Luisa Carracciuolo

List of Publications by Year
in descending order

30 papers	228 citations	1307543 7 h-index	1199563 12 g-index
32 all docs	32 docs citations	32 times ranked	133 citing authors

#	Article	IF	Citations
1	A Scalable Approach for Variational Data Assimilation. Journal of Scientific Computing, 2014, 61, 239-257.	2.3	28
2	A Decomposition of the Tikhonov Regularization Functional Oriented to Exploit Hybrid Multilevel Parallelism. International Journal of Parallel Programming, 2017, 45, 1214-1235.	1.5	20
3	Towards a parallel component for imaging in PETSc programming environment: a case study in 3-D echocardiography. Parallel Computing, 2006, 32, 67-83.	2.1	18
4	Monitoring and Migration of a PETSc-based Parallel Application for Medical Imaging in a Grid computing PSE. , 2007, , 421-432.		17
5	On the problem-decomposition of scalable 4D-Var Data Assimilation models. , 2015, , .		16
6	Total Variation Regularization for Edge Preserving 3D SPECT Imaging in High Performance Computing Environments. Lecture Notes in Computer Science, 2002, , 171-180.	1.3	16
7	HADAB: Enabling Fault Tolerance in Parallel Applications Running in Distributed Environments. Lecture Notes in Computer Science, 2012, , 700-709.	1.3	16
8	MedIGrid: a medical imaging application for computational Grids. , 0, , .		13
9	DD-OceanVar: A Domain Decomposition Fully Parallel Data Assimilation Software for the Mediterranean Forecasting System. Procedia Computer Science, 2013, 18, 1235-1244.	2.0	13
10	An Approach to Forecast Queue Time in Adaptive Scheduling: How to Mediate System Efficiency and Users Satisfaction. International Journal of Parallel Programming, 2017, 45, 1164-1193.	1.5	8
11	Toward a fully parallel multigrid in time algorithm in PETSc environment: A case study in ocean models. , 2015, , .		7
12	High performance edge-preserving regularization in 3D SPECT imaging. Parallel Computing, 2008, 34, 115-132.	2.1	6
13	Computational simulations of 3D large-scale time-dependent viscoelastic flows in high performance computing environment. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1382-1395.	2.4	6
14	A PETSc parallelâ€inâ€time solver based on MGRIT algorithm. Concurrency Computation Practice and Experience, 2018, 30, e4928.	2.2	6
15	Modelling the Behaviour of an Adaptive Scheduling Controller. , 2012, , .		5
16	Implementation of a nonâ€linear solver on heterogeneous architectures. Concurrency Computation Practice and Experience, 2018, 30, e4903.	2.2	5
17	About the granularity portability of blockâ€based Krylov methods in heterogeneous computing environments. Concurrency Computation Practice and Experience, 2021, 33, .	2.2	5
18	Performance Evaluation for a PETSc Parallel-in-Time Solver Based on the MGRIT Algorithm. Lecture Notes in Computer Science, 2019, , 716-728.	1.3	4

#	Article	IF	Citations
19	A Scalable Space-Time Domain Decomposition Approach for Solving Large Scale Nonlinear Regularized Inverse Ill Posed Problems in 4D Variational Data Assimilation. Journal of Scientific Computing, 2022, 91, 1.	2.3	4
20	Toward a Flexible, Environmentally Conscious, on Demand High Performance Computing Service. , 2011, , .		3
21	Insertion of PETSc in the NEMO stack software driving NEMO towards exascale computing. , 2014, , .		3
22	The HPC Testbed of the Italian Grid Infrastructure. , 2013, , .		2
23	MEDITOMO: a high performance software package for 3D SPECT imaging. International Journal of Computer Mathematics, 2009, 86, 31-56.	1.8	1
24	ECCO: An Integrated Solution for Environment Compatible COmputing Systems. , 2014, , .		1
25	SCoPE@Scuola: (In)-formative Paths on Topics Related with High Performance, Parallel andÂDistributed Computing. Lecture Notes in Computer Science, 2018, , 191-202.	1.3	1
26	FWPT filtering properties. , 0, , .		0
27	<title>Fast wavelet packet transform-based algorithm for numerical solution of image restoration problems in a parallel environment</title>. , 1998, , .		0
28	The MedIGrid PSE in an LCG/gLite environment. , 2008, , .		0
29	Parallel scientific computing environment for adaptive optic simulations. International Journal of Computer Mathematics, 2009, 86, 373-381.	1.8	0
30	Scalability Analysis of Variational Data Assimilation Algorithms on Hybrid Architectures. , 2017, , 391-398.		0