

# Wendy Flores-Fuentes

## List of Publications by Year in descending order

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87  
papers

881  
citations

687363  
13  
h-index

552781  
26  
g-index

88  
all docs

88  
docs citations

88  
times ranked

474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improve a 3D distance measurement accuracy in stereo vision systems using optimization methodsâ€™ approach. Opto-electronics Review, 2017, 25, 24-32.	2.4	64
2	Mobile robot vision system using continuous laser scanning for industrial application. Industrial Robot, 2016, 43, 360-369.	2.1	62
3	Data transferring model determination in robotic group. Robotics and Autonomous Systems, 2016, 83, 251-260.	5.1	59
4	Combined application of Power Spectrum Centroid and Support Vector Machines for measurement improvement in Optical Scanning Systems. Signal Processing, 2014, 98, 37-51.	3.7	58
5	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.	13.1	47
6	Exact laser beam positioning for measurement of vegetation vitality. Industrial Robot, 2017, 44, 532-541.	2.1	46
7	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.	2.1	39
8	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
9	Energy Center Detection in Light Scanning Sensors for Structural Health Monitoring Accuracy Enhancement. IEEE Sensors Journal, 2014, 14, 2355-2361.	4.7	33
10	Experimental image and range scanner datasets fusion in SHM for displacement detection. Structural Control and Health Monitoring, 2017, 24, e1967.	4.0	31
11	Multivariate outlier mining and regression feedback for 3D measurement improvement in opto-mechanical system. Optical and Quantum Electronics, 2016, 48, 1.	3.3	25
12	Machine vision system errors for unmanned aerial vehicle navigation. , 2017, , .		25
13	Continuous 3D scanning mode using servomotors instead of stepping motors in dynamic laser triangulation. , 2015, , .		19
14	Machine vision system for UAV navigation. , 2016, , .		19
15	Comparison between Different Types of Sensors Used in the Real Operational Environment Based on Optical Scanning System. Sensors, 2018, 18, 1684.	3.8	18
16	Optical cyber-physical system embedded on an FPGA for 3D measurement in structural health monitoring tasks. Microprocessors and Microsystems, 2018, 56, 121-133.	2.8	14
17	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.	5.0	13
18	Electrolyte Magnetohydrodynamics Flow Sensing in an Open Annular Channelâ€™A Vision System for Validation of the Mathematical Model. Sensors, 2018, 18, 1683.	3.8	11

#	ARTICLE	IF	CITATIONS
19	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.	0.9	11
20	Accuracy improvement in 3D laser scanner based on dynamic triangulation for autonomous navigation system. , 2017, , .		11
21	Novel Sensing Approaches for Structural Deformation Monitoring and 3D Measurements. IEEE Sensors Journal, 2021, 21, 11318-11328.	4.7	11
22	Obtenci3n de Trayectorias Empleando el Marco Strapdown INS/KF: Propuesta Metodol3gica.. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 15, 391.	1.0	11
23	A methodological use of inertial navigation systems for strapdown navigation task. , 2017, , .		9
24	Implementing k-Nearest Neighbor Algorithm on Scanning Aperture for Accuracy Improvement. , 2018, , .		9
25	Surface Measurement Techniques in Machine Vision. Advances in Computational Intelligence and Robotics Book Series, 2019, , 79-104.	0.4	9
26	Mobile Robot Path Planning Using Continuous Laser Scanning. Advances in Computational Intelligence and Robotics Book Series, 2019, , 338-372.	0.4	9
27	k-Nearest Neighbor Classification for Pattern Recognition of a Reference Source Light for Machine Vision System. IEEE Sensors Journal, 2021, 21, 11514-11521.	4.7	9
28	Vehicle detection using an infrared light emitter and a photodiode as visualization system. , 2015, , .		8
29	UAV remote laser scanner improvement by continuous scanning using DC motors. , 2016, , .		8
30	Scanning for light detection and Energy Centre Localization Methods assesment in vision systems for SHM. , 2014, , .		7
31	Issues of exact laser ray positioning using DC motors for vision-based target detection. , 2016, , .		7
32	Machine Vision Sensors. Journal of Sensors, 2018, 2018, 1-2.	1.1	7
33	A Lean Convolutional Neural Network for Vehicle Classification. , 2020, , .		7
34	Implementaci3n digital de filtros FIR para la minimizaci3n del ruido 3ptico y optoelectr3nico de un sistema de barrido 3ptico. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2019, 16, 344.	1.0	7
35	Structural Health Monitoring based on Optical Scanning Systems and SVM. , 2014, , .		6
36	Machine vision supported by artificial intelligence. , 2014, , .		6

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37	Optoelectronic instrumentation enhancement using data mining feedback for a 3D measurement system. <i>Optical Review</i> , 2016, 23, 891-896.	2.0	6
38	Theoretical and experimental study of low conducting fluid MHD flow in an open annular channel. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 322-331.	4.8	6
39	Accuracy Improvement by Artificial Neural Networks in Technical Vision System. , 2019, , .		6
40	Geometric analysis of a laser scanner functioning based on dynamic triangulation. , 2020, , .		6
41	Rational approximations principle for frequency shifts measurement in frequency domain sensors. , 2015, , .		5
42	Optoelectronic scanning system upgrade by energy center localization methods. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2016, 52, 592-600.	0.6	5
43	Defining the Final Angular Position of DC Motor shaft using a Trapezoidal Trajectory Profile. , 2019, , .		5
44	Circular Scanning Resolution Improvement by its Velocity Close Loop Control. , 2019, , .		5
45	Obtaining Object Information from Stereo Vision System for Autonomous Vehicles. , 2021, , .		5
46	Some Model Properties to Control a Permanent Magnet Machine Using a Controlled Invariant Subspaceâˆ“.... <i>IFAC-PapersOnLine</i> , 2015, 48, 366-371.	0.9	4
47	Control theory and signal processing in machine vision for navigation. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142092647.	2.1	4
48	Methods to Reduce the Optical Noise in a Real-World Environment of an Optical Scanning System for Structural Health Monitoring. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2019, , 301-336.	0.4	4
49	Stereoscopic Vision Systems in Machine Vision, Models, and Applications. , 2020, , 241-265.		4
50	Methods for Ensuring the Accuracy of Radiometric and Optoelectronic Navigation Systems of Flying Robots in a Developed Infrastructure. , 2020, , 537-577.		4
51	Reconocimiento de patrones aplicando LDA y LR a seÃ±ales optoelectrÃ³nicas de sistemas de barrido Ã³ptico. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2020, 17, 401.	1.0	4
52	Photodiode and charge-coupled device fused sensors. , 2015, , .		3
53	Wireless Current Monitoring for Autonomous Robot Navigation. , 2019, , .		3
54	Guest Editorial Special Issue on Sensors in Machine Vision of Automated Systems. <i>IEEE Sensors Journal</i> , 2021, 21, 11242-11243.	4.7	3

#	ARTICLE	IF	CITATIONS
55	Accuracy improvement of vision system for mobile robot navigation by finding the energetic center of laser signal. , 2014, , .		2
56	Improve laser detection in CCD for integrated photogrammetry - Laser scanner. , 2014, , .		2
57	Online SHM Optical Scanning Data Exchange. , 2016, , .		2
58	Home and building automation through social networks. , 2017, , .		2
59	Reduction of Angular Position Error of a Machine Vision System Using the Digital Controller LM629. , 2018, , .		2
60	Sensors for structural health monitoring. , 2020, , 227-248.		2
61	Machine Vision Optical Scanners for Landslide Monitoring. Advances in Computational Intelligence and Robotics Book Series, 2017, , 206-235.	0.4	2
62	Data Exchange and Task of Navigation for Robotic Group. , 2020, , 389-430.		2
63	Bridge Load Classifier Based on Deep Learning for Structural Displacement Correlation. Programming and Computer Software, 2020, 46, 526-535.	0.9	2
64	Positioning Improvement for a Laser Scanning System using cSORPD control. , 2021, , .		2
65	Outlier mining of a vision sensing database for SVM regression improvement. , 2015, , .		1
66	Machine vision system to measuring the velocity field in a fluid by Particle Image Velocimetry: Special Case of Magnetohydrodynamics. , 2017, , .		1
67	Magnetohydrodynamic velocity profile measurement for microelectromechanical systems micro-robot design. International Journal of Advanced Robotic Systems, 2019, 16, 172988141987561.	2.1	1
68	Classification of Vehicle Images through Deep Neural Networks for Camera View Position Selection. , 2020, , .		1
69	Improvements of an Optical Scanning System for Indoor Localization Based on Defuzzification Methods. IEEE Sensors Journal, 2022, 22, 4808-4815.	4.7	1
70	Recognition System by Using Machine Vision Tools and Machine Learning Techniques for Mobile Robots. Advances in Computational Intelligence and Robotics Book Series, 2021, , 258-287.	0.4	1
71	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
72	Applying Optoelectronic Devices Fusion in Machine Vision. Advances in Computational Intelligence and Robotics Book Series, 2017, , 1-37.	0.4	1

#	ARTICLE	IF	CITATIONS
73	Applying Optoelectronic Devices Fusion in Machine Vision. , 2020, , 184-213.		1
74	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
75	Time Series Data Processing for Classifying Wandering Patterns in People With Dementia. IEEE Sensors Journal, 2022, 22, 10196-10206.	4.7	1
76	Virtual angle measurement through an FPGA data processing. , 2017, , .		0
77	An MHD Stirrer 2D Velocity Profile Measurement Validation Through a Machine Vision System. , 2019, , .		0
78	The Use of Factorization and Multimode Parametric Spectra in Estimating Frequency and Spectral Parameters of Signal. , 2020, , .		0
79	Transimpedance Amplifier for Laser Scanning System Range Extension. , 2020, , .		0
80	Wireless Adapter Module Development for Robot Communication in IoT Ecosystems. , 2020, , .		0
81	Vehicle Image Classifier for Bridge Displacement Correlation. Proceedings of the Institute for System Programming of RAS, 2021, 33, 137-148.	0.1	0
82	Advances in Laser Scanners. Advances in Computational Intelligence and Robotics Book Series, 2021, , 37-70.	0.4	0
83	Optoelectronic Devices Fusion in Machine Vision Applications. Advances in Computational Intelligence and Robotics Book Series, 2021, , 1-36.	0.4	0
84	The multi -criteria effectiveness evaluation of the robotic group based on 3D real-time vision system. , 2021, , .		0
85	Mean of Maximum Method for Optical Scanning System. , 2021, , .		0
86	Estimaci3n de la incertidumbre en un sistema de visi3n para la evaluaci3n experimental de un mezclador magneto-hidrodin3mico. Ingenier3a Investigaci3n Y Tecnolog3a, 2020, 21, 1-17.	0.1	0
87	Full-State Control of Rotary Pendulum Using LQR Controller. Advances in IT Standards and Standardization Research Series, 2022, , 75-117.	0.2	0