Antonio AdÃ¡n Oliver

List of Publications by Year
in descending order

89 papers	1,778 citations	394286 19 h-index	330025 37 g-index
94 all docs	94 docs citations	94 times ranked	1319 citing authors

#	Article	IF	Citations
1	Repairing 3D Models Obtained From Range Sensors. IEEE Access, 2021, 9, 43474-43493.	2.6	1
2	3D Sensor-Fusion for the Documentation of Rural Heritage Buildings. Remote Sensing, 2021, 13, 1337.	1.8	7
3	Proposing 3D Thermal Technology for Heritage Building Energy Monitoring. Remote Sensing, 2021, 13, 1537.	1.8	7
4	Preparation and enhancement of 3D laser scanner data for realistic coloured BIM models. Visual Computer, 2020, 36, 113-126.	2.5	7
5	An autonomous robotic platform for automatic extraction of detailed semantic models of buildings. Automation in Construction, 2020, 109, 102963.	4.8	36
6	3D-TTA: A Software Tool for Analyzing 3D Temporal Thermal Models of Buildings. Remote Sensing, 2020, 12, 2250.	1.8	4
7	Towards the Use of 3D Thermal Models in Constructions. Sustainability, 2020, 12, 8521.	1.6	3
8	Passing through Open/Closed Doors: A Solution for 3D Scanning Robots. Sensors, 2019, 19, 4740.	2.1	11
9	Autonomous Mobile Scanning Systems for the Digitization of Buildings: A Review. Remote Sensing, 2019, 11, 306.	1.8	23
10	Reconstruction of As-is Semantic 3D Models of Unorganised Storehouses. , 2019, , .		0
11	An appraisal of the geometry and energy efficiency of parabolic trough collectors with laser scanners and image processing. Renewable Energy, 2019, 134, 64-77.	4.3	4
12	An Autonomous Thermal Scanning System with Which to Obtain 3D Thermal Models of Buildings. , 2019, , 489-496.		4
13	Door detection in 3D coloured point clouds of indoor environments. Automation in Construction, 2018, 85, 146-166.	4.8	55
14	Scan-to-BIM for â€˜secondaryâ€™ building components. Advanced Engineering Informatics, 2018, 37, 119-138.	4.0	55
15	Application of Multisensory Technology for Resolution of Problems in the Field of Research and Preservation of Cultural Heritage. Lecture Notes in Computer Science, 2018, , 32-47.	1.0	5
16	Obtaining and Monitoring Warehouse 3D Models with Laser Scanner Data. Advances in Intelligent Systems and Computing, 2018, , 227-238.	0.5	1
17	Recognition and Positioning of SBCs in BIM Models Using a Geometric vs Colour Consensus Approach. , 2018, , .		1
18	As-is building-structure reconstruction from a probabilistic next best scan approach. Robotics and Autonomous Systems, 2017, 94, 186-207.	3.0	27

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19	Fusion of thermal imagery and LiDAR data for generating TBIM models. , 2017, , .		11
20	Autonomous Scanning of Structural Elements in Buildings. Lecture Notes in Computer Science, 2017, , 60-67.	1.0	0
21	A Comparison of Tactile Sensors for In-Hand Object Location. Journal of Sensors, 2016, 2016, 1-12.	0.6	1
22	Door detection in 3D colored laser scans for autonomous indoor navigation. , 2016, , .		14
23	A comparison of hole-filling methods in 3D. International Journal of Applied Mathematics and Computer Science, 2016, 26, 885-903.	1.5	24
24	Semantic scan planning for indoor structural elements of buildings. Advanced Engineering Informatics, 2016, 30, 643-659.	4.0	31
25	Integration of RFID with other technologies in construction. Measurement: Journal of the International Measurement Confederation, 2016, 94, 614-620.	2.5	62
26	Semantic 3D Reconstruction of Furnished Interiors Using Laser Scanning and RFID Technology. Journal of Computing in Civil Engineering, 2016, 30, .	2.5	44
27	A framework for the analysis of parabolic trough collectors using 3D data from laser scanners. , 2015, , .		0
28	Evolution of RFID Applications in Construction: A Literature Review. Sensors, 2015, 15, 15988-16008.	2.1	107
29	Towards the Automatic Scanning of Indoors with Robots. Sensors, 2015, 15, 11551-11574.	2.1	29
30	Speeding up Derivative Configuration from Product Platforms. Entropy, 2014, 16, 3329-3356.	1.1	53
31	Furnished Interiors Modeling with Laser Scanners and RFID. , 2014, , .		0
32	Evolution of RFID Applications in Construction: A Literature Review. Lecture Notes in Computer Science, 2014, , 191-199.	1.0	2
33	Consensus strategy for clustering using RC-images. Pattern Recognition, 2014, 47, 402-417.	5.1	2
34	In-hand object localization: Simple vs. complex tactile sensors. , 2014, , .		5
35	Automatic creation of semantically rich 3D building models from laser scanner data. Automation in Construction, 2013, 31, 325-337.	4.8	513
36	Direction Kernels: using a simplified 3D model representation for grasping. Machine Vision and Applications, 2013, 24, 351-370.	1.7	2

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37	Automatic Method for Building Indoor Boundary Models from Dense Point Clouds Collected by Laser Scanners. Sensors, 2012, 12, 16099-16115.	2.1	70
38	Automatic Construction of 3D Basic-Semantic Models of Inhabited Interiors Using Laser Scanners and RFID Sensors. Sensors, 2012, 12, 5705-5724.	2.1	47
39	Geometric and Colour Data Fusion for Outdoor 3D Models. Sensors, 2012, 12, 6893-6919.	2.1	11
40	Nonprobabilistic anytime algorithm for high-quality trajectories in high-dimensional spaces. Robotica, 2012, 30, 289-303.	1.3	2
41	A hybrid human–computer approach for recovering incomplete cultural heritage pieces. Computers and Graphics, 2012, 36, 1-15.	1.4	15
42	3D real-time positioning for autonomous navigation using a nine-point landmark. Pattern Recognition, 2012, 45, 578-595.	5.1	2
43	2D shape representation and similarity measurement for 3D recognition problems: An experimental analysis. Pattern Recognition Letters, 2012, 33, 199-217.	2.6	8
44	Extracting Understandable 3D Object Groups with Multiple Similarity Metrics. Lecture Notes in Computer Science, 2012, , 179-186.	1.0	0
45	3D Reconstruction of Interior Wall Surfaces under Occlusion and Clutter. , 2011, , .		113
46	3D scene retrieval and recognition with Depth Gradient Images. Pattern Recognition Letters, 2011, 32, 1337-1353.	2.6	21
47	Restitution of Sculptural Groups Using 3D Scanners. Sensors, 2011, 11, 8497-8518.	2.1	14
48	Automatic Creation of Semantically Rich 3D Building Models from Laser Scanner Data. , 2011, , .		22
49	Detection, Modeling and Classification of Moldings for Automated Reverse Engineering of Buildings from 3D Data. , 2011, , .		9
50	CSS-AFFN: A Dataset Representation Model for Active Recognition Systems. Lecture Notes in Computer Science, 2011, , 402-409.	1.0	0
51	Using laser scanners for modeling and analysis in architecture, engineering, and construction. , 2010, , .		36
52	Improved Method for Object Recognition in Complex Scenes by Fusioning 3-D Information and RFID Technology. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3473-3480.	2.4	19
53	Moving surface extraction based on unordered hexagonal perfect submaps projection: Applications to 3D feature tracking. Image and Vision Computing, 2009, 27, 1083-1096.	2.7	6
54	Landmark Real-Time Recognition and Positioning for Pedestrian Navigation. Lecture Notes in Computer Science, 2009, , 21-28.	1.0	3

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55	A New Segmentation Approach for Old Fractured Pieces. Lecture Notes in Computer Science, 2009, , 161-168.	1.0	0
56	3D scene analysis from a single range image through occlusion graphs. Pattern Recognition Letters, 2008, 29, 1105-1116.	2.6	6
57	Active object recognition based on Fourier descriptors clustering. Pattern Recognition Letters, 2008, 29, 1060-1071.	2.6	12
58	Biometric verification/identification based on hands natural layout. Image and Vision Computing, 2008, 26, 451-465.	2.7	44
59	Identification and pose under severe occlusion in range images. , 2008, , .		2
60	A Robust Method for Filling Holes in 3D Meshes Based on Image Restoration. Lecture Notes in Computer Science, 2008, , 742-751.	1.0	6
61	Monocular Model-Based 3D Location for Autonomous Robots. Lecture Notes in Computer Science, 2008, , 594-604.	1.0	2
62	Using Non Local Features for 3D Shape Grouping. Lecture Notes in Computer Science, 2008, , 644-653.	1.0	3
63	Depth Gradient Image Based On Silhouette: A Solution for Reconstruction Of Scenes in 3D Environments. , 2008, , 219-231.		1
64	3D Vision System for Robot Interaction in Moving Scenes. , 2007, , .		3
65	Reconocimiento de objetos de forma libre a partir de los datos de rango de una vista parcial usando cono curvaturas ponderadas. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2007, 4, 95-106.	0.6	5
66	Exploration trees on highly complex scenes: A new approach for 3D segmentation. Pattern Recognition, 2007, 40, 1879-1898.	5.1	9
67	Recognition of Free-Form Objects in Complex Scenes Using DGI-BS Models. , 2006, , .		4
68	Path Planning for Manipulation Environments through Interpolated Walks. , 2006, , .		1
69	PARTIAL VIEWS MATCHING USING A METHOD BASED ON PRINCIPAL COMPONENTS. , 2006, , 159-166.		0
70	Objects layout graph for 3D complex scenes. , 2005, , .		3
71	Free-Shaped Object Recognition Method from Partial Views Using Weighted Cone Curvatures. Lecture Notes in Computer Science, 2005, , 222-232.	1.0	1
72	A flexible similarity measure for 3D shapes recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1507-1520.	9.7	30

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73	Fuzzy-Snake Segmentation of Anatomical Structures Applied to CT Images. Lecture Notes in Computer Science, 2004, , 33-42.	1.0	11
74	Clustering Using WCC Models. Lecture Notes in Computer Science, 2004, , 921-929.	1.0	0
75	Solids Characterization Using Modeling Wave Structures. Lecture Notes in Computer Science, 2003, , 1-10.	1.0	2
76	3D Complex Scenes Segmentation from a Single Range Image Using Virtual Exploration. Lecture Notes in Computer Science, 2002, , 923-932.	1.0	6
77	Global shape invariants: a solution for 3D free-form object discrimination/identification problem. Pattern Recognition, 2001, 34, 1331-1348.	5.1	17
78	Automatic pose determination of 3D shapes based on modeling wave sets: a new data structure for object modeling. Image and Vision Computing, 2001, 19, 867-890.	2.7	2
79	Modeling Wave Set: Definition and Application of a New Topological Organization for 3D Object Modeling. Computer Vision and Image Understanding, 2000, 79, 281-307.	3.0	19
80	A fast mesh deformation method to build spherical representation models of 3D objects. Lecture Notes in Computer Science, 1997, , 482-489.	1.0	5
81	Automatic orienting of 3D shapes by using a new data structure for object modeling. , 0, , .		3
82	HWM: a new spherical representation structure for modeling partial views of an object. , 0, , .		5
83	Well structured robot positioning control strategy for position based visual servoing. , 0, , .		2
84	Reconstruction of spherical representation models from multiple partial models. , 0, , .		1
85	A 3-D object shape recovering system for active scenes using colour disordered patterns. , 0, , .		1
86	Weighted cone-curvature:applications for 3D shapes similarity. , 0, , .		0
87	Disordered patterns projection for 3D motion recovering. , 0, , .		6
88	3D Feature Tracking Using a Dynamic Structured Light System. , 0, , .		10
89	3D grasping solutions through MWS models. , 0, , .		0