

Alfredo Gardel

List of Publications by Year in descending order

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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	Directional People Counter Based on Head Tracking. IEEE Transactions on Industrial Electronics, 2013, 60, 3991-4000.	7.9	90
2	Unsupervised and adaptive Gaussian skin-color model. Image and Vision Computing, 2000, 18, 987-1003.	4.5	64
3	Person Re-Identification Ranking Optimisation by Discriminant Context Information Analysis. , 2015, , .		61
4	Discriminant Context Information Analysis for Post-Ranking Person Re-Identification. IEEE Transactions on Image Processing, 2017, 26, 1650-1665.	9.8	59
5	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
6	Embedded Vision Modules for Tracking and Counting People. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3004-3011.	4.7	32
7	Remote Automation Laboratory Using a Cluster of Virtual Machines. IEEE Transactions on Industrial Electronics, 2010, 57, 3276-3283.	7.9	31
8	Implementation in Fpgas of Jacobi Method to Solve the Eigenvalue and Eigenvector Problem. , 2006, , .		30
9	Tracking People Motion Based on Extended Condensation Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 606-618.	9.3	30
10	Optimization of the Coverage and Accuracy of an Indoor Positioning System with a Variable Number of Sensors. Sensors, 2016, 16, 934.	3.8	28
11	Analysis and Calibration of Sources of Electronic Error in PSD Sensor Response. Sensors, 2016, 16, 619.	3.8	27
12	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
13	Smart Video Surveillance System Based on Edge Computing. Sensors, 2021, 21, 2958.	3.8	27
14	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
15	Indoor Positioning System Based on a PSD Detector, Precise Positioning of Agents in Motion Using AoA Techniques. Sensors, 2017, 17, 2124.	3.8	21
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	Mathematical Model and Calibration Procedure of a PSD Sensor Used in Local Positioning Systems. Sensors, 2016, 16, 1484.	3.8	20
18	Efficient Smart CMOS Camera Based on FPGAs Oriented to Embedded Image Processing. Sensors, 2011, 11, 2282-2303.	3.8	19

#	ARTICLE	IF	CITATIONS
19	Forensic analysis of Telegram Messenger for Windows Phone. Digital Investigation, 2017, 22, 88-106.	3.2	17
20	Person Orientation and Feature Distances Boost Re-identification. , 2014, , .		16
21	On-Board Event-Based State Estimation for Trajectory Approaching and Tracking of a Vehicle. Sensors, 2015, 15, 14569-14590.	3.8	16
22	Event-Based Sensing and Control for Remote Robot Guidance: An Experimental Case. Sensors, 2017, 17, 2034.	3.8	15
23	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
24	Modeling Infrared Signal Reflections to Characterize Indoor Multipath Propagation. Sensors, 2017, 17, 847.	3.8	14
25	Towards Sustainable Energy-Efficient Communities Based on a Scheduling Algorithm. Sensors, 2019, 19, 3973.	3.8	13
26	Power Measurement Methods for Energy Efficient Applications. Sensors, 2013, 13, 7786-7796.	3.8	12
27	Modeling the Effect of Optical Signal Multipath. Sensors, 2017, 17, 2038.	3.8	12
28	Analysis of Multiple-Access Discrimination Techniques for the Development of a PSD-Based VLP System. Sensors, 2020, 20, 1717.	3.8	12
29	Different Proposals to Matrix Multiplication Based on FPGAS. , 2007, , .		11
30	Multiple View Oriented Matching Algorithm for People Reidentification. IEEE Transactions on Industrial Informatics, 2014, 10, 1841-1851.	11.3	11
31	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
32	Weak Calibration of a Visible Light Positioning System Based on a Position-Sensitive Detector: Positioning Error Assessment. Sensors, 2021, 21, 3924.	3.8	11
33	Distributed architecture for control and path planning of autonomous vehicles. Microprocessors and Microsystems, 2001, 25, 159-166.	2.8	10
34	Cognitive Self-Scheduled Mechanism for Access Control in Noisy Vehicular Ad Hoc Networks. Mathematical Problems in Engineering, 2015, 2015, 1-12.	1.1	10
35	Forensic analysis of Nucleus RTOS on MTK smartwatches. Digital Investigation, 2019, 29, 55-66.	3.2	10
36	Real-Time Image Distortion Correction using FPGA-based System. Industrial Electronics Society (IECON) Tj ETQq0 0.0 rgBT /Oylock 10		0.0

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37	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
38	Computational Burden Resulting from Image Recognition of High Resolution Radar Sensors. Sensors, 2013, 13, 5381-5402.	3.8	9
39	Statistical Evaluation and Analysis of Road Extraction Methodologies Using a Unique Dataset from Remote Sensing. Remote Sensing, 2018, 10, 620.	4.0	9
40	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
41	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
42	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
43	A new approach to evaluating internal Xilinx FPGA resources. Journal of Systems Architecture, 2011, 57, 749-760.	4.3	8
44	Parametric Dense Stereovision Implementation on a System-on Chip (SoC). Sensors, 2012, 12, 1863-1884.	3.8	8
45	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
46	Sensor Calibration Based on Incoherent Optical Fiber Bundles (IOFB) Used For Remote Image Transmission. Sensors, 2009, 9, 8215-8229.	3.8	6
47	Implementation of Industrial Automation Laboratories for E-learning. International Journal of Electrical Engineering and Education, 2012, 49, 402-418.	0.8	6
48	FPGA and SoC Devices Applied to New Trends in Image/Video and Signal Processing Fields. Electronics (Switzerland), 2017, 6, 25.	3.1	6
49	Cooperative Demand Response Framework for a Smart Community Targeting Renewables: Testbed Implementation and Performance Evaluation. Energies, 2020, 13, 2910.	3.1	6
50	Sensor for Simultaneous High Accurate Measurements of Three-Dimensional Points. Sensor Letters, 2006, 4, 426-432.	0.4	6
51	Parallel Implementation of Modified 2D Pattern Matching. , 2007, , .		5
52	A Wearable Closed-Loop Insulin Delivery System Based on Low-Power SoCs. Electronics (Switzerland), 2019, 8, 612.	3.1	5
53	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
54	Correction of Omnidirectional Camera Images using Reconfigurable Hardware. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4

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55	Differential Binary Encoding Method for Calibrating Image Sensors Based on IOFBs. Sensors, 2012, 12, 4133-4155.	3.8	4
56	GPU Acceleration on Embedded Devices. A Power Consumption Approach. , 2012, , .		4
57	Development of an Optical Signal-Based IPS from an MCU-SoC. Electronics (Switzerland), 2020, 9, 782.	3.1	4
58	Calibration of Incoherent Optical Fiber Bundles for Image Transmission. Fibers Detection Process. , 2007, , .		3
59	Real Time Head Detection for Embedded Vision Modules. , 2007, , .		3
60	Verification of FPGA internal resources. , 2009, , .		3
61	A Focusing Method in the Calibration Process of Image Sensors Based on IOFBs. Sensors, 2010, 10, 47-60.	3.8	3
62	Improving the Calibration of Image Sensors Based on IOFBs, Using Differential Gray-Code Space Encoding. Sensors, 2012, 12, 9006-9023.	3.8	3
63	Smart laser scanner for event-based state estimation applied to indoor positioning. , 2016, , .		3
64	Mobile robot guidance using adaptive event-based pose estimation and camera sensor. , 2016, , .		3
65	Trusted and Secure Wireless Sensor Network Designs and Deployments. Sensors, 2017, 17, 1787.	3.8	3
66	INFLUENCE OF MECHANICAL ERRORS IN A ZOOM CAMERA. Image Analysis and Stereology, 2003, 22, 21.	0.9	3
67	Detection and tracking vehicles using a zoom camera over a pan-and-tilt unit. , 0, , .		2
68	Camera auto-calibration with virtual patterns. , 0, , .		2
69	Computation reduction of smart sensors for EBSE using Mahalanobis sampling. , 2015, , .		2
70	Analysis of the optimal sampling rate for state estimation in sensor networks with delays. ISA Transactions, 2017, 68, 293-301.	5.7	2
71	Different proposals to the multiplication of 3Å—3 vision mask in VHDL for FPGA's. , 0, , .		1
72	Medium access control based on a Non Cooperative Cognitive Radio for platooning communications. , 2012, , .		1

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73	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
74	Wireless Camera Nodes on a Cyber-Physical System. , 2016, , .		1
75	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
76	New Applications and Architectures Based on FPGA/SoC. Electronics (Switzerland), 2020, 9, 1789.	3.1	1
77	Dynamic Insulin Basal Needs Estimation and Parameters Adjustment in Type 1 Diabetes. Sensors, 2021, 21, 5226.	3.8	1
78	Gear predictor of manual transmission vehicles based on artificial neural network. WIT Transactions on Modelling and Simulation, 2009, , .	0.0	1
79	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
80	Evaluation of the accuracy and precision of orientation determination in an indoor positioning system using infrastructure illumination and PSD sensors. , 2021, , .		1
81	Multiview calibration of an active vision head. , 0, , .		0
82	Lossless implementation in VHDL of an image wavelet transform. , 0, , .		0
83	Evaluation and selection of internal parameters of a CORDIC-unit for a specific application based on FPGAS. , 2007, , .		0
84	Sensorial Systems Applied to Intelligent Spaces. Sensors, 2012, 12, 10707-10712.	3.8	0
85	Camera calibration parameters for oriented person re-identification. , 2015, , .		0
86	Infrared Outdoor Sensor for Simultaneous High Accurate Measurements of 3-D Points. Sensor Letters, 2008, 6, 159-167.	0.4	0
87	Performance Evaluation of a Collaborative IoT Framework for Energy-Efficient Communities. , 2020, , .		0