

# 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	Directional People Counter Based on Head Tracking. IEEE Transactions on Industrial Electronics, 2013, 60, 3991-4000.	7.9	90
2	Discriminant Context Information Analysis for Post-Ranking Person Re-Identification. IEEE Transactions on Image Processing, 2017, 26, 1650-1665.	9.8	59
3	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
4	Embedded Vision Modules for Tracking and Counting People. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3004-3011.	4.7	32
5	Remote Automation Laboratory Using a Cluster of Virtual Machines. IEEE Transactions on Industrial Electronics, 2010, 57, 3276-3283.	7.9	31
6	Implementation in Fpgas of Jacobi Method to Solve the Eigenvalue and Eigenvector Problem. , 2006, , .		30
7	Tracking People Motion Based on Extended Condensation Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 606-618.	9.3	30
8	Optimization of the Coverage and Accuracy of an Indoor Positioning System with a Variable Number of Sensors. Sensors, 2016, 16, 934.	3.8	28
9	Analysis and Calibration of Sources of Electronic Error in PSD Sensor Response. Sensors, 2016, 16, 619.	3.8	27
10	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
11	Smart Video Surveillance System Based on Edge Computing. Sensors, 2021, 21, 2958.	3.8	27
12	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
13	Telemetry and control system with GSM communications. Microprocessors and Microsystems, 2003, 27, 1-8.	2.8	23
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	Behavioural patterns in aggregated demand response developments for communities targeting renewables. <i>Sustainable Cities and Society</i> , 2021, 72, 103001.	10.4	17
20	Modeling Infrared Signal Reflections to Characterize Indoor Multipath Propagation. <i>Sensors</i> , 2017, 17, 847.	3.8	14
21	FPGA embedded multichannel analyzer. <i>Applied Radiation and Isotopes</i> , 2018, 141, 282-287.	1.5	13
22	Towards Sustainable Energy-Efficient Communities Based on a Scheduling Algorithm. <i>Sensors</i> , 2019, 19, 3973.	3.8	13
23	Power Measurement Methods for Energy Efficient Applications. <i>Sensors</i> , 2013, 13, 7786-7796.	3.8	12
24	Modeling the Effect of Optical Signal Multipath. <i>Sensors</i> , 2017, 17, 2038.	3.8	12
25	Analysis of Multiple-Access Discrimination Techniques for the Development of a PSD-Based VLP System. <i>Sensors</i> , 2020, 20, 1717.	3.8	12
26	Different Proposals to Matrix Multiplication Based on FPGAS. , 2007, , .		11
27	Multiple View Oriented Matching Algorithm for People Reidentification. <i>IEEE Transactions on Industrial Informatics</i> , 2014, 10, 1841-1851.	11.3	11
28	High Level Synthesis FPGA Implementation of the Jacobi Algorithm to Solve the Eigen Problem. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	1.1	11
29	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
30	Real-Time Image Distortion Correction using FPGA-based System. <i>Industrial Electronics Society (IECON) Tj ETQqO 0.0 rgBT /Oerlock 10</i>	0.0	9
31	Computational Burden Resulting from Image Recognition of High Resolution Radar Sensors. <i>Sensors</i> , 2013, 13, 5381-5402.	3.8	9
32	Statistical Evaluation and Analysis of Road Extraction Methodologies Using a Unique Dataset from Remote Sensing. <i>Remote Sensing</i> , 2018, 10, 620.	4.0	9
33	A new approach to evaluating internal Xilinx FPGA resources. <i>Journal of Systems Architecture</i> , 2011, 57, 749-760.	4.3	8
34	Parametric Dense Stereovision Implementation on a System-on Chip (SoC). <i>Sensors</i> , 2012, 12, 1863-1884.	3.8	8
35	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
36	Practical Laboratory Project in Telemedicine: Supervision of Electrocardiograms by Mobile Telephony. <i>IEEE Transactions on Education</i> , 2005, 48, 329-336.	2.4	7

#	ARTICLE	IF	CITATIONS
37	Implementation of Industrial Automation Laboratories for E-learning. International Journal of Electrical Engineering and Education, 2012, 49, 402-418.	0.8	6
38	Non-cooperative identification of civil aircraft using a generalised mutual subspace method. IET Radar, Sonar and Navigation, 2016, 10, 186-191.	1.8	6
39	FPGA and SoC Devices Applied to New Trends in Image/Video and Signal Processing Fields. Electronics (Switzerland), 2017, 6, 25.	3.1	6
40	Cooperative Demand Response Framework for a Smart Community Targeting Renewables: Testbed Implementation and Performance Evaluation. Energies, 2020, 13, 2910.	3.1	6
41	Parallel Implementation of Modified 2D Pattern Matching. , 2007, , .		5
42	A Wearable Closed-Loop Insulin Delivery System Based on Low-Power SoCs. Electronics (Switzerland), 2019, 8, 612.	3.1	5
43	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
44	Correction of Omnidirectional Camera Images using Reconfigurable Hardware. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	4
45	Differential Binary Encoding Method for Calibrating Image Sensors Based on IOFBs. Sensors, 2012, 12, 4133-4155.	3.8	4
46	Indoor Positioning System Based on PSD Sensor. , 2019, , 353-370.		4
47	Development of an Optical Signal-Based IPS from an MCU-SoC. Electronics (Switzerland), 2020, 9, 782.	3.1	4
48	Real Time Head Detection for Embedded Vision Modules. , 2007, , .		3
49	Verification of FPGA internal resources. , 2009, , .		3
50	A Focusing Method in the Calibration Process of Image Sensors Based on IOFBs. Sensors, 2010, 10, 47-60.	3.8	3
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	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
53	Trusted and Secure Wireless Sensor Network Designs and Deployments. Sensors, 2017, 17, 1787.	3.8	3
54	Sensor deployment for motion trajectory tracking with a genetic algorithm. , 2015, , .		2

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55	Medium access control based on a Non Cooperative Cognitive Radio for platooning communications. , 2012, , .		1
56	Wireless Camera Nodes on a Cyber-Physical System. , 2016, , .		1
57	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
58	New Applications and Architectures Based on FPGA/SoC. Electronics (Switzerland), 2020, 9, 1789.	3.1	1
59	Dynamic Insulin Basal Needs Estimation and Parameters Adjustment in Type 1 Diabetes. Sensors, 2021, 21, 5226.	3.8	1
60	Evaluation of the accuracy and precision of orientation determination in an indoor positioning system using infrastructure illumination and PSD sensors. , 2021, , .		1
61	Lossless implementation in VHDL of an image wavelet transform. , 0, , .		0
62	Evaluation and selection of internal parameters of a CORDIC-unit for a specific application based on FPGAS. , 2007, , .		0
63	Sensorial Systems Applied to Intelligent Spaces. Sensors, 2012, 12, 10707-10712.	3.8	0
64	Non-Cooperative Target Identification based on Singular Value Decomposition. , 2015, , .		0
65	A Bayesian Solution to Robustly Track Multiple Objects from Visual Data. Studies in Computational Intelligence, 2008, , 531-547.	0.9	0
66	Infrared Outdoor Sensor for Simultaneous High Accurate Measurements of 3-D Points. Sensor Letters, 2008, 6, 159-167.	0.4	0
67	An Evolvable Driver for a Non-Linear Damped Pendulum. Elektronika Ir Elektrotechnika, 2014, 20, .	0.8	0
68	Cooperative System and Scheduling Algorithm for Sustainable Energy-Efficient Communities. Lecture Notes in Computer Science, 2019, , 197-203.	1.3	0
69	Performance Evaluation of a Collaborative IoT Framework for Energy-Efficient Communities. , 2020, , .		0