

Alan G Millard

List of Publications by Year in descending order

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25
papers

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citations

1307594

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1125743

13
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26
all docs

26
docs citations

26
times ranked

197
citing authors

#	ARTICLE	IF	CITATIONS
1	Homeostatic Fault Tolerance in Spiking Neural Networks: A Dynamic Hardware Perspective. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 687-699.	5.4	35
2	Exploring Self-Repair in a Coupled Spiking Astrocyte Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 865-875.	11.3	34
3	Run-time detection of faults in autonomous mobile robots based on the comparison of simulated and real robot behaviour. , 2014, , .		19
4	An FPGA-based hardware-efficient fault-tolerant astrocyte-neuron network. , 2016, , .		18
5	The Pi-puck extension board: A raspberry Pi interface for the e-puck robot platform. , 2017, , .		17
6	ARDebug: An Augmented Reality Tool for Analysing and Debugging Swarm Robotic Systems. Frontiers in Robotics and AI, 2018, 5, 87.	3.2	16
7	The Need for Combining Implicit and Explicit Communication in Cooperative Robotic Systems. Frontiers in Robotics and AI, 2018, 5, 65.	3.2	16
8	Assessing Self-Repair on FPGAs with Biologically Realistic Astrocyte-Neuron Networks. , 2017, , .		11
9	Adaptive Online Fault Diagnosis in Autonomous Robot Swarms. Frontiers in Robotics and AI, 2018, 5, 131.	3.2	8
10	Towards Exogenous Fault Detection in Swarm Robotic Systems. Lecture Notes in Computer Science, 2014, , 429-430.	1.3	8
11	FPGA-based Fault-injection and Data Acquisition of Self-repairing Spiking Neural Network Hardware. , 2018, , .		7
12	The Pi-puck Ecosystem: Hardware and Software Support for the e-puck and e-puck2. Lecture Notes in Computer Science, 2020, , 243-255.	1.3	7
13	Time-multiplexed System-on-Chip using Fault-tolerant Astrocyte-Neuron Networks. , 2018, , .		6
14	Towards a Swarm Robotic System for Autonomous Cereal Harvesting. Lecture Notes in Computer Science, 2019, , 458-461.	1.3	6
15	GABA Regulation of Burst Firing in Hippocampal Astrocyte Neural Circuit: A Biophysical Model. Frontiers in Cellular Neuroscience, 2019, 13, 335.	3.7	6
16	Fault-Tolerant Learning in Spiking Astrocyte-Neural Networks on FPGAs. , 2018, , .		4
17	Searching for Pareto-optimal Randomised Algorithms. Lecture Notes in Computer Science, 2012, , 183-197.	1.3	3
18	Self-repairing Learning Rule for Spiking Astrocyte-Neuron Networks. Lecture Notes in Computer Science, 2017, , 384-392.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Towards Fault Diagnosis in Robot Swarms: An Online Behaviour Characterisation Approach. Lecture Notes in Computer Science, 2017, , 393-407.	1.3	3
20	Homeostatic fault tolerance in spiking neural networks utilizing dynamic partial reconfiguration of FPGAs. , 2017, , .		2
21	Fault diagnosis in robot swarms: An adaptive online behaviour characterisation approach. , 2017, , .		2
22	Bio-inspired Anomaly Detection for Low-cost Gas Sensors. , 2018, , .		1
23	Prototyping Sensors and Actuators for Robot Swarms in Mixed Reality. Lecture Notes in Computer Science, 2020, , 377-386.	1.3	1
24	OpenKilo: A Truly Open-Source Kilobot Design Revision that Aids Repair and Extensibility. Lecture Notes in Computer Science, 2020, , 345-356.	1.3	0
25	Autonomous Learning Paradigm for Spiking Neural Networks. Lecture Notes in Computer Science, 2019, , 737-744.	1.3	0