

Emanuele Torti

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

656
citations

567281
15
h-index

610901
24
g-index

39
all docs

39
docs citations

39
times ranked

854
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. <i>Acta Diabetologica</i> , 2020, 57, 287-296.	2.5	74
2	Deep learning and lung ultrasound for Covid-19 pneumonia detection and severity classification. <i>Computers in Biology and Medicine</i> , 2021, 136, 104742.	7.0	43
3	OpenMP and CUDA simulations of Sella Zerbino Dam break on unstructured grids. <i>Computational Geosciences</i> , 2016, 20, 1123-1132.	2.4	38
4	Raman Spectroscopy Reveals That Biochemical Composition of Breast Microcalcifications Correlates with Histopathologic Features. <i>Cancer Research</i> , 2020, 80, 1762-1772.	0.9	37
5	Real-Time Implementation of the Vertex Component Analysis Algorithm on GPUs. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 251-255.	3.1	35
6	A Hybrid CPU-GPU Real-Time Hyperspectral Unmixing Chain. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 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. <i>Microprocessors and Microsystems</i> , 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. <i>Sensors</i> , 2018, 18, 2314.	3.8	28
10	Parallel K-Means Clustering for Brain Cancer Detection Using Hyperspectral Images. <i>Electronics (Switzerland)</i> , 2018, 7, 283.	3.1	27
11	Deep Recurrent Neural Networks for Edge Monitoring of Personal Risk and Warning Situations. <i>Scientific Programming</i> , 2019, 2019, 1-10.	0.7	26
12	Towards Real-Time Computing of Intraoperative Hyperspectral Imaging for Brain Cancer Detection Using Multi-GPU Platforms. <i>IEEE Access</i> , 2020, 8, 8485-8501.	4.2	23
13	Subthreshold Micropulse Laser in Diabetic Macular Edema: 1-Year Improvement in OCT/OCT-Angiography Biomarkers. <i>Translational Vision Science and Technology</i> , 2020, 9, 31.	2.2	23
14	Quantitative choriocapillaris evaluation in intermediate age-related macular degeneration by swept-source optical coherence tomography angiography. <i>Acta Ophthalmologica</i> , 2019, 97, e919-e926.	1.1	22
15	Real-Time Identification of Hyperspectral Subspaces. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2680-2687.	4.9	20
16	Acceleration of brain cancer detection algorithms during surgery procedures using GPUs. <i>Microprocessors and Microsystems</i> , 2018, 61, 171-178.	2.8	19
17	Antepartum Fetal Monitoring through a Wearable System and a Mobile Application. <i>Technologies</i> , 2018, 6, 44.	5.1	16
18	The Human Brain Project: Parallel technologies for biologically accurate simulation of Granule cells. <i>Microprocessors and Microsystems</i> , 2016, 47, 303-313.	2.8	15

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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