JoaquÃ-n MartÃ-nez-SÃ¡nchez

List of Publications by Year
in descending order

79 papers	2,281 citations	257357 24 h-index	233338 45 g-index
81 all docs	81 docs citations	81 times ranked	2282 citing authors

#	Article	IF	Citations
1	Review of mobile mapping and surveying technologies. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2127-2145.	2.5	308
2	An algorithm for automatic detection of pole-like street furniture objects from Mobile Laser Scanner point clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 87, 47-56.	4.9	148
3	Metrological evaluation of Microsoft Kinect and Asus Xtion sensors. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1800-1806.	2.5	130
4	Unmanned Aerial Systems for Civil Applications: A Review. Drones, 2017, 1, 2.	2.7	130
5	Metrological comparison between Kinect I and Kinect II sensors. Measurement: Journal of the International Measurement Confederation, 2015, 70, 21-26.	2.5	97
6	Automatic thermographic and RGB texture of as-built BIM for energy rehabilitation purposes. Automation in Construction, 2013, 31, 230-240.	4.8	88
7	3D Modeling of Building Indoor Spaces and Closed Doors from Imagery and Point Clouds. Sensors, 2015, 15, 3491-3512.	2.1	82
8	4-Plane congruent sets for automatic registration of as-is 3D point clouds with 3D BIM models. Automation in Construction, 2018, 89, 120-134.	4.8	79
9	Segmentation and classification of road markings using MLS data. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 123, 94-103.	4.9	73
10	Traffic sign detection in MLS acquired point clouds for geometric and image-based semantic inventory. ISPRS Journal of Photogrammetry and Remote Sensing, 2016, 114, 92-101.	4.9	72
11	Automatic detection of zebra crossings from mobile LiDAR data. Optics and Laser Technology, 2015, 70, 63-70.	2.2	69
12	Energy efficiency studies through 3D laser scanning and thermographic technologies. Energy and Buildings, 2011, 43, 1216-1221.	3.1	65
13	Road Environment Semantic Segmentation with Deep Learning from MLS Point Cloud Data. Sensors, 2019, 19, 3466.	2.1	62
14	Measuring building faÃ§ades with a low-cost close-range photogrammetry system. Automation in Construction, 2010, 19, 742-749.	4.8	47
15	Automatic point cloud coarse registration using geometric keypoint descriptors for indoor scenes. Automation in Construction, 2017, 81, 134-148.	4.8	45
16	An automated approach to vertical road characterisation using mobile LiDAR systems: Longitudinal profiles and cross-sections. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 96, 28-37.	4.9	44
17	Thermographic test for the geometric characterization of cracks in welding using IR image rectification. Automation in Construction, 2016, 61, 58-65.	4.8	43
18	Automatic processing of Terrestrial Laser Scanning data of building faÃ§ades. Automation in Construction, 2012, 22, 298-305.	4.8	42

#	Article	IF	Citations
19	Automatic detection of road tunnel luminaires using a mobile LiDAR system. Measurement: Journal of the International Measurement Confederation, 2014, 47, 569-575.	2.5	42
20	Semiautomatic Extraction of Road Horizontal Alignment from a Mobile LiDAR System. Computer-Aided Civil and Infrastructure Engineering, 2015, 30, 217-228.	6.3	41
21	Mapping Forest Fire Riskâ€"A Case Study in Galicia (Spain). Remote Sensing, 2020, 12, 3705.	1.8	38
22	Automatic segmentation of road overpasses and detection of mortar efflorescence using mobile LiDAR data. Optics and Laser Technology, 2013, 54, 353-361.	2.2	33
23	A semi-automatic processing and visualisation tool for ground-penetrating radar pavement thickness data. Automation in Construction, 2014, 45, 42-49.	4.8	30
24	Determining the limits of unmanned aerial photogrammetry for the evaluation of road runoff. Measurement: Journal of the International Measurement Confederation, 2016, 85, 132-141.	2.5	29
25	UAV payload with collision mitigation for contact inspection. Automation in Construction, 2020, 115, 103200.	4.8	29
26	Prediction of depth model for cracks in steel using infrared thermography. Infrared Physics and Technology, 2015, 71, 492-500.	1.3	25
27	Semantic segmentation of major macroalgae in coastal environments using high-resolution ground imagery and deep learning. International Journal of Remote Sensing, 2021, 42, 1785-1800.	1.3	25
28	Scanning Technologies to Building Information Modelling: A Review. Infrastructures, 2022, 7, 49.	1.4	23
29	Novel image analysis approach to the terrestrial LiDAR monitoring of damage in rubble mound breakwaters. Ocean Engineering, 2014, 91, 273-280.	1.9	20
30	Single image rectification of thermal images for geometric studies in faÃ§ade inspections. Infrared Physics and Technology, 2012, 55, 421-426.	1.3	19
31	Metrological evaluation of KinectFusion and its comparison with Microsoft Kinect sensor. Measurement: Journal of the International Measurement Confederation, 2015, 73, 137-145.	2.5	19
32	UAV Photogrammetry Application to the Monitoring of Rubble Mound Breakwaters. Journal of Performance of Constructed Facilities, 2016, 30, .	1.0	17
33	Door recognition in cluttered building interiors using imagery and lidar data. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-5, 203-209.	0.2	17
34	Evaluation of point cloud registration using Monte Carlo method. Measurement: Journal of the International Measurement Confederation, 2016, 92, 264-270.	2.5	16
35	Individual Tree Segmentation Method Based on Mobile Backpack LiDAR Point Clouds. Sensors, 2021, 21, 6007.	2.1	16
36	Operational Study of Drone Spraying Application for the Disinfection of Surfaces against the COVID-19 Pandemic. Drones, 2021, 5, 18.	2.7	15

#	Article	IF	Citations
37	Payload for Contact Inspection Tasks with UAV Systems. Sensors, 2019, 19, 3752.	2.1	14
38	Automatic LiDAR-based lighting inventory in buildings. Measurement: Journal of the International Measurement Confederation, 2015, 73, 544-550.	2.5	13
39	Indoor Path-Planning Algorithm for UAV-Based Contact Inspection. Sensors, 2021, 21, 642.	2.1	13
40	Non-contact 3D Measurement of Buildings through Close Range Photogrammetry and a Laser Distance Meter. Photogrammetric Engineering and Remote Sensing, 2011, 77, 805-811.	0.3	11
41	Automatic Registration of Mobile LiDAR Data Using High-Reflectivity Traffic Signs. Journal of Construction Engineering and Management - ASCE, 2016, 142, .	2.0	11
42	Comparison between laser scanning, single-image rectification and ground-penetrating radar technologies in forensic science. Measurement: Journal of the International Measurement Confederation, 2012, 45, 836-843.	2.5	10
43	Successful Applications of Geotechnologies for the Evaluation of Road Infrastructures. Remote Sensing, 2014, 6, 7800-7818.	1.8	9
44	Autonomous Point Cloud Acquisition of Unknown Indoor Scenes. ISPRS International Journal of Geo-Information, 2018, 7, 250.	1.4	9
45	Novel Aerial 3D Mapping System Based on UAV Platforms and 2D Laser Scanners. Journal of Sensors, 2016, 2016, 1-8.	0.6	8
46	Canopy detection over roads using mobile lidar data. International Journal of Remote Sensing, 2020, 41, 1927-1942.	1.3	8
47	Segmentation of Indoor Mapping Point Clouds Applied to Crime Scenes Reconstruction. IEEE Transactions on Information Forensics and Security, 2015, 10, 1350-1358.	4.5	7
48	3D reconstruction of cubic armoured rubble mound breakwaters from incomplete lidar data. International Journal of Remote Sensing, 2015, 36, 5485-5503.	1.3	7
49	GPR for road inspection: Georeferencing and efficient approach to data processing and visualization. , 2014, , .		6
50	Quantitative Evaluation of CHT and GHT for Column Detection under Different Conditions of Data Quality. Journal of Computing in Civil Engineering, 2017, 31, .	2.5	6
51	Active UAV payload based on horizontal propellers for contact inspections tasks. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108106.	2.5	6
52	AUTOMATIC ROAD SIGN INVENTORY USING MOBILE MAPPING SYSTEMS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 717-723.	0.2	6
53	DETECTION OF GEOMETRIC KEYPOINTS AND ITS APPLICATION TO POINT CLOUD COARSE REGISTRATION. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B3, 187-194.	0.2	5
54	A software program for semi-automated measurement of building faÃ§ades. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1197-1206.	2.5	4

#	ARTICLE	IF	CITATIONS
55	Automatic Processing of Aerial LiDAR Data to Detect Vegetation Continuity in the Surroundings of Roads. Remote Sensing, 2020, 12, 1677.	1.8	4
56	AUTOMATIC DETECTION OF FOREST-ROAD DISTANCES TO IMPROVE CLEARING OPERATIONS IN ROAD MANAGEMENT. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 1083-1088.	0.2	4
57	UAV AND SATELLITE IMAGERY APPLIED TO ALIEN SPECIES MAPPING IN NW SPAIN. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 455-459.	0.2	4
58	SITEGI Project: Applying Geotechnologies to Road Inspection. Sensor Integration and software processing. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, II-5/W2, 181-186.	0.0	4
59	Low-cost mobile mapping system solution for traffic sign segmentation using Azure Kinect. International Journal of Applied Earth Observation and Geoinformation, 2022, 112, 102895.	0.9	4
60	New discretization method applied to NBV problem: Semioctree. PLoS ONE, 2018, 13, e0206259.	1.1	3
61	Metrological evaluation of vessel-based mobile lidar for survey of coastal structures. International Journal of Remote Sensing, 2015, 36, 2622-2633.	1.3	2
62	Wave Run-Up Monitoring on Rubble-Mound Breakwaters Using a Photogrammetric Methodology. Journal of Performance of Constructed Facilities, 2016, 30, 04015075.	1.0	2
63	Automatic Measurement of Water Height in the As Conchas (Spain) Reservoir Using Sentinel 2 and Aerial LiDAR Data. Remote Sensing, 2018, 10, 902.	1.8	2
64	FIRST APPROACH TO UAV-BASED CONTACT INSPECTION: A SMART PAYLOAD FOR NAVIGATION IN THE NEIGHBOURHOOD OF STRUCTURES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W13, 323-328.	0.2	2
65	PATH PLANNING FOR INDOOR CONTACT INSPECTION TASKS WITH UAVS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B4-2020, 345-351.	0.2	2
66	A CityGML extension for traffic-sign objects that guides the automatic processing of data collected using Mobile Mapping technology. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-1, 415-420.	0.2	2
67	SIMPLE APPROACHES TO IMPROVE THE AUTOMATIC INVENTORY OF ZEBRA CROSSING FROM MLS DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W3, 103-108.	0.2	2
68	AUTOMATIC MODELLING OF RUBBLE MOUND BREAKWATERS FROM LIDAR DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W3, 9-13.	0.2	2
69	AUTOMATIC THICKNESS AND VOLUME ESTIMATION OF SPRAYED CONCRETE ON ANCHORED RETAINING WALLS FROM TERRESTRIAL LIDAR DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B5, 521-526.	0.2	2
70	LOW-ALTITUDE LONG-ENDURANCE SOLAR UNMANNED PLANE FOR FOREST FIRE PREVENTION: APPLICATION TO THE NATURAL PARK OF SERRA DO XURES (SPAIN). International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W6, 135-139.	0.2	2
71	Influence of mobile light detecting and ranging data quality in road runoff evaluation. Journal of Applied Remote Sensing, 2016, 10, 044001.	0.6	1
72	AUTOMATED STRUCTURAL FOREST CHANGES USING LIDAR POINT CLOUDS AND GIS ANALYSES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2021, 603-608.	0.2	1

#	ARTICLE	IF	CITATIONS
73	INFLUENCE OF THE PRECISION OF LIDAR DATA IN SURFACE WATER RUNOFF ESTIMATION FOR ROAD MAINTENANCE. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-3/W3, 3-8.	0.2	1
74	Close Range Photogrammetry: Fundamentals, Principles and Applications in Structures. Structures and Infrastructures Series, 2016, , 35-57.	0.2	1
75	HEURISTIC GENERATION OF MULTISPECTRAL LABELED POINT CLOUD DATASETS FOR DEEP LEARNING MODELS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B2-2022, 571-576.	0.2	1
76	Road Management Using Mobile LiDAR Data. Software Testing. Structures and Infrastructures Series, 2016, , 293-301.	0.2	0
77	OPERATIONAL STUDY OF DRONE SPRAYING APPLICATION OF PHYTOSANITARY PRODUCTS IN VINEYARDS. Dyna (Spain), 2022, 97, 23-26.	0.1	0
78	Latest trends for condition assessment using non-destructive techniques. IABSE Symposium Report, 2022, , .	0.0	0
79	SPATIAL ANALYSIS OF TREE SPECIES BEFORE FOREST FIRES. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLIII-B3-2022, 959-966.	0.2	0