Emanuele Torti

List of Publications by Year
in descending order

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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	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
2	Deep learning and lung ultrasound for Covid-19 pneumonia detection and severity classification. Computers in Biology and Medicine, 2021, 136, 104742.	7.0	43
3	OpenMP and CUDA simulations of Sella Zerbino Dam break on unstructured grids. Computational Geosciences, 2016, 20, 1123-1132.	2.4	38
4	Raman Spectroscopy Reveals That Biochemical Composition of Breast Microcalcifications Correlates with Histopathologic Features. Cancer Research, 2020, 80, 1762-1772.	0.9	37
5	Real-Time Implementation of the Vertex Component Analysis Algorithm on GPUs. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 251-255.	3.1	35
6	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
7	Embedded Real-Time Fall Detection with Deep Learning on Wearable Devices. , 2018, , .		35
8	Embedding Recurrent Neural Networks in Wearable Systems for Real-Time Fall Detection. Microprocessors and Microsystems, 2019, 71, 102895.	2.8	32
9	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
10	Parallel K-Means Clustering for Brain Cancer Detection Using Hyperspectral Images. Electronics (Switzerland), 2018, 7, 283.	3.1	27
11	Deep Recurrent Neural Networks for Edge Monitoring of Personal Risk and Warning Situations. Scientific Programming, 2019, 2019, 1-10.	0.7	26
12	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
13	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
14	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
15	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
16	Acceleration of brain cancer detection algorithms during surgery procedures using GPUs. Microprocessors and Microsystems, 2018, 61, 171-178.	2.8	19
17	Antepartum Fetal Monitoring through a Wearable System and a Mobile Application. Technologies, 2018, 6, 44.	5.1	16
18	The Human Brain Project: Parallel technologies for biologically accurate simulation of Granule cells. Microprocessors and Microsystems, 2016, 47, 303-313.	2.8	15

#	Article	IF	Citations
19	Parallel Classification Pipelines for Skin Cancer Detection Exploiting Hyperspectral Imaging on Hybrid Systems. Electronics (Switzerland), 2020, 9, 1503.	3.1	15
20	Custom FPGA processing for real-time fetal ECG extraction and identification. Computers in Biology and Medicine, 2017, 80, 30-38.	7.0	13
21	The Human Brain Project: High Performance Computing for Brain Cells Hw/Sw Simulation and Understanding. , 2015, , .		8
22	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
23	Parallel real-time virtual dimensionality estimation for hyperspectral images. Journal of Real-Time Image Processing, 2018, 14, 753-761.	3.5	8
24	Parallel Implementations Assessment of a Spatial-Spectral Classifier for Hyperspectral Clinical Applications. IEEE Access, 2019, 7, 152316-152333.	4.2	8
25	Hyperspectral Image Classification Using Parallel Autoencoding Diabolo Networks on Multi-Core and Many-Core Architectures. Electronics (Switzerland), 2018, 7, 411.	3.1	7
26	High Performant Simulations of Cerebellar Golgi Cells Activity. , 2017, , .		6
27	High-Level Synthesis of Multiclass SVM Using Code Refactoring to Classify Brain Cancer from Hyperspectral Images. Electronics (Switzerland), 2019, 8, 1494.	3.1	6
28	Granular layEr Simulator: Design and Multi-GPU Simulation of the Cerebellar Granular Layer. Frontiers in Computational Neuroscience, 2021, 15, 630795.	2.1	6
29	Block matching super-resolution parallel GPU implementation for computational imaging. IEEE Transactions on Consumer Electronics, 2017, 63, 368-376.	3.6	4
30	GPU Parallelization of Realistic Purkinje Cells with Complex Morphology. , 2019, , .		3
31	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
32	FPGA High Level Synthesis for the classification of skin tumors with hyperspectral images. , 2022, , .		3
33	Development of a real-time heart rate estimation algorithm on a low-power device. , 2017, , .		2
34	An Hardware Recurrent Neural Network for Wearable Devices. , 2020, , .		2
35	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
36	The HELICoiD Project: Parallel SVM for Brain Cancer Classification. , 2017, , .		1

#	Article	IF	Citations
37	High Speed Wireless Optical System for Motorsport Data Loggers. Electronics (Switzerland), 2019, 8, 873.	3.1	1
38	Automatic and Unsupervised Identification of Specific Biochemical Features from Raman Mapping Data. , 2019, , .		1
39	Cyst Detection and Motion Artifact Elimination in Enface Optical Coherence Tomography Angiograms. Applied Sciences (Switzerland), 2020, 10, 3994.	2.5	1