Juan Pedro Dominguez-Morales

List of Publications by Year
in descending order

40 papers	563 citations	932766 10 h-index	676716 22 g-index
47 all docs	47 docs citations	47 times ranked	737 citing authors

#	Article	IF	Citations
1	Deep Neural Networks for the Recognition and Classification of Heart Murmurs Using Neuromorphic Auditory Sensors. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 24-34.	2.7	115
2	COVID-XNet: A Custom Deep Learning System to Diagnose and Locate COVID-19 in Chest X-ray Images. Applied Sciences (Switzerland), 2020, 10, 5683.	1.3	64
3	Wireless Sensor Network for Wildlife Tracking and Behavior Classification of Animals in DoÃ±ana. IEEE Communications Letters, 2016, 20, 2534-2537.	2.5	51
4	PROMETEO: A CNN-Based Computer-Aided Diagnosis System for WSI Prostate Cancer Detection. IEEE Access, 2020, 8, 128613-128628.	2.6	49
5	Embedded neural network for real-time animal behavior classification. Neurocomputing, 2018, 272, 17-26.	3.5	40
6	Deep Spiking Neural Network model for time-variant signals classification: a real-time speech recognition approach. , 2018, , .		35
7	Neuropod: A real-time neuromorphic spiking CPG applied to robotics. Neurocomputing, 2020, 381, 10-19.	3.5	35
8	Wildlife Monitoring on the Edge: A Performance Evaluation of Embedded Neural Networks on Microcontrollers for Animal Behavior Classification. Sensors, 2021, 21, 2975.	2.1	16
9	Multilayer Spiking Neural Network for Audio Samples Classification Using SpiNNaker. Lecture Notes in Computer Science, 2016, , 45-53.	1.0	16
10	Neuromorphic Sensory Integration for Combining Sound Source Localization and Collision Avoidance. , 2019, , .		14
11	Performance Evaluation of Deep Learning-Based Prostate Cancer Screening Methods in Histopathological Images: Measuring the Impact of the Model's Complexity on Its Processing Speed. Sensors, 2021, 21, 1122.	2.1	13
12	Stereo Matching in Address-Event-Representation (AER) Bio-Inspired Binocular Systems in a Field-Programmable Gate Array (FPGA). Electronics (Switzerland), 2019, 8, 410.	1.8	11
13	NAVIS: Neuromorphic Auditory VISualizer Tool. Neurocomputing, 2017, 237, 418-422.	3.5	10
14	An Automated Fall Detection System Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2019, , 36-41.	1.0	9
15	Wide & Deep neural network model for patch aggregation in CNN-based prostate cancer detection systems. Computers in Biology and Medicine, 2021, 136, 104743.	3.9	9
16	A SpiNNaker Application: Design, Implementation and Validation of SCPGs. Lecture Notes in Computer Science, 2017, , 548-559.	1.0	8
17	System based on inertial sensors for behavioral monitoring of wildlife. , 2015, , .		6
18	Live Demonstration: Neuromorphic Sensory Integration for Combining Sound Source Localization and Collision Avoidance. , 2020, , .		5

#	Article	IF	Citations
19	An Event-Based Digital Time Difference Encoder Model Implementation for Neuromorphic Systems. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1959-1973.	7.2	5
20	Sound Recognition System Using Spiking and MLP Neural Networks. Lecture Notes in Computer Science, 2016, , 363-371.	1.0	4
21	A 20Mevps/32Mev event-based USB framework for neuromorphic systems debugging. , 2016, , .		4
22	Efficient Memory Organization for DNN Hardware Accelerator Implementation on PSoC. Electronics (Switzerland), 2021, 10, 94.	1.8	4
23	Real-time detection of bursts in neuronal cultures using a neuromorphic auditory sensor and spiking neural networks. Neurocomputing, 2021, 449, 422-434.	3.5	4
24	A Low-power, Reachable, Wearable and Intelligent IoT Device for Animal Activity Monitoring. , 2019, , .		4
25	Live Demonstration: Neuromorphic Robotics, from Audio to Locomotion Through Spiking CPG on SpiNNaker. , 2019, , .		3
26	Neuromorphic adaptive spiking CPG towards bio-inspired locomotion. Neurocomputing, 2022, 502, 57-70.	3.5	3
27	Semi-wildlife gait patterns classification using statistical methods and Artificial Neural Networks. , 2017, , .		2
28	Event-based Row-by-Row Multi-convolution engine for Dynamic-Vision Feature Extraction on FPGA. , 2018, , .		2
29	pyNAVIS: An open-source cross-platform software for spike-based neuromorphic audio information processing. Neurocomputing, 2021, 449, 172-175.	3.5	2
30	Glioma Diagnosis Aid through CNNs and Fuzzy-C Means for MRI. , 2019, , .		2
31	Live demonstration â€" Multilayer spiking neural network for audio samples classification using SpiNNaker. , 2017, , .		1
32	Live Demonstration: Neuromorphic Row-by-Row Multi-Convolution FPGA Processor-SpiNNaker Architecture for Dynamic-Vision Feature Extraction. , 2019, , .		1
33	Neuronal Specialization for Fine-Grained Distance Estimation Using a Real-Time Bio-Inspired Stereo Vision System. Electronics (Switzerland), 2019, 8, 1502.	1.8	1
34	A neuromorphic approach of the sound source localization task in real-time embedded systems. , 2019, , .		1
35	Sampling Frequency Evaluation on Recurrent Neural Networks Architectures for IoT Real-time Fall Detection Devices. , 2019, , .		1
36	Real-time detection of uncalibrated sensors using neural networks. Neural Computing and Applications, 0, , 1.	3.2	1

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37	Implementing a Distance Estimator for a Wildlife Tracking System Based on 802.15.4. Electronics (Switzerland), 2019, 8, 1438.	1.8	0
38	Accuracy Improvement of Neural Networks Through Self-Organizing-Maps over Training Datasets. Lecture Notes in Computer Science, 2017, , 520-531.	1.0	0
39	A Protocol Generator Tool for Automatic In-Vitro HPV Robotic Analysis. Advances in Intelligent Systems and Computing, 2018, , 580-591.	0.5	0
40	Multi-dataset Training for Medical Image Segmentation as a Service. , 2019, , .		0