

# Manuel DomÃ- nguez Morales

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

975  
citations

567144

15  
h-index

477173

29  
g-index

53  
all docs

53  
docs citations

53  
times ranked

983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Worker's physical fatigue classification using neural networks. Expert Systems With Applications, 2022, 198, 116784.	4.4	16
2	On the feature extraction process in machine learning. An experimental study about guided versus non-guided process in falling detection systems. Engineering Applications of Artificial Intelligence, 2022, 114, 105170.	4.3	4
3	Efficient Memory Organization for DNN Hardware Accelerator Implementation on PSoC. Electronics (Switzerland), 2021, 10, 94.	1.8	4
4	Does Two-Class Training Extract Real Features? A COVID-19 Case Study. Applied Sciences (Switzerland), 2021, 11, 1424.	1.3	6
5	Ankle Falls, Falling Risks and Daily-Life Activities Dataset with an Ankle-Placed Accelerometer and Training Using Recurrent Neural Networks. Sensors, 2021, 21, 1889.	2.1	16
6	A Deep-Learning Based Posture Detection System for Preventing Telework-Related Musculoskeletal Disorders. Sensors, 2021, 21, 5236.	2.1	15
7	IoT garment for remote elderly care network. Biomedical Signal Processing and Control, 2021, 69, 102848.	3.5	10
8	pyNAVIS: An open-source cross-platform software for spike-based neuromorphic audio information processing. Neurocomputing, 2021, 449, 172-175.	3.5	2
9	A study on the use of Edge TPUs for eye fundus image segmentation. Engineering Applications of Artificial Intelligence, 2021, 104, 104384.	4.3	23
10	Dual Machine-Learning System to Aid Glaucoma Diagnosis Using Disc and Cup Feature Extraction. IEEE Access, 2020, 8, 127519-127529.	2.6	52
11	Affective State Assistant for Helping Users with Cognition Disabilities Using Neural Networks. Electronics (Switzerland), 2020, 9, 1843.	1.8	9
12	Deep Learning System for COVID-19 Diagnosis Aid Using X-ray Pulmonary Images. Applied Sciences (Switzerland), 2020, 10, 4640.	1.3	125
13	Low-Power Embedded System for Gait Classification Using Neural Networks. Journal of Low Power Electronics and Applications, 2020, 10, 14.	1.3	13
14	Augmented and Virtual Reality Evolution and Future Tendency. Applied Sciences (Switzerland), 2020, 10, 322.	1.3	81
15	Smart Footwear Insole for Recognition of Foot Pronation and Supination Using Neural Networks. Applied Sciences (Switzerland), 2019, 9, 3970.	1.3	25
16	Bio-Inspired Stereo Vision Calibration for Dynamic Vision Sensors. IEEE Access, 2019, 7, 138415-138425.	2.6	20
17	Designing a Wearable Device for Step Analyzing. , 2019, , .		7
18	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

#	ARTICLE	IF	CITATIONS
19	Neuronal Specialization for Fine-Grained Distance Estimation Using a Real-Time Bio-Inspired Stereo Vision System. Electronics (Switzerland), 2019, 8, 1502.	1.8	1
20	Wearable Fall Detector Using Recurrent Neural Networks. Sensors, 2019, 19, 4885.	2.1	57
21	Implementing a Distance Estimator for a Wildlife Tracking System Based on 802.15.4. Electronics (Switzerland), 2019, 8, 1438.	1.8	0
22	Sampling Frequency Evaluation on Recurrent Neural Networks Architectures for IoT Real-time Fall Detection Devices. , 2019, , .		1
23	Embedded neural network for real-time animal behavior classification. Neurocomputing, 2018, 272, 17-26.	3.5	40
24	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
25	Performance evaluation over HW/SW co-design SoC memory transfers for a CNN accelerator. , 2018, , .		7
26	Event-based Row-by-Row Multi-convolution engine for Dynamic-Vision Feature Extraction on FPGA. , 2018, , .		2
27	NAVIS: Neuromorphic Auditory VISualizer Tool. Neurocomputing, 2017, 237, 418-422.	3.5	10
28	Semi-wildlife gait patterns classification using statistical methods and Artificial Neural Networks. , 2017, , .		2
29	A Binaural Neuromorphic Auditory Sensor for FPGA: A Spike Signal Processing Approach. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 804-818.	7.2	63
30	Live demonstration " Multilayer spiking neural network for audio samples classification using SpiNNaker. , 2017, , .		1
31	Accuracy Improvement of Neural Networks Through Self-Organizing-Maps over Training Datasets. Lecture Notes in Computer Science, 2017, , 520-531.	1.0	0
32	A Microcontroller Based System for Controlling Patient Respiratory Guidelines. Lecture Notes in Computer Science, 2017, , 631-641.	1.0	0
33	Wireless Sensor Network for Wildlife Tracking and Behavior Classification of Animals in Doñana. IEEE Communications Letters, 2016, 20, 2534-2537.	2.5	51
34	Sound Recognition System Using Spiking and MLP Neural Networks. Lecture Notes in Computer Science, 2016, , 363-371.	1.0	4
35	ED-Scorbot: A robotic test-bed framework for FPGA-based neuromorphic systems. , 2016, , .		3
36	Multilayer Spiking Neural Network for Audio Samples Classification Using SpiNNaker. Lecture Notes in Computer Science, 2016, , 45-53.	1.0	16

#	ARTICLE	IF	CITATIONS
37	Musical notes classification with neuromorphic auditory system using FPGA and a convolutional spiking network. , 2015, , .		6
38	Real-time motor rotation frequency detection with event-based visual and spike-based auditory AER sensory integration for FPGA. , 2015, , .		3
39	Live demonstration: Real-time motor rotation frequency detection by spike-based visual and auditory AER sensory integration for FPGA. , 2015, , .		4
40	On the AER Stereo-Vision Processing: A Spike Approach to Epipolar Matching. Lecture Notes in Computer Science, 2013, , 267-275.	1.0	2
41	SVITE: A Spike-Based VITE Neuro-Inspired Robot Controller. Lecture Notes in Computer Science, 2013, , 276-283.	1.0	1
42	A Neuro-Inspired Spike-Based PID Motor Controller for Multi-Motor Robots with Low Cost FPGAs. Sensors, 2012, 12, 3831-3856.	2.1	70
43	Live demonstration: On the distance estimation of moving targets with a Stereo-Vision AER system. , 2012, , .		5
44	Analysis of source code metrics from ns-2 and ns-3 network simulators. Simulation Modelling Practice and Theory, 2011, 19, 1330-1346.	2.2	20
45	Simulating Building Blocks for Spikes Signals Processing. Lecture Notes in Computer Science, 2011, , 548-556.	1.0	4
46	On the Designing of Spikes Band-Pass Filters for FPGA. Lecture Notes in Computer Science, 2011, , 389-396.	1.0	6
47	An Approach to Distance Estimation with Stereo Vision Using Address-Event-Representation. Lecture Notes in Computer Science, 2011, , 190-198.	1.0	8
48	AER Spiking Neuron Computation on GPUs: The Frame-to-AER Generation. Lecture Notes in Computer Science, 2011, , 199-208.	1.0	0
49	Architecture, design and source code comparison of ns-2 and ns-3 network simulators. , 2010, , .		17