensing, 2017, 9, 1219.	4.0	4
77	Novel Approach for Three-Dimensional Integral Documentation of Machine Rooms in Hospitals Using Portable Mobile Mapping System. IEEE Access, 2018, 6, 79200-79210.	4.2	4
78	Understanding Uncertainties in Thermographic Imaging. , 2019, , .		4
79	Deep Convolutional Neural Support Vector Machines for the Classification of Basal Cell Carcinoma Hyperspectral Signatures. Journal of Clinical Medicine, 2022, 11, 2315.	2.4	4
80	New Insights into the Concept of Orienteering Maps. Cartographic Journal, 2013, 50, 91-97.	1.5	3
81	Close-Range Photogrammetry and Infrared Imaging for Non-Invasive Honeybee Hive Population Assessment. ISPRS International Journal of Geo-Information, 2018, 7, 350.	2.9	3
82	Preliminary Assessment of Visible, Near-Infrared, and Short-Wavelength-Infrared Spectroscopy with a Portable Instrument for the Detection of Staphylococcus aureus Biofilms on Surfaces. Journal of Food Protection, 2019, 82, 1314-1319.	1.7	3
83	On the Use of Historical Flights for the Urban Growth Analysis of Cities Through Time: The Case Study of Avila (Spain). Sustainability, 2020, 12, 4673.	3.2	3
84	Turning Point Clouds into 3d Models: The Aqueduct of Segovia. Lecture Notes in Computer Science, 2009, , 520-532.	1.3	3
85	RGB-D Sensors Data Quality Assessment and Improvement for Advanced Applications. Advances in Computer Vision and Pattern Recognition, 2019, , 67-86.	1.3	3
86	Architectural orthophoto plan for pathological characterization of the Medieval Wall of Avila. , 2010, , .		2
87	Short simulation activity to improve the competences in the Fluid-mechanical Engineering classroom using Solidworks® Flow Simulation. , 2019, , .		2
88	Technique to evaluate the thermoregulatory capacity before thermal stress. Application case of thermographic images to blood flow monitoring. , 2019, , .		2
89	Application of Non-Destructive Techniques to the Recording and Modelling of Palaeolithic Rock Art. , 0, , .		2
90	Learning physical geodesy. Application case to geoid undulation computation. , 2020, , .		2

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91	Integration of TLS, close range photogrammetry and spatial information systems. , 2010, , .		1
92	Implementación de procesos de control de calidad en actualización de series cartográficas urbanas mediante CAD y SIG. Revista Cartográfica, 2021, , 47-69.	0.2	1
93	Reconstrucción de edificios y análisis urbanístico de centros históricos con fotogrametría aérea. Informes De La Construccion, 2021, 73, e398.	0.3	1
94	From the Point Cloud to Virtual and Augmented Reality: Digital Accessibility for Disabled People in San Martin's Church (Segovia) and Its Surroundings. Lecture Notes in Computer Science, 2011, , 303-317.	1.3	1
95	Learning and comprehension of terrain representation in cartographic design. , 2020, , .		1
96	Thermography as a method of acquiring competences in Physiology. Application case for hand blood flow control. , 2020, , .		1
97	Control charts based on MATLAB statistical and visualization tools as a compatible with e-learning methodology in the context of quality control.. , 2021, , .		1
98	Based-on simulation training on ventilation calculation for the reduction of occupational risk of SARS-CoV-2 infection. , 2021, , .		1
99	WELDMAP: A Photogrammetric Suite Applied to the Inspection of Welds. Applied Sciences (Switzerland), 2022, 12, 2553.	2.5	1
100	Synergies between Geomatics and Health Sciences for the creation of new virtual materials for teaching podiatry. , 2021, , .		0