

Rafael Sachetto Oliveira

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

436
citations

1039406

9
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43
all docs

43
docs citations

43
times ranked

507
citing authors

#	ARTICLE	IF	CITATIONS
1	G-DBSCAN: A GPU Accelerated Algorithm for Density-based Clustering. <i>Procedia Computer Science</i> , 2013, 18, 369-378.	1.2	106
2	Coordinating the use of GPU and CPU for improving performance of compute intensive applications. , 2009, , .		59
3	Performance evaluation of GPU parallelization, space-time adaptive algorithms, and their combination for simulating cardiac electrophysiology. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2913.	1.0	32
4	Ectopic beats arise from micro-reentries near infarct regions in simulations of a patient-specific heart model. <i>Scientific Reports</i> , 2018, 8, 16392.	1.6	32
5	Characterisation of Omicron Variant during COVID-19 Pandemic and the Impact of Vaccination, Transmission Rate, Mortality, and Reinfection in South Africa, Germany, and Brazil. <i>BioTech</i> , 2022, 11, 12.	1.3	23
6	Lattice Boltzmann method for parallel simulations of cardiac electrophysiology using GPUs. <i>Journal of Computational and Applied Mathematics</i> , 2016, 295, 70-82.	1.1	22
7	Simulations of Complex and Microscopic Models of Cardiac Electrophysiology Powered by Multi-GPU Platforms. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-13.	0.7	15
8	Killing Many Birds With Two Stones: Hypoxia and Fibrosis Can Generate Ectopic Beats in a Human Ventricular Model. <i>Frontiers in Physiology</i> , 2018, 9, 764.	1.3	15
9	Timing the race of vaccination, new variants, and relaxing restrictions during COVID-19 pandemic. <i>Journal of Computational Science</i> , 2022, 61, 101660.	1.5	12
10	Profiling General Purpose GPU Applications. , 2009, , .		11
11	A Transformation Tool for ODE Based Models. <i>Lecture Notes in Computer Science</i> , 2006, , 68-75.	1.0	11
12	Comparing CUDA, OpenCL and OpenGL Implementations of the Cardiac Monodomain Equations. <i>Lecture Notes in Computer Science</i> , 2012, , 111-120.	1.0	9
13	A broad genomic panel of microsatellite loci from <i>Brycon orbignyanus</i> (Characiformes: Bryconidae) an endangered migratory Neotropical fish. <i>Scientific Reports</i> , 2018, 8, 8511.	1.6	9
14	Hierarchical Density-Based Clustering Based on GPU Accelerated Data Indexing Strategy. <i>Procedia Computer Science</i> , 2016, 80, 951-961.	1.2	8
15	Diversification of <i>Prochilodus</i> in the eastern Brazilian Shield: Evidence from complete mitochondrial genomes (Teleostei, Prochilodontidae). <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2021, 59, 1053-1063.	0.6	8
16	HASCH: High Performance Automatic Spell Checker for Portuguese Texts from the Web. <i>Procedia Computer Science</i> , 2012, 9, 403-411.	1.2	7
17	The Quixotic Task of Forecasting Peaks of COVID-19: Rather Focus on Forward and Backward Projections. <i>Frontiers in Public Health</i> , 2021, 9, 623521.	1.3	7
18	Adaptive-step methods for Markov-based membrane models. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 85, 105249.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Variability in electrophysiological properties and conducting obstacles controls re-entry risk in heterogeneous ischaemic tissue. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190341.	1.6	6
20	Multi-Level Parallelism for the Cardiac Bidomain Equations. <i>International Journal of Parallel Programming</i> , 2009, 37, 572-592.	1.1	5
21	G-KNN. , 2015, , .		5
22	Exploiting Computational Resources in Distributed Heterogeneous Platforms. , 2009, , .		4
23	A parallel accelerated adaptive mesh algorithm for the solution of electrical models of the heart. <i>International Journal of High Performance Systems Architecture</i> , 2012, 4, 89.	0.2	4
24	Multi-level Parallelism in the Computational Modeling of the Heart. , 2007, , .		3
25	Evaluate of collaborative transit system to urban goods delivery: an exploratory study in Belo Horizonte (Brazil). <i>Transportation Research Procedia</i> , 2017, 25, 928-941.	0.8	3
26	Performance Comparison of Parallel Geometric and Algebraic Multigrid Preconditioners for the Bidomain Equations. <i>Lecture Notes in Computer Science</i> , 2006, , 76-83.	1.0	2
27	A Computational Framework for Cardiac Modeling Based on Distributed Computing and Web Applications. <i>Lecture Notes in Computer Science</i> , 2007, , 544-555.	1.0	2
28	An Adaptive Mesh Algorithm for the Numerical Solution of Electrical Models of the Heart. <i>Lecture Notes in Computer Science</i> , 2012, , 649-664.	1.0	2
29	Efficient dynamic scheduling of heterogeneous applications in hybrid architectures. , 2014, , .		1
30	First complete mitochondrial genome for any anostomid fish: <i>Leporinus piauussu</i> , a recently described piracema species. <i>Mitochondrial DNA</i> , 2016, 27, 1-2.	0.6	1
31	Evaluating Dynamic Scheduling of Tasks in Mobile Architectures Using ParallelME Framework. <i>Lecture Notes in Computer Science</i> , 2018, , 744-751.	1.0	1
32	Calibration of single-cell model parameters based on membrane resistance improves the accuracy of cardiac tissue simulations. <i>Journal of Computational Science</i> , 2021, 53, 101375.	1.5	1
33	Reactive Interstitial and Reparative Fibrosis as Substrates for Cardiac Ectopic Pacemakers and Reentries. <i>Lecture Notes in Computer Science</i> , 2016, , 346-357.	1.0	1
34	Use of software to guide the management of intraoperative hemodynamic instability. <i>Brazilian Journal of Anesthesiology (Elsevier)</i> , 2021, , .	0.2	1
35	Improving the Performance of Cardiac Simulations in a Multi-GPU Architecture Using a Coalesced Data and Kernel Scheme. <i>Lecture Notes in Computer Science</i> , 2016, , 546-553.	1.0	0
36	A Framework for Direct and Transparent Data Exchange of Filter-stream Applications in Multi-GPUs Architectures. <i>Procedia Computer Science</i> , 2017, 108, 1642-1651.	1.2	0

#	ARTICLE	IF	CITATIONS
37	Data Flow Frameworks for Emerging Heterogeneous Architectures and Their Application to Biomedicine. Chapman & Hall/CRC Computational Science, 2010, , 375-392.	0.5	0
38	Escalonamento Dinâmico Eficiente em Arquiteturas Híbridas. , 0, , .		0
39	Functional DNA annotation from a preliminary de novo genome assembly of Brycon orbignyanus, an endangered Neotropical migratory fish. Latin American Data in Science, 2021, 1, 42-48.	0.2	0
40	Genomic Resources for Salminus brasiliensis. Frontiers in Genetics, 2022, 13, 855718.	1.1	0