

Julio César Rodríguez-Quironez

List of Publications by Year in descending order

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91
papers

1,209
citations

516215

16
h-index

433756

31
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92
all docs

92
docs citations

92
times ranked

631
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements of an Optical Scanning System for Indoor Localization Based on Defuzzification Methods. IEEE Sensors Journal, 2022, 22, 4808-4815.	2.4	1
2	Full-State Control of Rotary Pendulum Using LQR Controller. Advances in IT Standards and Standardization Research Series, 2022, , 75-117.	0.2	0
3	Advances in Laser Scanners. Advances in Computational Intelligence and Robotics Book Series, 2021, , 37-70.	0.4	0
4	Optoelectronic Devices Fusion in Machine Vision Applications. Advances in Computational Intelligence and Robotics Book Series, 2021, , 1-36.	0.4	0
5	Guest Editorial Special Issue on Sensors in Machine Vision of Automated Systems. IEEE Sensors Journal, 2021, 21, 11242-11243.	2.4	3
6	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
7	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
8	Novel Sensing Approaches for Structural Deformation Monitoring and 3D Measurements. IEEE Sensors Journal, 2021, 21, 11318-11328.	2.4	11
9	Obtaining Object Information from Stereo Vision System for Autonomous Vehicles. , 2021, , .		5
10	Mean of Maximum Method for Optical Scanning System. , 2021, , .		0
11	Positioning Improvement for a Laser Scanning System using cSORPD control. , 2021, , .		2
12	Robust tracking control for mechanical systems using only position measurements. ISA Transactions, 2020, 100, 299-307.	3.1	6
13	The Use of Factorization and Multimode Parametric Spectra in Estimating Frequency and Spectral Parameters of Signal. , 2020, , .		0
14	A comparative example between the use of PCA and MDS for image classification. , 2020, , .		0
15	A Lean Convolutional Neural Network for Vehicle Classification. , 2020, , .		7
16	Geometric analysis of a laser scanner functioning based on dynamic triangulation. , 2020, , .		6
17	Control theory and signal processing in machine vision for navigation. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092647.	1.3	4
18	Classification of Vehicle Images through Deep Neural Networks for Camera View Position Selection. , 2020, , .		1

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19	Robust Continuous Control for a Class of Mechanical Systems Based on Nonsingular Terminal Sliding Mode. IEEE Access, 2020, 8, 19297-19305.	2.6	3
20	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
21	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
22	Sensors for structural health monitoring. , 2020, , 227-248.		2
23	Applying Optoelectronic Devices Fusion in Machine Vision. , 2020, , 184-213.		1
24	Stereoscopic Vision Systems in Machine Vision, Models, and Applications. , 2020, , 241-265.		4
25	Data Exchange and Task of Navigation for Robotic Group. , 2020, , 389-430.		2
26	Intelligent Automatic Object Tracking Method by Integration of Laser Scanner System and INS. Programming and Computer Software, 2020, 46, 619-625.	0.5	2
27	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
28	Reconocimiento de patrones aplicando LDA y LR a señales optoelectrónicas de sistemas de barrido 3D. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 401.	0.6	4
29	Magnetohydrodynamic velocity profile measurement for microelectromechanical systems micro-robot design. International Journal of Advanced Robotic Systems, 2019, 16, 172988141987561.	1.3	1
30	Defining the Final Angular Position of DC Motor shaft using a Trapezoidal Trajectory Profile. , 2019, , .		5
31	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
32	Accuracy Improvement by Artificial Neural Networks in Technical Vision System. , 2019, , .		6
33	Effective informational entropy reduction in multi-robot systems based on real-time TVS. , 2019, , .		10
34	An MHD Stirrer 2D Velocity Profile Measurement Validation Through a Machine Vision System. , 2019, , .		0
35	Surface Measurement Techniques in Machine Vision. Advances in Computational Intelligence and Robotics Book Series, 2019, , 79-104.	0.4	9
36	Mobile Robot Path Planning Using Continuous Laser Scanning. Advances in Computational Intelligence and Robotics Book Series, 2019, , 338-372.	0.4	9

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37	Implementación digital de filtros FIR para la minimización del ruido óptico y optoelectrónico de un sistema de barrido óptico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2019, 16, 344.	0.6	7
38	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
39	Reduction of Angular Position Error of a Machine Vision System Using the Digital Controller LM629. , 2018, , .		2
40	Implementing k-Nearest Neighbor Algorithm on Scanning Aperture for Accuracy Improvement. , 2018, , .		9
41	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
42	Machine Vision Sensors. Journal of Sensors, 2018, 2018, 1-2.	0.6	7
43	Electrolyte Magnetohydrodynamics Flow Sensing in an Open Annular Channel—A Vision System for Validation of the Mathematical Model. Sensors, 2018, 18, 1683.	2.1	11
44	Comparison between Different Types of Sensors Used in the Real Operational Environment Based on Optical Scanning System. Sensors, 2018, 18, 1684.	2.1	18
45	Obtención de Trayectorias Empleando el Marco Strapdown INS/KF: Propuesta Metodológica.. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 15, 391.	0.6	11
46	Experimental image and range scanner datasets fusion in SHM for displacement detection. Structural Control and Health Monitoring, 2017, 24, e1967.	1.9	31
47	A methodological use of inertial navigation systems for strapdown navigation task. , 2017, , .		9
48	Machine vision system errors for unmanned aerial vehicle navigation. , 2017, , .		25
49	Virtual angle measurement through an FPGA data processing. , 2017, , .		0
50	Improve a 3D distance measurement accuracy in stereo vision systems using optimization methods—™ approach. Opto-electronics Review, 2017, 25, 24-32.	2.4	64
51	Home and building automation through social networks. , 2017, , .		2
52	Exact laser beam positioning for measurement of vegetation vitality. Industrial Robot, 2017, 44, 532-541.	1.2	46
53	Accuracy improvement in 3D laser scanner based on dynamic triangulation for autonomous navigation system. , 2017, , .		11
54	Applying Optoelectronic Devices Fusion in Machine Vision. Advances in Computational Intelligence and Robotics Book Series, 2017, , 1-37.	0.4	1

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55	Machine Vision Optical Scanners for Landslide Monitoring. Advances in Computational Intelligence and Robotics Book Series, 2017, , 206-235.	0.4	2
56	High resolution measurement of physical variables change for INS. , 2016, , .		3
57	Machine vision system for UAV navigation. , 2016, , .		19
58	Online SHM Optical Scanning Data Exchange. , 2016, , .		2
59	UAV remote laser scanner improvement by continuous scanning using DC motors. , 2016, , .		8
60	Resolution improvement of accelerometers measurement for drones in agricultural applications. , 2016, , .		11
61	Data transferring model determination in robotic group. Robotics and Autonomous Systems, 2016, 83, 251-260.	3.0	59
62	Multivariate outlier mining and regression feedback for 3D measurement improvement in opto-mechanical system. Optical and Quantum Electronics, 2016, 48, 1.	1.5	25
63	Mobile robot vision system using continuous laser scanning for industrial application. Industrial Robot, 2016, 43, 360-369.	1.2	62
64	Optoelectronic instrumentation enhancement using data mining feedback for a 3D measurement system. Optical Review, 2016, 23, 891-896.	1.2	6
65	Optoelectronic scanning system upgrade by energy center localization methods. Optoelectronics, Instrumentation and Data Processing, 2016, 52, 592-600.	0.2	5
66	Issues of exact laser ray positioning using DC motors for vision-based target detection. , 2016, , .		7
67	Instability measurement in time-frequency references used on autonomous navigation systems. , 2015, , .		3
68	Outlier mining of a vision sensing database for SVM regression improvement. , 2015, , .		1
69	Rational approximations principle for frequency shifts measurement in frequency domain sensors. , 2015, , .		5
70	Vehicle detection using an infrared light emitter and a photodiode as visualization system. , 2015, , .		8
71	Photodiode and charge-coupled device fused sensors. , 2015, , .		3
72	Continuous 3D scanning mode using servomotors instead of stepping motors in dynamic laser triangulation. , 2015, , .		19

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73	Some Model Properties to Control a Permanent Magnet Machine Using a Controlled Invariant Subspace~.... IFAC-PapersOnLine, 2015, 48, 366-371.	0.5	4
74	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
75	Accuracy improvement of vision system for mobile robot navigation by finding the energetic center of laser signal. , 2014, , .		2
76	Structural Health Monitoring based on Optical Scanning Systems and SVM. , 2014, , .		6
77	Machine vision supported by artificial intelligence. , 2014, , .		6
78	Scanning for light detection and Energy Centre Localization Methods assesment in vision systems for SHM. , 2014, , .		7
79	Improve laser detection in CCD for integrated photogrammetry - Laser scanner. , 2014, , .		2
80	Optical monitoring of scoliosis by 3D medical laser scanner. Optics and Lasers in Engineering, 2014, 54, 175-186.	2.0	44
81	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
82	Energy Center Detection in Light Scanning Sensors for Structural Health Monitoring Accuracy Enhancement. IEEE Sensors Journal, 2014, 14, 2355-2361.	2.4	33
83	Optimization of 3D laser scanning speed by use of combined variable step. Optics and Lasers in Engineering, 2014, 54, 141-151.	2.0	52
84	Optical 3D laser measurement system for navigation of autonomous mobile robot. Optics and Lasers in Engineering, 2014, 54, 159-169.	2.0	105
85	Surface recognition improvement in 3D medical laser scanner using Levenbergâ€œMarquardt method. Signal Processing, 2013, 93, 378-386.	2.1	67
86	Optimal kinematic control of a robotic excavator with laser TVS feedback. , 2013, , .		5
87	Optoelectronic 3D laser scanning technical vision system based on dynamic triangulation. , 2012, , .		6
88	Analysis of laser light reflectance on the human skin for optoelectronic devices. , 2012, , .		0
89	Continuous monitoring of rehabilitation in patients with scoliosis using automatic laser scanning. , 2011, , .		5
90	Resolution improvement of dynamic triangulation method for 3D vision system in robot navigation task. , 2010, , .		23

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91	3D laser scanning vision system for autonomous robot navigation. , 2010, , .		19