Julio CÃ©sar RodrÃguez-QuiÃ±onez

List of Publications by Year
in descending order

91 papers	1,209 citations	516215 16 h-index	433756 31 g-index
92 all docs	92 docs citations	92 times ranked	631 citing authors

#	Article	IF	Citations
1	Optical 3D laser measurement system for navigation of autonomous mobile robot. Optics and Lasers in Engineering, 2014, 54, 159-169.	2.0	105
2	Surface recognition improvement in 3D medical laser scanner using Levenbergâ€“Marquardt method. Signal Processing, 2013, 93, 378-386.	2.1	67
3	Improve a 3D distance measurement accuracy in stereo vision systems using optimization methodsâ€™ approach. Opto-electronics Review, 2017, 25, 24-32.	2.4	64
4	Mobile robot vision system using continuous laser scanning for industrial application. Industrial Robot, 2016, 43, 360-369.	1.2	62
5	Data transferring model determination in robotic group. Robotics and Autonomous Systems, 2016, 83, 251-260.	3.0	59
6	Combined application of Power Spectrum Centroid and Support Vector Machines for measurement improvement in Optical Scanning Systems. Signal Processing, 2014, 98, 37-51.	2.1	58
7	Optimization of 3D laser scanning speed by use of combined variable step. Optics and Lasers in Engineering, 2014, 54, 141-151.	2.0	52
8	Influence of data clouds fusion from 3D real-time vision system on robotic group dead reckoning in unknown terrain. IEEE/CAA Journal of Automatica Sinica, 2020, 7, 368-385.	8.5	47
9	Exact laser beam positioning for measurement of vegetation vitality. Industrial Robot, 2017, 44, 532-541.	1.2	46
10	Optical monitoring of scoliosis by 3D medical laser scanner. Optics and Lasers in Engineering, 2014, 54, 175-186.	2.0	44
11	Improve three-dimensional point localization accuracy in stereo vision systems using a novel camera calibration method. International Journal of Advanced Robotic Systems, 2020, 17, 172988141989671.	1.3	39
12	Improve 3D laser scanner measurements accuracy using a FFBP neural network with Widrow-Hoff weight/bias learning function. Opto-electronics Review, 2014, 22, .	2.4	33
13	Energy Center Detection in Light Scanning Sensors for Structural Health Monitoring Accuracy Enhancement. IEEE Sensors Journal, 2014, 14, 2355-2361.	2.4	33
14	Experimental image and range scanner datasets fusion in SHM for displacement detection. Structural Control and Health Monitoring, 2017, 24, e1967.	1.9	31
15	Multivariate outlier mining and regression feedback for 3D measurement improvement in opto-mechanical system. Optical and Quantum Electronics, 2016, 48, 1.	1.5	25
16	Machine vision system errors for unmanned aerial vehicle navigation. , 2017, , .		25
17	Resolution improvement of dynamic triangulation method for 3D vision system in robot navigation task. , 2010, , .		23
18	3D laser scanning vision system for autonomous robot navigation. , 2010, , .		19

#	Article	IF	Citations
19	Continuous 3D scanning mode using servomotors instead of stepping motors in dynamic laser triangulation. , 2015, , .		19
20	Machine vision system for UAV navigation. , 2016, , .		19
21	Comparison between Different Types of Sensors Used in the Real Operational Environment Based on Optical Scanning System. Sensors, 2018, 18, 1684.	2.1	18
22	Optical cyber-physical system embedded on an FPGA for 3D measurement in structural health monitoring tasks. Microprocessors and Microsystems, 2018, 56, 121-133.	1.8	14
23	Constraints definition and application optimization based on geometric analysis of the frequency measurement method by pulse coincidence. Measurement: Journal of the International Measurement Confederation, 2018, 126, 184-193.	2.5	13
24	Resolution improvement of accelerometers measurement for drones in agricultural applications. , 2016, , .		11
25	Electrolyte Magnetohydrondyamics Flow Sensing in an Open Annular Channelâ€"A Vision System for Validation of the Mathematical Model. Sensors, 2018, 18, 1683.	2.1	11
26	Software Advances using n-agents Wireless Communication Integration for Optimization of Surrounding Recognition and Robotic Group Dead Reckoning. Programming and Computer Software, 2019, 45, 557-569.	0.5	11
27	Accuracy improvement in 3D laser scanner based on dynamic triangulation for autonomous navigation system. , 2017, , .		11
28	Novel Sensing Approaches for Structural Deformation Monitoring and 3D Measurements. IEEE Sensors Journal, 2021, 21, 11318-11328.	2.4	11
29	ObtenciÃ³n de Trayectorias Empleando el Marco Strapdown INS/KF: Propuesta MetodolÃ³gica.. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 15, 391.	0.6	11
30	Effective informational entropy reduction in multi-robot systems based on real-time TVS. , 2019, , .		10
31	A methodological use of inertial navigation systems for strapdown navigation task. , 2017, , .		9
32	Implementing k-Nearest Neighbor Algorithm on Scanning Aperture for Accuracy Improvement. , 2018, , .		9
33	Surface Measurement Techniques in Machine Vision. Advances in Computational Intelligence and Robotics Book Series, 2019, , 79-104.	0.4	9
34	Mobile Robot Path Planning Using Continuous Laser Scanning. Advances in Computational Intelligence and Robotics Book Series, 2019, , 338-372.	0.4	9
35	Vehicle detection using an infrared light emitter and a photodiode as visualization system. , 2015, , .		8
36	UAV remote laser scanner improvement by continuous scanning using DC motors. , 2016, , .		8

#	Article	IF	Citations
37	Scanning for light detection and Energy Centre Localization Methods assesment in vision systems for SHM. , 2014, , .		7
38	Issues of exact laser ray positioning using DC motors for vision-based target detection. , 2016, , .		7
39	Machine Vision Sensors. Journal of Sensors, 2018, 2018, 1-2.	0.6	7
40	A Lean Convolutional Neural Network for Vehicle Classification. , 2020, , .		7
41	ImplementaciÃ³n digital de filtros FIR para la minimizaciÃ³n del ruido Ã³ptico y optoelectrÃ³nico de un sistema de barrido Ã³ptico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2019, 16, 344.	0.6	7
42	Optoelectronic 3D laser scanning technical vision system based on dynamic triangulation. , 2012, , .		6
43	Structural Health Monitoring based on Optical Scanning Systems and SVM. , 2014, , .		6
44	Machine vision supported by artificial intelligence. , 2014, , .		6
45	Optoelectronic instrumentation enhancement using data mining feedback for a 3D measurement system. Optical Review, 2016, 23, 891-896.	1.2	6
46	Accuracy Improvement by Artificial Neural Networks in Technical Vision System. , 2019, , .		6
47	Robust tracking control for mechanical systems using only position measurements. ISA Transactions, 2020, 100, 299-307.	3.1	6
48	Geometric analysis of a laser scanner functioning based on dynamic triangulation. , 2020, , .		6
49	Continuous monitoring of rehabilitation in patients with scoliosis using automatic laser scanning. , 2011, , .		5
50	Optimal kinematic control of a robotic excavator with laser TVS feedback. , 2013, , .		5
51	Rational approximations principle for frequency shifts measurement in frequency domain sensors. , 2015, , .		5
52	Optoelectronic scanning system upgrade by energy center localization methods. Optoelectronics, Instrumentation and Data Processing, 2016, 52, 592-600.	0.2	5
53	Defining the Final Angular Position of DC Motor shaft using a Trapezoidal Trajectory Profile. , 2019, , .		5
54	Obtaining Object Information from Stereo Vision System for Autonomous Vehicles. , 2021, , .		5

#	Article	IF	Citations
55	Some Model Properties to Control a Permanent Magnet Machine Using a Controlled Invariant Subspaceâ¨... IFAC-PapersOnLine, 2015, 48, 366-371.	0.5	4
56	Control theory and signal processing in machine vision for navigation. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092647.	1.3	4
57	Stereoscopic Vision Systems in Machine Vision, Models, and Applications. , 2020, , 241-265.		4
58	Reconocimiento de patrones aplicando LDA y LR a seÃ±ales optoelectrÃ³nicas de sistemas de barrido Ã³ptico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 401.	0.6	4
59	Instability measurement in time-frequency references used on autonomous navigation systems. , 2015, , .		3
60	Photodiode and charge-coupled device fusioned sensors. , 2015, , .		3
61	High resolution measurement of physical variables change for INS. , 2016, , .		3
62	Robust Continuous Control for a Class of Mechanical Systems Based on Nonsingular Terminal Sliding Mode. IEEE Access, 2020, 8, 19297-19305.	2.6	3
63	Guest Editorial Special Issue on Sensors in Machine Vision of Automated Systems. IEEE Sensors Journal, 2021, 21, 11242-11243.	2.4	3
64	Accuracy improvement of vision system for mobile robot navigation by finding the energetic center of laser signal. , 2014, , .		2
65	Improve laser detection in CCD for integrated photogrammetry - Laser scanner. , 2014, , .		2
66	Online SHM Optical Scanning Data Exchange. , 2016, , .		2
67	Home and building automation through social networks. , 2017, , .		2
68	Reduction of Angular Position Error of a Machine Vision System Using the Digital Controller LM629. , 2018, , .		2
69	Sensors for structural health monitoring. , 2020, , 227-248.		2
70	Machine Vision Optical Scanners for Landslide Monitoring. Advances in Computational Intelligence and Robotics Book Series, 2017, , 206-235.	0.4	2
71	Data Exchange and Task of Navigation for Robotic Group. , 2020, , 389-430.		2
72	Intelligent Automatic Object Tracking Method by Integration of Laser Scanner System and INS. Programming and Computer Software, 2020, 46, 619-625.	0.5	2

#	Article	IF	Citations
73	Positioning Improvement for a Laser Scanning System using cSORPD control. , 2021, , .		2
74	Outlier mining of a vision sensing databasefor SVM regression improvement. , 2015, , .		1
75	Magnetohydrodynamic velocity profile measurement for microelectromechanical systems micro-robot design. International Journal of Advanced Robotic Systems, 2019, 16, 172988141987561.	1.3	1
76	Classification of Vehicle Images through Deep Neural Networks for Camera View Position Selection. , 2020, , .		1
77	Improvements of an Optical Scanning System for Indoor Localization Based on Defuzzification Methods. IEEE Sensors Journal, 2022, 22, 4808-4815.	2.4	1
78	Reducing the Optical Noise of Machine Vision Optical Scanners for Landslide Monitoring. Advances in Computational Intelligence and Robotics Book Series, 2021, , 103-133.	0.4	1
79	Applying Optoelectronic Devices Fusion in Machine Vision. Advances in Computational Intelligence and Robotics Book Series, 2017, , 1-37.	0.4	1
80	Applying Optoelectronic Devices Fusion in Machine Vision. , 2020, , 184-213.		1
81	Digital Control Theory Application and Signal Processing in a Laser Scanning System Applied for Mobile Robotics. Advances in Computational Intelligence and Robotics Book Series, 2020, , 215-265.	0.4	1
82	Analysis of laser light reflectance on the human skin for optoelectronic devices. , 2012, , .		0
83	Virtual angle measurement through an FPGA data processing. , 2017, , .		0
84	An MHD Stirrer 2D Velocity Profile Measurement Validation Through a Machine Vision System. , 2019, , .		0
85	The Use of Factorization and Multimode Parametric Spectra in Estimating Frequency and Spectral Parameters of Signal. , 2020, , .		0
86	A comparative example between the use of PCA and MDS for image classification. , 2020, , .		0
87	Advances in Laser Scanners. Advances in Computational Intelligence and Robotics Book Series, 2021, , 37-70.	0.4	0
88	Optoelectronic Devices Fusion in Machine Vision Applications. Advances in Computational Intelligence and Robotics Book Series, 2021, , 1-36.	0.4	0
89	Intelligent Automatic Object Tracking Method by Integration of Laser Scanner System and INS. Proceedings of the Institute for System Programming of RAS, 2021, 33, 59-64.	0.1	0
90	Mean of Maximum Method for Optical Scanning System. , 2021, , .		0

#	Article	IF	Citations
91	Full-State Control of Rotary Pendulum Using LQR Controller. Advances in IT Standards and Standardization Research Series, 2022, , 75-117.	0.2	0