Gregorio Bernab Garca

List of Publications by Citations

36 papers	190 citations	7 h-index	12 g-index
37 ext. papers	230 ext. citations	2.2 avg, IF	2.69 L-index

#	Paper	IF	Citations
36	**2009**,		41
35	Parallel 3D fast wavelet transform on manycore GPUs and multicore CPUs. *Procedia Computer Science*, **2010**, 1, 1101-1110	1.6	22
34	The 2D wavelet transform on emerging architectures: GPUs and multicores. *Journal of Real-Time Image Processing*, **2012**, 7, 145-152	1.9	18
33	A lossy 3D wavelet transform for high-quality compression of medical video. *Journal of Systems and Software*, **2009**, 82, 526-534	3.3	10
32	Optimization Techniques for 3D-FWT on Systems with Manycore GPUs and Multicore CPUs. *Procedia Computer Science*, **2013**, 18, 319-328	1.6	8
31	Reducing 3D Fast Wavelet Transform Execution Time Using Blocking and the Streaming SIMD Extensions. *Journal of Signal Processing Systems*, **2005**, 41, 209-223		8
30	Memory conscious 3D wavelet transform		8
29	Virtual surgical tele-simulations in ophthalmology. *International Congress Series*, **2003**, 1256, 145-150		7
28	A Software Tool for the Automatic Quantification of the Left Ventricle Myocardium Hyper-trabeculation Degree. *Procedia Computer Science*, **2015**, 51, 610-619	1.6	6
27	Parallel implementations of the 3D fast wavelet transform on a Raspberry Pi 2 cluster. *Journal of Supercomputing*, **2018**, 74, 1765-1778	2.5	5
26	Tuning basic Linear Algebra Routines for Hybrid CPU+GPU Platforms. *Procedia Computer Science*, **2014**, 29, 30-39	1.6	5
25	Performance of a New Software Tool for Automatic Quantification of Left Ventricular Trabeculations. *Revista Espanola De Cardiologia (English Ed)*, **2017**, 70, 405-407	0.7	5
24	Auto-tuning techniques for linear algebra routines on hybrid platforms. *Journal of Computational Science*, **2015**, 10, 299-310	3.4	5
23	CUDA and OpenCL implementations of 3D Fast Wavelet Transform **2012**,		5
22	An efficient implementation of a 3D wavelet transform based encoder on hyper-threading technology. *Parallel Computing*, **2007**, 33, 54-72	1	5
21	Reducing 3D wavelet transform execution time through the Streaming SIMD Extensions **2003**,		5
20	A self-optimized software tool for quantifying the degree of left ventricle hyper-trabeculation. *Journal of Supercomputing*, **2019**, 75, 1625-1640	2.5	5

(2020-2013)

19	Optimizing a 3D-FWT Code in a Heterogeneous Cluster of Multicore CPUs and Manycore GPUs **2013** ,		3
18	Trabeculated Myocardium in Hypertrophic Cardiomyopathy: Clinical Consequences. *Journal of Clinical Medicine*, **2020**, 9,	5.1	3
17	A High Performance Computing Course Guided by the LU Factorization. *Procedia Computer Science*, **2014**, 29, 1446-1457	1.6	2
16	Improving an autotuning engine for 3D Fast Wavelet Transform on manycore systems. *Journal of Supercomputing*, **2014**, 70, 830-844	2.5	2
15	Optimizing a 3D-FWT video encoder for SMPs and HyperThreading architectures		2
14	A virtual surgical telesimulation in micrographic dermatologic surgery (MOHS). *International Congress Series*, **2003**, 1256, 151-155		2
13	Towards an Enhanced Tool for Quantifying the Degree of LV Hyper-Trabeculation. *Journal of Clinical Medicine*, **2021**, 10,	5.1	2
12	Exploiting Hybrid Parallelism in the Kinematic Analysis of Multibody Systems Based on Group Equations. *Procedia Computer Science*, **2017**, 108, 576-585	1.6	1
11	An Autotuning Engine for the 3D Fast Wavelet Transform on Clusters with Hybrid CPU + GPU Platforms. *International Journal of Parallel Programming*, **2015**, 43, 1160-1191	1.5	1
10	A Training Engine for Automatic Quantification of Left Ventricular Trabeculation from Cardiac MRI. *Procedia Computer Science*, **2016**, 80, 2246-2250	1.6	1
9	Deploying deep learning approaches to left ventricular non-compaction measurement. *Journal of Supercomputing*, **2021**, 77, 10138-10151	2.5	1
8	FARMIT: continuous assessment of crop quality using machine learning and deep learning techniques for IoT-based smart farming. *Cluster Computing*,1	2.1	1
7	Applying Intel�s oneAPI to a machine learning case study. *Concurrency Computation Practice and Experience*,	1.4	1
6	Left ventricular non-compaction cardiomyopathy automatic diagnosis using a deep learning approach. *Computer Methods and Programs in Biomedicine*, **2021**, 214, 106548	6.9	0
5	On the Parallelization of Stream Compaction on a Low-Cost SDC Cluster. *Scientific Programming*, **2018**, 2018, 1-10	1.4	0
4	HDNN: a cross-platform MLIR dialect for deep neural networks. *Journal of Supercomputing*,1	2.5	0
3	Rendimiento de un nuevo software para la cuantificaci� autom�ica de trabeculaciones en el ventr�ulo izquierdo. *Revista Espanola De Cardiologia*, **2017**, 70, 405-407	1.5	
2	A highly accurate method for quantifying LVNC cardiomyophaty **2020**, 2020, 223-232	0.7	

1	Performance portability in a real world application: PHAST applied to Caffe. *International Journal of High Performance Computing Applications*,109434202210771	1.8