

Guillermo de Arcas

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

676
citations

687363
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52
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docs citations

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times ranked

913
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Estimation of End-Milling Parameters from Acoustic Emission Signals Using a Microphone Array Assisted by AI Modelling. <i>Sensors</i> , 2022, 22, 3807.	3.8	2
2	Automatic Resting Tremor Assessment in Parkinson's Disease Using Smartwatches and Multitask Convolutional Neural Networks. <i>Sensors</i> , 2021, 21, 291.	3.8	43
3	Sleep-Wake Cycle and EEG-Based Biomarkers during Late Neonate to Adult Transition. <i>Brain Sciences</i> , 2021, 11, 298.	2.3	1
4	Analysis and initial design of bidirectional acoustic tag modulation schemes and communication protocol. , 2021, , .		2
5	Estimation of the noise emissions generated by a single vehicle while driving. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 95, 102865.	6.8	9
6	Non-Invasive Estimation of Machining Parameters during End-Milling Operations Based on Acoustic Emission. <i>Sensors</i> , 2020, 20, 5326.	3.8	4
7	Social Media and Open Data to Quantify the Effects of Noise on Health. <i>Frontiers in Sustainable Cities</i> , 2020, 2, .	2.4	10
8	A Taxonomy Proposal for the Assessment of the Changes in Soundscape Resulting from the COVID-19 Lockdown. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4205.	2.6	46
9	A Digital Signal Processor Based Acoustic Sensor for Outdoor Noise Monitoring in Smart Cities. <i>Sensors</i> , 2020, 20, 605.	3.8	24
10	Deep Learning Approaches for Detecting Freezing of Gait in Parkinson's Disease Patients through On-Body Acceleration Sensors. <i>Sensors</i> , 2020, 20, 1895.	3.8	62
11	Changes in noise levels in the city of Madrid during COVID-19 lockdown in 2020. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 1748-1755.	1.1	79
12	Automatic Identification of Hand-Held Vibrating Tools Through Commercial Smartwatches and Machine Learning. <i>Studies in Systems, Decision and Control</i> , 2020, , 481-489.	1.0	0
13	Sleep-Wake Cycle and EEG-Based Biomarkers during Neonate to Adult Transition in C57BL/6 Mice. <i>Proceedings (mdpi)</i> , 2020, 71, .	0.2	1
14	Neuroacoustical Stimulation of Parkinson's Disease Patients: A Case Study. <i>Lecture Notes in Computer Science</i> , 2019, , 329-339.	1.3	1
15	Beyond sound level monitoring: Exploitation of social media to gather citizens subjective response to noise. <i>Science of the Total Environment</i> , 2019, 658, 69-79.	8.0	15
16	Assessment of Residents' Exposure to Leisure Noise in Mlaga (Spain). <i>Environments - MDPI</i> , 2018, 5, 134.	3.3	9
17	Occupational Risk Prevention through Smartwatches: Precision and Uncertainty Effects of the Built-In Accelerometer. <i>Sensors</i> , 2018, 18, 3805.	3.8	16
18	Communicating airport noise emission data to the general public. <i>Science of the Total Environment</i> , 2017, 586, 836-848.	8.0	22

#	ARTICLE	IF	CITATIONS
19	Implementing a Neutron-Diagnostic advanced DAQ system use case on a PXle platform through a 3D remote laboratory. Fusion Engineering and Design, 2017, 123, 882-886.	1.9	1
20	Image acquisition and GPU processing application using IRIO technology and FlexRIO devices. , 2016, , .		1
21	3D virtual world remote laboratory to assist in designing advanced user defined DAQ systems based on FlexRIO and EPICS. Fusion Engineering and Design, 2016, 112, 1059-1062.	1.9	6
22	A high throughput data acquisition and processing model for applications based on GPUs. Fusion Engineering and Design, 2015, 96-97, 895-898.	1.9	8
23	On-board wet road surface identification using tyre/road noise and Support Vector Machines. Applied Acoustics, 2014, 76, 407-415.	3.3	96
24	Implementation of the Disruption Predictor APODIS in JET's Real-Time Network Using the MARTE Framework. IEEE Transactions on Nuclear Science, 2014, 61, 741-744.	2.0	21
25	Soft real-time EPICS extensions for fast control: A case study applied to a TCV equilibrium algorithm. Fusion Engineering and Design, 2014, 89, 638-643.	1.9	3
26	Interface electronic system for measuring air acidity with optical sensors. Sensors and Actuators A: Physical, 2013, 194, 67-74.	4.1	13
27	A new 3D finite element model of the IEC 60318-1 artificial ear: II. Experimental and numerical validation. Metrologia, 2012, 49, 785-802.	1.2	1
28	Implementation of the disruption predictor APODIS in JET real time network using the MARTE framework. , 2012, , .		7
29	NetCDF based data archiving system applied to ITER Fast Plant System Control prototype. Fusion Engineering and Design, 2012, 87, 2223-2228.	1.9	3
30	A GPU-based real time high performance computing service in a fast plant system controller prototype for ITER. Fusion Engineering and Design, 2012, 87, 2152-2155.	1.9	3
31	ITER Fast Plant System Controller prototype based on PXle platform. Fusion Engineering and Design, 2012, 87, 2030-2035.	1.9	23
32	Exploiting Graphic Processing Units Parallelism to Improve Intelligent Data Acquisition System Performance in JET's Correlation Reflectometer. IEEE Transactions on Nuclear Science, 2011, 58, 1714-1718.	2.0	2
33	Real Time Plasma Disruptions Detection in JET Implemented With the ITMS Platform Using FPCA Based IDAQ. IEEE Transactions on Nuclear Science, 2011, 58, 1576-1581.	2.0	12
34	Overview of JET results. Nuclear Fusion, 2011, 51, 094008.	3.5	33
35	Real-time remote diagnostic monitoring test-bed in JET. Fusion Engineering and Design, 2010, 85, 598-602.	1.9	1
36	A versatile trigger and synchronization module with IEEE1588 capabilities and EPICS support. Fusion Engineering and Design, 2010, 85, 340-344.	1.9	1

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37	Service-oriented architecture of adaptive, intelligent data acquisition and processing systems for long-pulse fusion experiments. Fusion Engineering and Design, 2010, 85, 274-279.	1.9	5
38	Event recognition using signal spectrograms in long pulse experiments. Review of Scientific Instruments, 2010, 81, 10E126.	1.3	1
39	Exploiting graphic processing units parallelism to improve intelligent data acquisition system performance in JET's correlation reflectometer. , 2010, , .		0
40	New developments at JET in diagnostics, real-time control, data acquisition and information retrieval with potential application to ITER. Fusion Engineering and Design, 2009, 84, 2136-2144.	1.9	10
41	Configuration and supervision of advanced distributed data acquisition and processing systems for long pulse experiments using JINI technology. Fusion Engineering and Design, 2009, 84, 832-836.	1.9	4
42	Data reduction in the ITMS system through a data acquisition model with self-adaptive sampling rate. Fusion Engineering and Design, 2008, 83, 358-362.	1.9	10
43	Design of an Intelligent Front-End Signal Conditioning Circuit for IR Sensors. IEEE Transactions on Nuclear Science, 2008, 55, 14-20.	2.0	8
44	A new 3D finite element model of the IEC 60318-1 artificial ear. Metrologia, 2008, 45, 448-458.	1.2	3
45	Implementation of local area network extension for instrumentation standard trigger capabilities in advanced data acquisition platforms. Review of Scientific Instruments, 2008, 79, 10F335.	1.3	5
46	Self-adaptive sampling rate data acquisition in JET's correlation reflectometer. Review of Scientific Instruments, 2008, 79, 10F336.	1.3	6
47	Transference Impedance Estimation of IEC60318 Couplers by Image Processing and Finite Element Modelling. , 2008, , .		0
48	Practical considerations in the verification of personal sound exposure meters. Metrologia, 2007, 44, 177-181.	1.2	1
49	Design of an Intelligent Front-end Signal Conditioning Circuit for IR Sensors. , 2007, , .		3
50	A VIRTUAL INSTRUMENT TO EVALUATE THE UNCERTAINTY OF MEASUREMENT IN THE CALIBRATION OF SOUND CALIBRATORS. , 2006, , .		1
51	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38