

Federico Corradi

List of Publications by Year in descending order

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37
papers

1,545
citations

759233

12
h-index

996975

15
g-index

38
all docs

38
docs citations

38
times ranked

1378
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the Accuracy of Spiking Neural Networks for Radar Gesture Recognition Through Preprocessing. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2869-2881.	11.3	10
2	Design of Many-Core Big Little μ Brains for Energy-Efficient Embedded Neuromorphic Computing. , 2022, , .		6
3	Nonvolatile Memories in Spiking Neural Network Architectures: Current and Emerging Trends. Electronics (Switzerland), 2022, 11, 1610.	3.1	8
4	Radar Perception for Autonomous Unmanned Aerial Vehicles: a Survey. , 2022, , .		1
5	Evolved neuromorphic radar-based altitude controller for an autonomous open-source blimp. , 2022, , .		2
6	Gyro: A Digital Spiking Neural Network Architecture for Multi-Sensory Data Analytics. , 2021, , .		10
7	$\hat{1}/4$ Brain: An Event-Driven and Fully Synthesizable Architecture for Spiking Neural Networks. Frontiers in Neuroscience, 2021, 15, 664208.	2.8	51
8	Radar-Based Hand Gesture Recognition Using Spiking Neural Networks. Electronics (Switzerland), 2021, 10, 1405.	3.1	20
9	A Dynamic Reconfigurable Architecture for Hybrid Spiking and Convolutional FPGA-Based Neural Network Designs. Journal of Low Power Electronics and Applications, 2021, 11, 32.	2.0	12
10	Accurate and efficient time-domain classification with adaptive spiking recurrent neural networks. Nature Machine Intelligence, 2021, 3, 905-913.	16.0	74
11	Key technologies for safe and autonomous drones. Microprocessors and Microsystems, 2021, 87, 104348.	2.8	12
12	A 28.2 $\hat{1}/4$ C Neuromorphic Sensing System Featuring SNN-based Near-sensor Computation and Event-Driven Body-Channel Communication for Insertable Cardiac Monitoring. , 2021, , .		9
13	Key Enabling Technologies for Drones. , 2020, , .		8
14	Wearable Monitoring and Interpretable Machine Learning Can Objectively Track Progression in Patients during Cardiac Rehabilitation. Sensors, 2020, 20, 3601.	3.8	22
15	Effective and Efficient Computation with Multiple-timescale Spiking Recurrent Neural Networks. , 2020, , .		41
16	NullHop: A Flexible Convolutional Neural Network Accelerator Based on Sparse Representations of Feature Maps. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 644-656.	11.3	183
17	ECG-based Heartbeat Classification in Neuromorphic Hardware. , 2019, , .		34
18	A 132 by 104 10 $\hat{1}/4$ m-Pixel 250 $\hat{1}/4$ W 1kefps Dynamic Vision Sensor with Pixel-Parallel Noise and Spatial Redundancy Suppression. , 2019, , .		23

#	ARTICLE	IF	CITATIONS
19	DHP19: Dynamic Vision Sensor 3D Human Pose Dataset. , 2019, , .		36
20	Real Time Electrocardiogram Annotation with a Long Short Term Memory Neural Network. , 2019, , .		5
21	A Sensitive Dynamic and Active Pixel Vision Sensor for Color or Neural Imaging Applications. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 123-136.	4.0	59
22	Power-Accuracy Trade-Offs for Heartbeat Classification on Neural Networks Hardware. Journal of Low Power Electronics, 2018, 14, 508-519.	0.6	31
23	Live demonstration: Convolutional neural network driven by dynamic vision sensor playing RoShamBo. , 2017, , .		38
24	Steering a predator robot using a mixed frame/event-driven convolutional neural network. , 2016, , .		73
25	Neuromorphic architectures for spiking deep neural networks. , 2015, , .		85
26	Real time unsupervised learning of visual stimuli in neuromorphic VLSI systems. Scientific Reports, 2015, 5, 14730.	3.3	22
27	A reconfigurable on-line learning spiking neuromorphic processor comprising 256 neurons and 128K synapses. Frontiers in Neuroscience, 2015, 9, 141.	2.8	496
28	Decision making and perceptual bistability in spike-based neuromorphic VLSI systems. , 2015, , .		11
29	A Neuromorphic Event-Based Neural Recording System for Smart Brain-Machine-Interfaces. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 699-709.	4.0	89
30	A spiking implementation of the lamprey's Central Pattern Generator in neuromorphic VLSI. , 2014, , .		17
31	A hybrid analog/digital Spike-Timing Dependent Plasticity learning circuit for neuromorphic VLSI multi-neuron architectures. , 2014, , .		10
32	Toward neuromorphic intelligent brain-machine interfaces: An event-based neural recording and processing system. , 2014, , .		5
33	Towards a Neuromorphic Vestibular System. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 669-680.	4.0	11
34	Mapping arbitrary mathematical functions and dynamical systems to neuromorphic VLSI circuits for spike-based neural computation. , 2014, , .		22
35	Implementation of a neuromorphic vestibular sensor with analog VLSI neurons. , 2013, , .		3
36	Automated synthesis of asynchronous event-based interfaces for neuromorphic systems. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	Learning to recognize visual stimuli in neuromorphic VLSI. , 2012, , .		0