

Anton Civit

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

1,631
citations

430442

18
h-index

360668

35
g-index

82
all docs

82
docs citations

82
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	CAVIAR: A 45k Neuron, 5M Synapse, 12G Connects/s AER Hardware Sensoryâ€“Processingâ€“ Learningâ€“Actuating System for High-Speed Visual Object Recognition and Tracking. IEEE Transactions on Neural Networks, 2009, 20, 1417-1438.	4.8	285
2	Deep Learning System for COVID-19 Diagnosis Aid Using X-ray Pulmonary Images. Applied Sciences (Switzerland), 2020, 10, 4640.	1.3	125
3	A game-based approach to the teaching of object-oriented programming languages. Computers and Education, 2014, 73, 83-92.	5.1	78
4	A 5 Meps \$100 USB2.0 Address-Event Monitor-Sequencer Interface. , 2007, , .		71
5	A Neuro-Inspired Spike-Based PID Motor Controller for Multi-Motor Robots with Low Cost FPGAs. Sensors, 2012, 12, 3831-3856.	2.1	70
6	On Real-Time AER 2-D Convolutions Hardware for Neuromorphic Spike-Based Cortical Processing. IEEE Transactions on Neural Networks, 2008, 19, 1196-1219.	4.8	65
7	On algorithmic rate-coded AER generation. IEEE Transactions on Neural Networks, 2006, 17, 771-788.	4.8	60
8	Analyzing recommender systems for health promotion using a multidisciplinary taxonomy: A scoping review. International Journal of Medical Informatics, 2018, 114, 143-155.	1.6	58
9	Wearable Fall Detector Using Recurrent Neural Networks. Sensors, 2019, 19, 4885.	2.1	57
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	HealthRecSys: A semantic content-based recommender system to complement health videos. BMC Medical Informatics and Decision Making, 2017, 17, 63.	1.5	49
12	Exergames versus self-regulated exercises with instruction leaflets to improve adherence during geriatric rehabilitation: a randomized controlled trial. BMC Geriatrics, 2017, 17, 77.	1.1	44
13	ROM-Based Finite State Machine Implementation in Low Cost FPGAs. , 2007, , .		41
14	AER tools for communications and debugging. , 0, , .		37
15	A Mobile Health Solution Complementing Psychopharmacology-Supported Smoking Cessation: Randomized Controlled Trial. JMIR MHealth and UHealth, 2020, 8, e17530.	1.8	35
16	Tailoring motivational health messages for smoking cessation using an mHealth recommender system integrated with an electronic health record: a study protocol. BMC Public Health, 2018, 18, 698.	1.2	33
17	ROM-based FSM implementation using input multiplexing in FPGA devices. Electronics Letters, 2004, 40, 1249.	0.5	26
18	Universal access to mobile telephony as a way to enhance the autonomy of elderly people. , 2001, , .		25

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19	A study on the use of Edge TPUs for eye fundus image segmentation. Engineering Applications of Artificial Intelligence, 2021, 104, 104384.	4.3	23
20	Test Infrastructure for Address-Event-Representation Communications. Lecture Notes in Computer Science, 2005, , 518-526.	1.0	21
21	Building blocks for spikes signals processing. , 2010, , .		21
22	TPU Cloud-Based Generalized U-Net for Eye Fundus Image Segmentation. IEEE Access, 2019, 7, 142379-142387.	2.6	21
23	Evaluation of user satisfaction and usability of a mobile app for smoking cessation. Computer Methods and Programs in Biomedicine, 2019, 182, 105042.	2.6	20
24	A Study on the Suitability of Visual Languages for Non-Expert Robot Programmers. IEEE Access, 2019, 7, 17535-17550.	2.6	19
25	Opening the Black Box: Explaining the Process of Basing a Health Recommender System on the I-Change Behavioral Change Model. IEEE Access, 2019, 7, 176525-176540.	2.6	19
26	A generalization of path following for mobile robots. , 0, , .		16
27	A path following control for unicycle robots. Journal of Field Robotics, 2001, 18, 325-342.	0.7	16
28	AnkFallâ€™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
29	Inter-spike-intervals analysis of AER Poisson-like generator hardware. Neurocomputing, 2007, 70, 2692-2700.	3.5	15
30	Low-Power Embedded System for Gait Classification Using Neural Networks. Journal of Low Power Electronics and Applications, 2020, 10, 14.	1.3	13
31	PCI-AER interface for neuro-inspired spiking systems. , 0, , .		11
32	TetraNauta: a intelligent wheelchair for users with very severe mobility restrictions. , 0, , .		10
33	Using the Social-Local-Mobile App for Smoking Cessation in the SmokeFreeBrain Project: Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 2018, 7, e12464.	0.5	10
34	Analysis of channel utilization for controller area networks. Computer Communications, 1998, 21, 1446-1451.	3.1	9
35	AER-based robotic closed-loop control system. , 2008, , .		9
36	An Automated Fall Detection System Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2019, , 36-41.	1.0	9

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37	Affective State Assistant for Helping Users with Cognition Disabilities Using Neural Networks. Electronics (Switzerland), 2020, 9, 1843.	1.8	9
38	Synthetic retina for AER systems development. , 2009, , .		8
39	SIRIUS: improving the maneuverability of powered wheelchairs. , 0, , .		7
40	Poisson AER generator: Inter-Spike-Intervals Analysis. , 0, , .		7
41	RISC-based architectures for multiple robot systems. Microprocessors and Microsystems, 1992, 16, 177-186.	1.8	6
42	On synthetic AER generation. , 0, , .		6
43	Does Two-Class Training Extract Real Features? A COVID-19 Case Study. Applied Sciences (Switzerland), 2021, 11, 1424.	1.3	6
44	On the Design of Ambient Intelligent Systems in the Context of Assistive Technologies. Lecture Notes in Computer Science, 2004, , 914-921.	1.0	6
45	Synthetic generation of address-events for real-time image processing. , 0, , .		5
46	Time-recovering PCI-AER interface for bio-inspired spiking systems. , 2005, , .		4
47	Soft real-time communications over Bluetooth under interferences from ISM devices. International Journal of Communication Systems, 2006, 19, 1103-1116.	1.6	4
48	FPGA-Based Implementation of RAM with Asymmetric Port Widths for Run-Time Reconfiguration. , 2007, , .		4
49	FPGA Implementations Comparison of Neuro-cortical Inspired Convolution Processors for Spiking Systems. Lecture Notes in Computer Science, 2009, , 97-105.	1.0	4
50	Polyp Detection in Gastrointestinal Images using Faster Regional Convolutional Neural Network. , 2019, , .		4
51	Error adaptive tracking for mobile robots. , 0, , .		3
52	An analytical model of inter-channel interference in Bluetooth-based systems. , 0, , .		3
53	A LVDS Serial AER Link. , 2006, , .		3
54	High-speed image processing with AER-based components. , 0, , .		3

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55	Modelling side to side intestinal anastomosis. Biomedical Engineering Letters, 2017, 7, 267-271.	2.1	3
56	Use of a mobile App to give up smoking. Results from a clinical trial. , 2019, , .		3
57	Software generation of address-event-representation for interchip images communications. , 0, , .		2
58	LVDS Serial AER Link performance. , 2007, , .		2
59	Image convolution using a probabilistic mapper on USB-AER board. , 2008, , .		2
60	From Vision Sensor to Actuators, Spike Based Robot Control through Address-Event-Representation. Lecture Notes in Computer Science, 2009, , 797-804.	1.0	2
61	Visual spike-based convolution processing with a Cellular Automata architecture. , 2010, , .		2
62	A study of bus emulation. Application to M68000 based systems. Microprocessors and Microsystems, 1998, 21, 319-327.	1.8	1
63	Application of bus emulation techniques to the design of a PCI/MC68000 bridge. Microprocessors and Microsystems, 2002, 26, 373-389.	1.8	1
64	INFLUENCE OF INPUT/OUTPUT OPERATIONS ON PROCESSOR PERFORMANCE. Journal of Circuits, Systems and Computers, 2006, 15, 43-56.	1.0	1
65	Spike Processing on an Embedded Multi-task Computer: Image Reconstruction. , 2007, , .		1
66	CHRONO-SCHEDULING: A SIMPLIFIED DYNAMIC SCHEDULING ALGORITHM FOR TIMING PREDICTABLE PROCESSORS. Journal of Circuits, Systems and Computers, 2009, 18, 387-406.	1.0	1
67	A Smart Electric Wheelchair Using UPnP. Lecture Notes in Computer Science, 2006, , 285-299.	1.0	1
68	Multidataset Incremental Training for Optic Disc Segmentation. Proceedings of the International Neural Networks Society, 2020, , 365-376.	0.6	1
69	Intelligent peripheral controller for the M68000 family. Microprocessors and Microsystems, 1987, 11, 383-386.	1.8	0
70	Performance analysis of CSMA networks with deterministic collision resolution. Telecommunication Systems, 1996, 6, 67-76.	1.6	0
71	Performance analysis of single-slave Bluetooth piconets under cochannel interference. , 0, , .		0
72	AER synthetic generation in hardware for bio-inspired spiking systems. , 2005, , .		0

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73	Accessibility via metadata in a semantic web-driven Content Management System. International Journal of Metadata, Semantics and Ontologies, 2006, 1, 224.	0.2	0
74	Spike Events Processing for Vision Systems. , 2007, , .		0
75	An AER Spike-Processing Filter Simulator and Automatic VHDL Generator Based on Cellular Automata. Lecture Notes in Computer Science, 2011, , 157-165.	1.0	0
76	Multi-dataset Training for Medical Image Segmentation as a Service. , 2019, , .		0
77	Embedding Multi-Task Address-Event-Representation Computation. Lecture Notes in Electrical Engineering, 2009, , 31-44.	0.3	0