

# Anton Civit

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1788745/publications.pdf>

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	Does Two-Class Training Extract Real Features? A COVID-19 Case Study. Applied Sciences (Switzerland), 2021, 11, 1424.	1.3	6
2	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
3	A study on the use of Edge TPUs for eye fundus image segmentation. Engineering Applications of Artificial Intelligence, 2021, 104, 104384.	4.3	23
4	Dual Machine-Learning System to Aid Glaucoma Diagnosis Using Disc and Cup Feature Extraction. IEEE Access, 2020, 8, 127519-127529.	2.6	52
5	Affective State Assistant for Helping Users with Cognition Disabilities Using Neural Networks. Electronics (Switzerland), 2020, 9, 1843.	1.8	9
6	Deep Learning System for COVID-19 Diagnosis Aid Using X-ray Pulmonary Images. Applied Sciences (Switzerland), 2020, 10, 4640.	1.3	125
7	Low-Power Embedded System for Gait Classification Using Neural Networks. Journal of Low Power Electronics and Applications, 2020, 10, 14.	1.3	13
8	A Mobile Health Solution Complementing Psychopharmacology-Supported Smoking Cessation: Randomized Controlled Trial. JMIR MHealth and UHealth, 2020, 8, e17530.	1.8	35
9	Multidataset Incremental Training for Optic Disc Segmentation. Proceedings of the International Neural Networks Society, 2020, , 365-376.	0.6	1
10	A Study on the Suitability of Visual Languages for Non-Expert Robot Programmers. IEEE Access, 2019, 7, 17535-17550.	2.6	19
11	TPU Cloud-Based Generalized U-Net for Eye Fundus Image Segmentation. IEEE Access, 2019, 7, 142379-142387.	2.6	21
12	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
13	An Automated Fall Detection System Using Recurrent Neural Networks. Lecture Notes in Computer Science, 2019, , 36-41.	1.0	9
14	Wearable Fall Detector Using Recurrent Neural Networks. Sensors, 2019, 19, 4885.	2.1	57
15	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
16	Use of a mobile App to give up smoking. Results from a clinical trial. , 2019, , .		3
17	Polyp Detection in Gastrointestinal Images using Faster Regional Convolutional Neural Network. , 2019, , .		4
18	Multi-dataset Training for Medical Image Segmentation as a Service. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Analyzing recommender systems for health promotion using a multidisciplinary taxonomy: A scoping review. <i>International Journal of Medical Informatics</i> , 2018, 114, 143-155.	1.6	58
20	Tailoring motivational health messages for smoking cessation using an mHealth recommender system integrated with an electronic health record: a study protocol. <i>BMC Public Health</i> , 2018, 18, 698.	1.2	33
21	Using the Social-Local-Mobile App for Smoking Cessation in the SmokeFreeBrain Project: Protocol for a Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2018, 7, e12464.	0.5	10
22	Exergames versus self-regulated exercises with instruction leaflets to improve adherence during geriatric rehabilitation: a randomized controlled trial. <i>BMC Geriatrics</i> , 2017, 17, 77.	1.1	44
23	Modelling side to side intestinal anastomosis. <i>Biomedical Engineering Letters</i> , 2017, 7, 267-271.	2.1	3
24	HealthRecSys: A semantic content-based recommender system to complement health videos. <i>BMC Medical Informatics and Decision Making</i> , 2017, 17, 63.	1.5	49
25	A game-based approach to the teaching of object-oriented programming languages. <i>Computers and Education</i> , 2014, 73, 83-92.	5.1	78
26	A Neuro-Inspired Spike-Based PID Motor Controller for Multi-Motor Robots with Low Cost FPGAs. <i>Sensors</i> , 2012, 12, 3831-3856.	2.1	70
27	An AER Spike-Processing Filter Simulator and Automatic VHDL Generator Based on Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2011, , 157-165.	1.0	0
28	Visual spike-based convolution processing with a Cellular Automata architecture. , 2010, , .		2
29	Building blocks for spikes signals processing. , 2010, , .		21
30	CAVIAR: A 45k Neuron, 5M Synapse, 12G Connects/s AER Hardware Sensoryâ€“Processingâ€“ Learningâ€“Actuating System for High-Speed Visual Object Recognition and Tracking. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 1417-1438.	4.8	285
31	Synthetic retina for AER systems development. , 2009, , .		8
32	CHRONO-SCHEDULING: A SIMPLIFIED DYNAMIC SCHEDULING ALGORITHM FOR TIMING PREDICTABLE PROCESSORS. <i>Journal of Circuits, Systems and Computers</i> , 2009, 18, 387-406.	1.0	1
33	From Vision Sensor to Actuators, Spike Based Robot Control through Address-Event-Representation. <i>Lecture Notes in Computer Science</i> , 2009, , 797-804.	1.0	2
34	FPGA Implementations Comparison of Neuro-cortical Inspired Convolution Processors for Spiking Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 97-105.	1.0	4
35	Embedding Multi-Task Address-Event-Representation Computation. <i>Lecture Notes in Electrical Engineering</i> , 2009, , 31-44.	0.3	0
36	AER-based robotic closed-loop control system. , 2008, , .		9

#	ARTICLE	IF	CITATIONS
37	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
38	Image convolution using a probabilistic mapper on USB-AER board. , 2008, , .		2
39	A 5 Meps \$100 USB2.0 Address-Event Monitor-Sequencer Interface. , 2007, , .		71
40	Spike Events Processing for Vision Systems. , 2007, , .		0
41	ROM-Based Finite State Machine Implementation in Low Cost FPGAs. , 2007, , .		41
42	Spike Processing on an Embedded Multi-task Computer: Image Reconstruction. , 2007, , .		1
43	LVDS Serial AER Link performance. , 2007, , .		2
44	FPGA-Based Implementation of RAM with Asymmetric Port Widths for Run-Time Reconfiguration. , 2007, , .		4
45	Inter-spike-intervals analysis of AER Poisson-like generator hardware. Neurocomputing, 2007, 70, 2692-2700.	3.5	15
46	On algorithmic rate-coded AER generation. IEEE Transactions on Neural Networks, 2006, 17, 771-788.	4.8	60
47	A LVDS Serial AER Link. , 2006, , .		3
48	Accessibility via metadata in a semantic web-driven Content Management System. International Journal of Metadata, Semantics and Ontologies, 2006, 1, 224.	0.2	0
49	Soft real-time communications over Bluetooth under interferences from ISM devices. International Journal of Communication Systems, 2006, 19, 1103-1116.	1.6	4
50	INFLUENCE OF INPUT/OUTPUT OPERATIONS ON PROCESSOR PERFORMANCE. Journal of Circuits, Systems and Computers, 2006, 15, 43-56.	1.0	1
51	A Smart Electric Wheelchair Using UPnP. Lecture Notes in Computer Science, 2006, , 285-299.	1.0	1
52	Time-recovering PCI-AER interface for bio-inspired spiking systems. , 2005, , .		4
53	AER synthetic generation in hardware for bio-inspired spiking systems. , 2005, , .		0
54	Test Infrastructure for Address-Event-Representation Communications. Lecture Notes in Computer Science, 2005, , 518-526.	1.0	21

#	ARTICLE	IF	CITATIONS
55	ROM-based FSM implementation using input multiplexing in FPGA devices. Electronics Letters, 2004, 40, 1249.	0.5	26
56	On the Design of Ambient Intelligent Systems in the Context of Assistive Technologies. Lecture Notes in Computer Science, 2004, , 914-921.	1.0	6
57	Application of bus emulation techniques to the design of a PCI/MC68000 bridge. Microprocessors and Microsystems, 2002, 26, 373-389.	1.8	1
58	A path following control for unicycle robots. Journal of Field Robotics, 2001, 18, 325-342.	0.7	16
59	Universal access to mobile telephony as a way to enhance the autonomy of elderly people. , 2001, , .		25
60	A study of bus emulation. Application to M68000 based systems. Microprocessors and Microsystems, 1998, 21, 319-327.	1.8	1
61	Analysis of channel utilization for controller area networks. Computer Communications, 1998, 21, 1446-1451.	3.1	9
62	Performance analysis of CSMA networks with deterministic collision resolution. Telecommunication Systems, 1996, 6, 67-76.	1.6	0
63	RISC-based architectures for multiple robot systems. Microprocessors and Microsystems, 1992, 16, 177-186.	1.8	6
64	Intelligent peripheral controller for the M68000 family. Microprocessors and Microsystems, 1987, 11, 383-386.	1.8	0
65	A generalization of path following for mobile robots. , 0, , .		16
66	SIRIUS: improving the maneuverability of powered wheelchairs. , 0, , .		7
67	TetraNauta: a intelligent wheelchair for users with very severe mobility restrictions. , 0, , .		10
68	Error adaptive tracking for mobile robots. , 0, , .		3
69	Software generation of address-event-representation for interchip images communications. , 0, , .		2
70	An analytical model of inter-channel interference in Bluetooth-based systems. , 0, , .		3
71	Synthetic generation of address-events for real-time image processing. , 0, , .		5
72	Performance analysis of single-slave Bluetooth piconets under cochannel interference. , 0, , .		0

#	ARTICLE	IF	CITATIONS
73	On synthetic AER generation. , 0, , .		6
74	PCI-AER interface for neuro-inspired spiking systems. , 0, , .		11
75	Poisson AER generator: Inter-Spike-Intervals Analysis. , 0, , .		7
76	AER tools for communications and debugging. , 0, , .		37
77	High-speed image processing with AER-based components. , 0, , .		3