Emanuele Torti

List of Publications by Year
in descending order

39	656	567247 15	610883 24
papers	citations	h-index	g-index

39	39	39	854
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FPGA High Level Synthesis for the classification of skin tumors with hyperspectral images. , 2022, , .		3
2	Granular layEr Simulator: Design and Multi-GPU Simulation of the Cerebellar Granular Layer. Frontiers in Computational Neuroscience, 2021, 15, 630795.	2.1	6
3	Deep learning and lung ultrasound for Covid-19 pneumonia detection and severity classification. Computers in Biology and Medicine, 2021, 136, 104742.	7.0	43
4	A low power and real-time hardware recurrent neural network for time series analysis on wearable devices. Microprocessors and Microsystems, 2021, 87, 104374.	2.8	2
5	Diabetic macular edema with neuroretinal detachment: OCT and OCT-angiography biomarkers of treatment response to anti-VEGF and steroids. Acta Diabetologica, 2020, 57, 287-296.	2.5	74
6	Towards Real-Time Computing of Intraoperative Hyperspectral Imaging for Brain Cancer Detection Using Multi-GPU Platforms. IEEE Access, 2020, 8, 8485-8501.	4.2	23
7	Parallel Classification Pipelines for Skin Cancer Detection Exploiting Hyperspectral Imaging on Hybrid Systems. Electronics (Switzerland), 2020, 9, 1503.	3.1	15
8	Subthreshold Micropulse Laser in Diabetic Macular Edema: 1-Year Improvement in OCT/OCT-Angiography Biomarkers. Translational Vision Science and Technology, 2020, 9, 31.	2.2	23
9	An Hardware Recurrent Neural Network for Wearable Devices. , 2020, , .		2
10	Cyst Detection and Motion Artifact Elimination in Enface Optical Coherence Tomography Angiograms. Applied Sciences (Switzerland), 2020, 10, 3994.	2.5	1
11	Raman Spectroscopy Reveals That Biochemical Composition of Breast Microcalcifications Correlates with Histopathologic Features. Cancer Research, 2020, 80, 1762-1772.	0.9	37
12	High Speed Wireless Optical System for Motorsport Data Loggers. Electronics (Switzerland), 2019, 8, 873.	3.1	1
13	Embedding Recurrent Neural Networks in Wearable Systems for Real-Time Fall Detection. Microprocessors and Microsystems, 2019, 71, 102895.	2.8	32
14	Parallel Implementations Assessment of a Spatial-Spectral Classifier for Hyperspectral Clinical Applications. IEEE Access, 2019, 7, 152316-152333.	4.2	8
15	GPU Parallelization of Realistic Purkinje Cells with Complex Morphology. , 2019, , .		3
16	Quantitative choriocapillaris evaluation in intermediate ageâ€related macular degeneration by sweptâ€source optical coherence tomography angiography. Acta Ophthalmologica, 2019, 97, e919-e926.	1.1	22
17	Automatic and Unsupervised Identification of Specific Biochemical Features from Raman Mapping Data. , 2019, , .		1
18	High-Level Synthesis of Multiclass SVM Using Code Refactoring to Classify Brain Cancer from Hyperspectral Images. Electronics (Switzerland), 2019, 8, 1494.	3.1	6

#	Article	IF	Citations
19	Exploiting multi-core and many-core architectures for efficient simulation of biologically realistic models of Golgi cells. Journal of Parallel and Distributed Computing, 2019, 126, 48-66.	4.1	3
20	Deep Recurrent Neural Networks for Edge Monitoring of Personal Risk and Warning Situations. Scientific Programming, 2019, 2019, 1-10.	0.7	26
21	A suite of parallel algorithms for efficient band selection from hyperspectral images. Journal of Real-Time Image Processing, 2018, 15, 537-553.	3.5	8
22	Parallel real-time virtual dimensionality estimation for hyperspectral images. Journal of Real-Time Image Processing, 2018, 14, 753-761.	3.5	8
23	Hyperspectral Image Classification Using Parallel Autoencoding Diabolo Networks on Multi-Core and Many-Core Architectures. Electronics (Switzerland), 2018, 7, 411.	3.1	7
24	Parallel K-Means Clustering for Brain Cancer Detection Using Hyperspectral Images. Electronics (Switzerland), 2018, 7, 283.	3.1	27
25	Embedded Real-Time Fall Detection with Deep Learning on Wearable Devices. , 2018, , .		35
26	Acceleration of brain cancer detection algorithms during surgery procedures using GPUs. Microprocessors and Microsystems, 2018, 61, 171-178.	2.8	19
27	Antepartum Fetal Monitoring through a Wearable System and a Mobile Application. Technologies, 2018, 6, 44.	5.1	16
28	Accelerating the K-Nearest Neighbors Filtering Algorithm to Optimize the Real-Time Classification of Human Brain Tumor in Hyperspectral Images. Sensors, 2018, 18, 2314.	3.8	28
29	High Performant Simulations of Cerebellar Golgi Cells Activity. , 2017, , .		6
30	The HELICoiD Project: Parallel SVM for Brain Cancer Classification. , 2017, , .		1
31	Development of a real-time heart rate estimation algorithm on a low-power device. , 2017, , .		2
32	Custom FPGA processing for real-time fetal ECG extraction and identification. Computers in Biology and Medicine, 2017, 80, 30-38.	7.0	13
33	Block matching super-resolution parallel GPU implementation for computational imaging. IEEE Transactions on Consumer Electronics, 2017, 63, 368-376.	3.6	4
34	OpenMP and CUDA simulations of Sella Zerbino Dam break on unstructured grids. Computational Geosciences, 2016, 20, 1123-1132.	2.4	38
35	The Human Brain Project: Parallel technologies for biologically accurate simulation of Granule cells. Microprocessors and Microsystems, 2016, 47, 303-313.	2.8	15
36	A Hybrid CPUâ€“GPU Real-Time Hyperspectral Unmixing Chain. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 945-951.	4.9	35

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37	The Human Brain Project: High Performance Computing for Brain Cells Hw/Sw Simulation and Understanding. , 2015, , .		8
38	Real-Time Identification of Hyperspectral Subspaces. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2680-2687.	4.9	20
39	Real-Time Implementation of the Vertex Component Analysis Algorithm on GPUs. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 251-255.	3.1	35