Alfredo Gardel

List of Publications by Year
in descending order

87 papers	1,056 citations	471509 17 h-index	526287 27 g-index
90 all docs	90 docs citations	90 times ranked	1082 citing authors

#	ARTICLE	IF	CITATIONS
1	Accuracy and Precision of Agents Orientation in an Indoor Positioning System Using Multiple Infrastructure Lighting Spotlights and a PSD Sensor. Sensors, 2022, 22, 2882.	3.8	5
2	Smart Video Surveillance System Based on Edge Computing. Sensors, 2021, 21, 2958.	3.8	27
3	Weak Calibration of a Visible Light Positioning System Based on a Position-Sensitive Detector: Positioning Error Assessment. Sensors, 2021, 21, 3924.	3.8	11
4	Dynamic Insulin Basal Needs Estimation and Parameters Adjustment in Type 1 Diabetes. Sensors, 2021, 21, 5226.	3.8	1
5	Evaluation of the accuracy and precision of orientation determination in an indoor positioning system using infrastructure illumination and PSD sensors. , 2021, , .		1
6	Accuracy and Precision Assessment of AoA-Based Indoor Positioning Systems Using Infrastructure Lighting and a Position-Sensitive Detector. Sensors, 2020, 20, 5359.	3.8	8
7	A nonrecursive GR algorithm to extract road networks in high-resolution images from remote sensing. Earth Science Informatics, 2020, 13, 1187-1199.	3.2	1
8	New Applications and Architectures Based on FPGA/SoC. Electronics (Switzerland), 2020, 9, 1789.	3.1	1
9	Cooperative Demand Response Framework for a Smart Community Targeting Renewables: Testbed Implementation and Performance Evaluation. Energies, 2020, 13, 2910.	3.1	6
10	Development of an Optical Signal-Based IPS from an MCU-SoC. Electronics (Switzerland), 2020, 9, 782.	3.1	4
11	Analysis of Multiple-Access Discrimination Techniques for the Development of a PSD-Based VLP System. Sensors, 2020, 20, 1717.	3.8	12
12	Performance Evaluation of a Collaborative IoT Framework for Energy-Efficient Communities. , 2020, , .		0
13	Towards Sustainable Energy-Efficient Communities Based on a Scheduling Algorithm. Sensors, 2019, 19, 3973.	3.8	13
14	A Wearable Closed-Loop Insulin Delivery System Based on Low-Power SoCs. Electronics (Switzerland), 2019, 8, 612.	3.1	5
15	Forensic analysis of Nucleus RTOS on MTK smartwatches. Digital Investigation, 2019, 29, 55-66.	3.2	10
16	Characterization of Multipath Effects in Indoor Positioning Systems by AoA and PoA Based on Optical Signals. Sensors, 2019, 19, 917.	3.8	21
17	Statistical Evaluation and Analysis of Road Extraction Methodologies Using a Unique Dataset from Remote Sensing. Remote Sensing, 2018, 10, 620.	4.0	9
18	Discriminant Context Information Analysis for Post-Ranking Person Re-Identification. IEEE Transactions on Image Processing, 2017, 26, 1650-1665.	9.8	59

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19	Analysis of the optimal sampling rate for state estimation in sensor networks with delays. ISA Transactions, 2017, 68, 293-301.	5.7	2
20	Forensic analysis of Telegram Messenger for Windows Phone. Digital Investigation, 2017, 22, 88-106.	3.2	17
21	Trusted and Secure Wireless Sensor Network Designs and Deployments. Sensors, 2017, 17, 1787.	3.8	3
22	Modeling Infrared Signal Reflections to Characterize Indoor Multipath Propagation. Sensors, 2017, 17, 847.	3.8	14
23	Event-Based Sensing and Control for Remote Robot Guidance: An Experimental Case. Sensors, 2017, 17, 2034.	3.8	15
24	Modeling the Effect of Optical Signal Multipath. Sensors, 2017, 17, 2038.	3.8	12
25	FPGA and SoC Devices Applied to New Trends in Image/Video and Signal Processing Fields. Electronics (Switzerland), 2017, 6, 25.	3.1	6
26	Indoor Positioning System Based on a PSD Detector, Precise Positioning of Agents in Motion Using AoA Techniques. Sensors, 2017, 17, 2124.	3.8	21
27	Analysis and Calibration of Sources of Electronic Error in PSD Sensor Response. Sensors, 2016, 16, 619.	3.8	27
28	Optimization of the Coverage and Accuracy of an Indoor Positioning System with a Variable Number of Sensors. Sensors, 2016, 16, 934.	3.8	28
29	Mathematical Model and Calibration Procedure of a PSD Sensor Used in Local Positioning Systems. Sensors, 2016, 16, 1484.	3.8	20
30	Wireless Camera Nodes on a Cyber-Physical System. , 2016, , .		1
31	Smart laser scanner for event-based state estimation applied to indoor positioning. , 2016, , .		3
32	Mobile robot guidance using adaptive event-based pose estimation and camera sensor. , 2016, , .		3
33	Modeling feature distances by orientation driven classifiers for person re-identification. Journal of Visual Communication and Image Representation, 2016, 38, 115-129.	2.8	27
34	On-Board Event-Based State Estimation for Trajectory Approaching and Tracking of a Vehicle. Sensors, 2015, 15, 14569-14590.	3.8	16
35	Cognitive Self-Scheduled Mechanism for Access Control in Noisy Vehicular Ad Hoc Networks. Mathematical Problems in Engineering, 2015, 2015, 1-12.	1.1	10
36	High Level Synthesis FPGA Implementation of the Jacobi Algorithm to Solve the Eigen Problem. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	11

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37	Computation reduction of smart sensors for EBSE using Mahalanobis sampling. , 2015, , .		2
38	Person Re-Identification Ranking Optimisation by Discriminant Context Information Analysis. , 2015, , .		61
39	Camera calibration parameters for oriented person re-identification. , 2015, , .		0
40	Person Orientation and Feature Distances Boost Re-identification. , 2014, , .		16
41	Multiple View Oriented Matching Algorithm for People Reidentification. IEEE Transactions on Industrial Informatics, 2014, 10, 1841-1851.	11.3	11
42	Directional People Counter Based on Head Tracking. IEEE Transactions on Industrial Electronics, 2013, 60, 3991-4000.	7.9	90
43	Tracking People Motion Based on Extended Condensation Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 606-618.	9.3	30
44	Power Measurement Methods for Energy Efficient Applications. Sensors, 2013, 13, 7786-7796.	3.8	12
45	MODELING RADIATED ELECTROMAGNETIC EMISSIONS OF ELECTRIC MOTORCYCLES IN TERMS OF DRIVING PROFILE USING MLP NEURAL NETWORKS. Progress in Electromagnetics Research, 2013, 135, 231-244.	4.4	9
46	Computational Burden Resulting from Image Recognition of High Resolution Radar Sensors. Sensors, 2013, 13, 5381-5402.	3.8	9
47	ON-ROAD MAGNETIC EMISSIONS PREDICTION OF ELECTRIC CARS IN TERMS OF DRIVING DYNAMICS USING NEURAL NETWORKS. Progress in Electromagnetics Research, 2013, 139, 671-687.	4.4	1
48	Differential Binary Encoding Method for Calibrating Image Sensors Based on IOFBs. Sensors, 2012, 12, 4133-4155.	3.8	4
49	Parametric Dense Stereovision Implementation on a System-on Chip (SoC). Sensors, 2012, 12, 1863-1884.	3.8	8
50	Sensorial Systems Applied to Intelligent Spaces. Sensors, 2012, 12, 10707-10712.	3.8	0
51	Improving the Calibration of Image Sensors Based on IOFBs, Using Differential Gray-Code Space Encoding. Sensors, 2012, 12, 9006-9023.	3.8	3
52	Implementation of Industrial Automation Laboratories for E-learning. International Journal of Electrical Engineering and Education, 2012, 49, 402-418.	0.8	6
53	GPU Acceleration on Embedded Devices. A Power Consumption Approach. , 2012, , .		4
54	Medium access control based on a Non Cooperative Cognitive Radio for platooning communications. , 2012, , .		1

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55	Efficient Smart CMOS Camera Based on FPGAs Oriented to Embedded Image Processing. Sensors, 2011, 11, 2282-2303.	3.8	19
56	A new approach to evaluating internal Xilinx FPGA resources. Journal of Systems Architecture, 2011, 57, 749-760.	4.3	8
57	Design and implementation of a portable electronic system for vehicle–driver–route activity measurement. Measurement: Journal of the International Measurement Confederation, 2011, 44, 326-337.	5.0	14
58	A Focusing Method in the Calibration Process of Image Sensors Based on IOFBs. Sensors, 2010, 10, 47-60.	3.8	3
59	An Intelligent Architecture Based on Field Programmable Gate Arrays Designed to Detect Moving Objects by Using Principal Component Analysis. Sensors, 2010, 10, 9232-9251.	3.8	23
60	Remote Automation Laboratory Using a Cluster of Virtual Machines. IEEE Transactions on Industrial Electronics, 2010, 57, 3276-3283.	7.9	31
61	Verification of FPGA internal resources. , 2009, , .		3
62	Sensor Calibration Based on Incoherent Optical Fiber Bundles (IOFB) Used For Remote Image Transmission. Sensors, 2009, 9, 8215-8229.	3.8	6
63	Location of Optical Fibers for the Calibration of Incoherent Optical Fiber Bundles for Image Transmission. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2996-3003.	4.7	8
64	Embedded Vision Modules for Tracking and Counting People. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3004-3011.	4.7	32
65	Gear predictor of manual transmission vehicles based on artificial neural network. WIT Transactions on Modelling and Simulation, 2009, , .	0.0	1
66	Electronic application to evaluate the driver's activity on the polluting emissions of road traffic. WIT Transactions on Ecology and the Environment, 2009, , .	0.0	1
67	Novel HW Architecture Based on FPGAs Oriented to Solve the Eigen Problem. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 1722-1725.	3.1	37
68	Infrared Outdoor Sensor for Simultaneous High Accurate Measurements of 3-D Points. Sensor Letters, 2008, 6, 159-167.	0.4	0
69	Parallel Implementation of Modified 2D Pattern Matching. , 2007, , .		5
70	Calibration of Incoherent Optical Fiber Bundles for Image Transmission. Fibers Detection Process. , 2007, , .		3
71	Different Proposals to Matrix Multiplication Based on FPGAS. , 2007, , .		11
72	Evaluation and selection of internal parameters of a CORDIC-unit for a specific application based on FPGAS. , 2007, , .		0

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73	Real Time Head Detection for Embedded Vision Modules. , 2007, , .		3
74	Implementation in Fpgas of Jacobi Method to Solve the Eigenvalue and Eigenvector Problem. , 2006, , .		30
75	Correction of Omnidirectional Camera Images using Reconfigurable Hardware. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4
76	Real-Time Image Distortion Correction using FPGA-based System. Industrial Electronics Society (IECON) Tj ETQq0 0.0 rgBT /Overlock 10	0.0	9
77	Sensor for Simultaneous High Accurate Measurements of Three-Dimensional Points. Sensor Letters, 2006, 4, 426-432.	0.4	6
78	INFLUENCE OF MECHANICAL ERRORS IN A ZOOM CAMERA. Image Analysis and Stereology, 2003, 22, 21.	0.9	3
79	Mobile Robot with Wide Capture Active Laser Sensor and Environment Definition. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 30, 227-248.	3.4	8
80	Distributed architecture for control and path planning of autonomous vehicles. Microprocessors and Microsystems, 2001, 25, 159-166.	2.8	10
81	Unsupervised and adaptive Gaussian skin-color model. Image and Vision Computing, 2000, 18, 987-1003.	4.5	64
82	Multifunctional and autonomous, high performance architecture: application to a wheelchair for disabled people that integrates different control and guidance strategies. Microprocessors and Microsystems, 1999, 23, 1-6.	2.8	8
83	Detection and tracking vehicles using a zoom camera over a pan-and-tilt unit. , 0, , .		2
84	Multiview calibration of an active vision head. , 0, , .		0
85	Camera auto-calibration with virtual patterns. , 0, , .		2
86	Lossless implementation in VHDL of an image wavelet transform. , 0, , .		0
87	Different proposals to the multiplication of 3Ã—3 vision mask in VHDL for FPGA's. , 0, , .		1