

Ignacio Bravo

List of Publications by Year in descending order

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69
papers

848
citations

471509

17
h-index

552781

26
g-index

72
all docs

72
docs citations

72
times ranked

890
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. <i>Sensors</i> , 2022, 22, 2882.	3.8	5
2	Smart Video Surveillance System Based on Edge Computing. <i>Sensors</i> , 2021, 21, 2958.	3.8	27
3	Weak Calibration of a Visible Light Positioning System Based on a Position-Sensitive Detector: Positioning Error Assessment. <i>Sensors</i> , 2021, 21, 3924.	3.8	11
4	Dynamic Insulin Basal Needs Estimation and Parameters Adjustment in Type 1 Diabetes. <i>Sensors</i> , 2021, 21, 5226.	3.8	1
5	Behavioural patterns in aggregated demand response developments for communities targeting renewables. <i>Sustainable Cities and Society</i> , 2021, 72, 103001.	10.4	17
6	Evaluation of the accuracy and precision of orientation determination in an indoor positioning system using infrastructure illumination and PSD sensors. , 2021, , .		1
7	Accuracy and Precision Assessment of AoA-Based Indoor Positioning Systems Using Infrastructure Lighting and a Position-Sensitive Detector. <i>Sensors</i> , 2020, 20, 5359.	3.8	8
8	A nonrecursive GR algorithm to extract road networks in high-resolution images from remote sensing. <i>Earth Science Informatics</i> , 2020, 13, 1187-1199.	3.2	1
9	New Applications and Architectures Based on FPGA/SoC. <i>Electronics (Switzerland)</i> , 2020, 9, 1789.	3.1	1
10	Cooperative Demand Response Framework for a Smart Community Targeting Renewables: Testbed Implementation and Performance Evaluation. <i>Energies</i> , 2020, 13, 2910.	3.1	6
11	Development of an Optical Signal-Based IPS from an MCU-SoC. <i>Electronics (Switzerland)</i> , 2020, 9, 782.	3.1	4
12	Analysis of Multiple-Access Discrimination Techniques for the Development of a PSD-Based VLP System. <i>Sensors</i> , 2020, 20, 1717.	3.8	12
13	Performance Evaluation of a Collaborative IoT Framework for Energy-Efficient Communities. , 2020, , .		0
14	Towards Sustainable Energy-Efficient Communities Based on a Scheduling Algorithm. <i>Sensors</i> , 2019, 19, 3973.	3.8	13
15	A Wearable Closed-Loop Insulin Delivery System Based on Low-Power SoCs. <i>Electronics (Switzerland)</i> , 2019, 8, 612.	3.1	5
16	Characterization of Multipath Effects in Indoor Positioning Systems by AoA and PoA Based on Optical Signals. <i>Sensors</i> , 2019, 19, 917.	3.8	21
17	Indoor Positioning System Based on PSD Sensor. , 2019, , 353-370.		4
18	Cooperative System and Scheduling Algorithm for Sustainable Energy-Efficient Communities. <i>Lecture Notes in Computer Science</i> , 2019, , 197-203.	1.3	0

#	ARTICLE	IF	CITATIONS
19	Statistical Evaluation and Analysis of Road Extraction Methodologies Using a Unique Dataset from Remote Sensing. Remote Sensing, 2018, 10, 620.	4.0	9
20	FPGA embedded multichannel analyzer. Applied Radiation and Isotopes, 2018, 141, 282-287.	1.5	13
21	Discriminant Context Information Analysis for Post-Ranking Person Re-Identification. IEEE Transactions on Image Processing, 2017, 26, 1650-1665.	9.8	59
22	Trusted and Secure Wireless Sensor Network Designs and Deployments. Sensors, 2017, 17, 1787.	3.8	3
23	Modeling Infrared Signal Reflections to Characterize Indoor Multipath Propagation. Sensors, 2017, 17, 847.	3.8	14
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	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
32	Non-cooperative identification of civil aircraft using a generalised mutual subspace method. IET Radar, Sonar and Navigation, 2016, 10, 186-191.	1.8	6
33	Sensor deployment for motion trajectory tracking with a genetic algorithm. , 2015, , .		2
34	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
35	Non-Cooperative Target Recognition by Means of Singular Value Decomposition Applied to Radar High Resolution Range Profiles. Sensors, 2015, 15, 422-439.	3.8	24
36	Non-Cooperative Target Identification based on Singular Value Decomposition. , 2015, , .		0

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37	Multiple View Oriented Matching Algorithm for People Reidentification. IEEE Transactions on Industrial Informatics, 2014, 10, 1841-1851.	11.3	11
38	An Evolvable Driver for a Non-Linear Damped Pendulum. Elektronika Ir Elektrotechnika, 2014, 20, .	0.8	0
39	Directional People Counter Based on Head Tracking. IEEE Transactions on Industrial Electronics, 2013, 60, 3991-4000.	7.9	90
40	Tracking People Motion Based on Extended Condensation Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 606-618.	9.3	30
41	Power Measurement Methods for Energy Efficient Applications. Sensors, 2013, 13, 7786-7796.	3.8	12
42	Dynamic Cognitive Self-Organized TDMA for Medium Access Control in Real-Time Vehicle to Vehicle Communications. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	3
43	Computational Burden Resulting from Image Recognition of High Resolution Radar Sensors. Sensors, 2013, 13, 5381-5402.	3.8	9
44	Differential Binary Encoding Method for Calibrating Image Sensors Based on IOFBs. Sensors, 2012, 12, 4133-4155.	3.8	4
45	Parametric Dense Stereovision Implementation on a System-on Chip (SoC). Sensors, 2012, 12, 1863-1884.	3.8	8
46	Sensorial Systems Applied to Intelligent Spaces. Sensors, 2012, 12, 10707-10712.	3.8	0
47	Improving the Calibration of Image Sensors Based on IOFBs, Using Differential Gray-Code Space Encoding. Sensors, 2012, 12, 9006-9023.	3.8	3
48	Implementation of Industrial Automation Laboratories for E-learning. International Journal of Electrical Engineering and Education, 2012, 49, 402-418.	0.8	6
49	Medium access control based on a Non Cooperative Cognitive Radio for platooning communications. , 2012, , .		1
50	Efficient Smart CMOS Camera Based on FPGAs Oriented to Embedded Image Processing. Sensors, 2011, 11, 2282-2303.	3.8	19
51	A new approach to evaluating internal Xilinx FPGA resources. Journal of Systems Architecture, 2011, 57, 749-760.	4.3	8
52	A Focusing Method in the Calibration Process of Image Sensors Based on IOFBs. Sensors, 2010, 10, 47-60.	3.8	3
53	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
54	Remote Automation Laboratory Using a Cluster of Virtual Machines. IEEE Transactions on Industrial Electronics, 2010, 57, 3276-3283.	7.9	31

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55	Verification of FPGA internal resources. , 2009, , .		3
56	Embedded Vision Modules for Tracking and Counting People. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3004-3011.	4.7	32
57	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
58	A Bayesian Solution to Robustly Track Multiple Objects from Visual Data. Studies in Computational Intelligence, 2008, , 531-547.	0.9	0
59	Infrared Outdoor Sensor for Simultaneous High Accurate Measurements of 3-D Points. Sensor Letters, 2008, 6, 159-167.	0.4	0
60	Parallel Implementation of Modified 2D Pattern Matching. , 2007, , .		5
61	Different Proposals to Matrix Multiplication Based on FPGAS. , 2007, , .		11
62	Evaluation and selection of internal parameters of a CORDIC-unit for a specific application based on FPGAS. , 2007, , .		0
63	Real Time Head Detection for Embedded Vision Modules. , 2007, , .		3
64	Implementation in Fpgas of Jacobi Method to Solve the Eigenvalue and Eigenvector Problem. , 2006, , .		30
65	Correction of Omnidirectional Camera Images using Reconfigurable Hardware. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4
66	Real-Time Image Distortion Correction using FPGA-based System. Industrial Electronics Society (IECON) Tj ETQq0 0.0 rgBT /Overlock 10	0.0	9
67	Practical Laboratory Project in Telemedicine: Supervision of Electrocardiograms by Mobile Telephony. IEEE Transactions on Education, 2005, 48, 329-336.	2.4	7
68	Telemetry and control system with GSM communications. Microprocessors and Microsystems, 2003, 27, 1-8.	2.8	23
69	Lossless implementation in VHDL of an image wavelet transform. , 0, , .		0