

Salvatore Cuomo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

1,164
citations

19
h-index

27
g-index

155
ext. papers

1,470
ext. citations

3
avg, IF

5.37
L-index

#	Paper	IF	Citations
130	An unsupervised learning framework for marketneutral portfolio. <i>Expert Systems With Applications</i> , 2022 , 192, 116308	7.8	0
129	A machine learning-enhanced biosensor for mercury detection based on an hydrophobin chimera. <i>Biosensors and Bioelectronics</i> , 2022 , 196, 113696	11.8	3
128	Remarks on the numerical approximation of Dirac delta functions. <i>Results in Applied Mathematics</i> , 2021 , 12, 100200	1.7	1
127	An Efficient Localized Meshless Method Based on the SpaceTime Gaussian RBF for High-Dimensional Space Fractional Wave and Damped Equations. <i>Axioms</i> , 2021 , 10, 259	1.6	
126	Precision medicine and machine learning towards the prediction of the outcome of potential celiac disease. <i>Scientific Reports</i> , 2021 , 11, 5683	4.9	5
125	Solving 3-D GrayScott Systems with Variable Diffusion Coefficients on Surfaces by Closest Point Method with RBF-FD. <i>Mathematics</i> , 2021 , 9, 924	2.3	0
124	The Role of Artificial Intelligence in Fighting the COVID-19 Pandemic. <i>Information Systems Frontiers</i> , 2021 , 1-31	4	23
123	Predictive Analytics for Smart Parking: A Deep Learning Approach in Forecasting of IoT Data. <i>ACM Transactions on Internet Technology</i> , 2021 , 21, 1-21	3.8	9
122	EEG signal analysis for epileptic seizures detection by applying Data Mining techniques. <i>Internet of Things (Netherlands)</i> , 2021 , 14, 100048	6.9	10
121	Data analysis and mining of traffic features based on taxi GPS trajectories: A case study in Beijing. <i>Concurrency Computation Practice and Experience</i> , 2021 , 33, e5332	1.4	6
120	A generic paradigm for mining human mobility patterns based on the GPS trajectory data using complex network analysis. <i>Concurrency Computation Practice and Experience</i> , 2021 , 33, e5335	1.4	1
119	A virtual assistant in cultural heritage scenarios. <i>Concurrency Computation Practice and Experience</i> , 2021 , 33, e5331	1.4	3
118	A survey on deep learning in medicine: Why, how and when?. <i>Information Fusion</i> , 2021 , 66, 111-137	16.7	65
117	An analytic framework using deep learning for prediction of traffic accident injury severity based on contributing factors. <i>Accident Analysis and Prevention</i> , 2021 , 160, 106322	6.1	5
116	Julia language in machine learning: Algorithms, applications, and open issues. <i>Computer Science Review</i> , 2020 , 37, 100254	8.3	12
115	Effects of spatial decomposition on the efficiency of kNN search in spatial interpolationsA short and preliminary version of this paper has been published in the Proceeding of 24th International European Conference on Parallel and Distributed Computing.View all notes. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2020 , 1-19	1	
114	RBF methods in a Stochastic Volatility framework for Greeks computation. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 380, 112987	2.4	1

113	Comparative investigation of GPU-accelerated triangle-triangle intersection algorithms for collision detection. <i>Multimedia Tools and Applications</i> , 2020 , 1	2.5	2
112	A note on the numerical resolution of Heston PDEs. <i>Ricerche Di Matematica</i> , 2020 , 69, 501-508	0.9	
111	Greeks computation in the option pricing problem by means of RBF-PU methods. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 376, 112882	2.4	4
110	Uncertainty Quantification of Unsteady Flows Generated by Line-Sources Through Heterogeneous Geological Formations. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2020 , 8, 807-825	1.8	2
109	Special issue on video and imaging systems for critical engineering applications [SI 1096]. <i>Multimedia Tools and Applications</i> , 2020 , 79, 8327-8335	2.5	1
108	Unsupervised learning on multimedia data: a Cultural Heritage case study. <i>Multimedia Tools and Applications</i> , 2020 , 79, 34429-34442	2.5	2
107	Path prediction in IoT systems through Markov Chain algorithm. <i>Future Generation Computer Systems</i> , 2020 , 109, 210-217	7.5	6
106	A network-based method with privacy-preserving for identifying influential providers in large healthcare service systems. <i>Future Generation Computer Systems</i> , 2020 , 109, 293-305	7.5	12
105	Data Science for the Internet of Things. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 4342-4346	10.7	4
104	A Travelling Wave Solution for Nonlinear Colloid Facilitated Mass Transport in Porous Media. <i>Lecture Notes in Computer Science</i> , 2020 , 103-108	0.9	
103	Adaptive RBF Interpolation for Estimating Missing Values in Geographical Data. <i>Lecture Notes in Computer Science</i> , 2020 , 122-130	0.9	1
102	A Procedure for Laplace Transform Inversion Based on Smoothing Exponential-Polynomial Splines. <i>Lecture Notes in Computer Science</i> , 2020 , 11-18	0.9	1
101	Computational error bounds for Laplace transform inversion based on smoothing splines. <i>Applied Mathematics and Computation</i> , 2020 , 383, 125376	2.7	3
100	Decision Making in IoT Environment through Unsupervised Learning. <i>IEEE Intelligent Systems</i> , 2020 , 35, 27-35	4.2	37
99	ARBF: adaptive radial basis function interpolation algorithm for irregularly scattered point sets. <i>Soft Computing</i> , 2020 , 24, 17693-17704	3.5	6
98	A deep learning approach for facility patient attendance prediction based on medical booking data. <i>Scientific Reports</i> , 2020 , 10, 14623	4.9	4
97	Pricing estimation of a barrier option in an IoT scenario. <i>Future Generation Computer Systems</i> , 2020 , 110, 407-412	7.5	4
96	A computational method for the European option price in an Internet of Things framework. <i>Future Generation Computer Systems</i> , 2020 , 107, 730-735	7.5	6

95	Lessons learned from longitudinal modeling of mobile-equipped visitors in a complex museum. <i>Neural Computing and Applications</i> , 2020 , 32, 7785-7801	4.8	7
94	CudaCHPre2D: A straightforward preprocessing approach for accelerating 2D convex hull computations on the GPU. <i>Concurrency Computation Practice and Experience</i> , 2020 , 32, e5229	1.4	1
93	Comparison of Estimating Missing Values in IoT Time Series Data Using Different Interpolation Algorithms. <i>International Journal of Parallel Programming</i> , 2020 , 48, 534-548	1.5	14
92	Exploring Unsupervised Learning Techniques for the Internet of Things. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2621-2628	11.9	35
91	A stable meshfree PDE solver for source-type flows in porous media. <i>Applied Numerical Mathematics</i> , 2020 , 149, 30-42	2.5	7
90	A machine learning approach for IoT cultural data. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 1	3.7	29
89	A simple and generic paradigm for creating complex networks using the strategy of vertex selecting-and-pairing. <i>Future Generation Computer Systems</i> , 2019 , 100, 994-1004	7.5	5
88	On a Class of Integrals Useful to Solve Well-Type Flows in Heterogeneous Porous Formations. <i>Water Resources Research</i> , 2019 , 55, 5147	5.4	2
87	A numerical scheme for solving a class of logarithmic integral equations arisen from two-dimensional Helmholtz equations using local thin plate splines. <i>Applied Mathematics and Computation</i> , 2019 , 356, 157-172	2.7	4
86	Effect of Spatial Decomposition on the Efficiency of k Nearest Neighbors Search in Spatial Interpolation. <i>Lecture Notes in Computer Science</i> , 2019 , 667-679	0.9	
85	Serious Games and In-Cloud Data Analytics for the Virtualization and Personalization of Rehabilitation Treatments. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 517-526	11.9	7
84	Remarks of Social Data Mining Applications in the Internet of Data. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2019 , 944-951	0.4	
83	Efficient method for identifying influential vertices in dynamic networks using the strategy of local detection and updating. <i>Future Generation Computer Systems</i> , 2019 , 91, 10-24	7.5	12
82	The numerical solution of fractional differential equations using the Volterra integral equation method based on thin plate splines. <i>Engineering With Computers</i> , 2019 , 35, 1391-1408	4.5	8
81	A GPU-accelerated parallel K-means algorithm. <i>Computers and Electrical Engineering</i> , 2019 , 75, 262-274	4.3	19
80	A class of universal approximators of real continuous functions revisited. <i>Ricerche Di Matematica</i> , 2018 , 67, 729-738	0.9	
79	A predictive Decision Support System (DSS) for a microalgae production plant based on Internet of Things paradigm. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4476	1.4	9
78	Nonlinear Galerkin methods for a system of PDEs with Turing instabilities. <i>Calcolo</i> , 2018 , 55, 1	1.5	1

77	. <i>IEEE Access</i> , 2018 , 6, 4720-4724	3.5	5
76	Performance Evaluation of GPU-Accelerated Spatial Interpolation Using Radial Basis Functions for Building Explicit Surfaces. <i>International Journal of Parallel Programming</i> , 2018 , 46, 963-991	1.5	11
75	Parallel Implementation of a Machine Learning Algorithm on GPU. <i>International Journal of Parallel Programming</i> , 2018 , 46, 923-942	1.5	2
74	An application of the one-factor HullWhite model in an IoT financial scenario. <i>Sustainable Cities and Society</i> , 2018 , 38, 18-20	10.1	9
73	MeshCleaner: A Generic and Straightforward Algorithm for Cleaning Finite Element Meshes. <i>International Journal of Parallel Programming</i> , 2018 , 46, 565-583	1.5	4
72	Implications of deep learning for the automation of design patterns organization. <i>Journal of Parallel and Distributed Computing</i> , 2018 , 117, 256-266	4.4	29
71	Reproducing dynamics related to an Internet of Things framework: A numerical and statistical approach. <i>Journal of Parallel and Distributed Computing</i> , 2018 , 118, 359-368	4.4	9
70	Accelerating multi-dimensional interpolation using moving least-squares on the GPU. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4904	1.4	6
69	On GPU CUDA as preprocessing of fuzzy-rough data reduction by means of singular value decomposition. <i>Soft Computing</i> , 2018 , 22, 1525-1532	3.5	5
68	Harnessing sliding-window execution semantics for parallel stream processing. <i>Journal of Parallel and Distributed Computing</i> , 2018 , 116, 74-88	4.4	9
67	A GPU parallel optimised blockwise NLM algorithm in a distributed computing system. <i>International Journal of High Performance Computing and Networking</i> , 2018 , 11, 304	1	1
66	A (multi) GPU iterative reconstruction algorithm based on Hessian penalty term for sparse MRI. <i>International Journal of Grid and Utility Computing</i> , 2018 , 9, 139	1.1	5
65	Traditional and Deep Learning Approaches to Information and Influence Propagation in Social Networks 2018 ,		2
64	Data-Driven Approaches to Predict States in a Food Technology Case Study 2018 ,		2
63	Social network data analysis and mining applications for the Internet of Data. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4527	1.4	3
62	An inverse Bayesian scheme for the denoising of ECG signals. <i>Journal of Network and Computer Applications</i> , 2018 , 115, 48-58	7.9	4
61	Reconstruction of implicit curves and surfaces via RBF interpolation. <i>Applied Numerical Mathematics</i> , 2017 , 116, 157-171	2.5	32
60	IoT-based collaborative reputation system for associating visitors and artworks in a cultural scenario. <i>Expert Systems With Applications</i> , 2017 , 79, 101-111	7.8	69

59	Enabling multimedia aware vertical handover Management in Internet of Things based heterogeneous wireless networks. <i>Multimedia Tools and Applications</i> , 2017 , 76, 25919-25941	2.5	26
58	A computational scheme to predict dynamics in IoT systems by using particle filter. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e4101	1.4	11
57	A parallel PDE-based numerical algorithm for computing the Optical Flow in hybrid systems. <i>Journal of Computational Science</i> , 2017 , 22, 228-236	3.4	7
56	On the Longitudinal Dispersion in Conservative Transport Through Heterogeneous Porous Formations at Finite Peclet Numbers. <i>Water Resources Research</i> , 2017 , 53, 8614-8625	5.4	3
55	Remarks on a financial inverse problem by means of Monte Carlo Methods. <i>Journal of Physics: Conference Series</i> , 2017 , 904, 012012	0.3	2
54	Numerical approaches to model perturbation fire in turing pattern formations 2017 ,		1
53	Modification of TV-ROF denoising model based on Split Bregman iterations. <i>Applied Mathematics and Computation</i> , 2017 , 315, 453-467	2.7	7
52	Analysis of a data-flow in a financial IoT system. <i>Procedia Computer Science</i> , 2017 , 113, 508-512	1.6	2
51	Remarks on a computational estimator for the barrier option pricing in an IoT scenario. <i>Procedia Computer Science</i> , 2017 , 113, 513-518	1.6	6
50	Numerical Effects of the Gaussian Recursive Filters in Solving Linear Systems in the 3Dvar Case Study. <i>Numerical Mathematics</i> , 2017 , 10, 520-540	1.5	9
49	GPU Profiling of Singular Value Decomposition in OLPCA Method for Image Denoising. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2017 , 707-716	0.4	2
48	IoT application for the estimation of option price. <i>International Journal of Internet Technology and Secured Transactions</i> , 2017 , 7, 21	0.6	
47	Data mining techniques for vestibular data classification. <i>International Journal of Internet Technology and Secured Transactions</i> , 2017 , 7, 51	0.6	2
46	Handling Uncertainty in Clustering Art-Exhibition Visiting Styles. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 54-63	0.2	
45	A GPU parallel implementation of the Local Principal Component Analysis overcomplete method for DW image denoising 2016 ,		9
44	A novel Split Bregman algorithm for MRI denoising task in an e-Health system 2016 ,		3
43	Mimic Visiting Styles by Using a Statistical Approach in a Cultural Event Case Study. <i>Procedia Computer Science</i> , 2016 , 98, 449-454	1.6	6
42	A Stochastic Method for Financial IoT Data. <i>Procedia Computer Science</i> , 2016 , 98, 491-496	1.6	7

41	Some error bounds for K-iterated Gaussian recursive filters 2016 ,		2
40	Computational issues in linear multistep method particle filtering 2016 ,		1
39	A second order derivative scheme based on Bregman algorithm class 2016 ,		3
38	A revised scheme for real time ECG Signal denoising based on recursive filtering. <i>Biomedical Signal Processing and Control</i> , 2016 , 27, 134-144	4.9	42
37	Classify Visitor Behaviours in a Cultural Heritage Exhibition. <i>Communications in Computer and Information Science</i> , 2016 , 17-28	0.3	5
36	Influence of Some Parameters on Visiting Style Classification in a Cultural Heritage Case Study. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 567-576	0.5	6
35	Local principal component analysis overcomplete method: A GPU parallel implementation combining shared and global memories 2016 ,		2
34	Numerical Remarks on the Estimation of the Option Price 2016 ,		2
33	A GPU-Parallel Algorithm for ECG Signal Denoising Based on the NLM Method 2016 ,		9
32	Applying Mining Techniques to Analyze Vestibular Data. <i>Procedia Computer Science</i> , 2016 , 98, 467-472	1.6	4
31	A Numerical Approach for Assigning a Reputation to Users of an IoT Framework. <i>Procedia Computer Science</i> , 2016 , 98, 455-460	1.6	
30	A revised scheme to compute horizontal covariances in an oceanographic 3D-VAR assimilation system. <i>Journal of Computational Physics</i> , 2015 , 284, 631-647	4.1	24
29	Parallel Tools for Simulating the Depolarization Block on a Neural Model. <i>Procedia Computer Science</i> , 2015 , 51, 745-754	1.6	1
28	Toward a Multi-level Parallel Framework on GPU Cluster with PetSC-CUDA for PDE-based Optical Flow Computation. <i>Procedia Computer Science</i> , 2015 , 51, 170-179	1.6	14
27	A Novel O(n) Numerical Scheme for ECG Signal Denoising. <i>Procedia Computer Science</i> , 2015 , 51, 775-784	1.6	20
26	Piecewise Hermite interpolation via barycentric coordinates. <i>Ricerche Di Matematica</i> , 2015 , 64, 303-319	0.9	18
25	A GPU Algorithm in a Distributed Computing System for 3D MRI Denoising 2015 ,		8
24	A K-iterated scheme for the first-order Gaussian recursive filter with boundary conditions 2015 ,		7

23	A Cultural Heritage Case Study of Visitor Experiences Shared on a Social Network 2015 ,		25
22	Visiting Styles in an Art Exhibition Supported by a Digital Fruition System 2015 ,		12
21	A framework for ECG denoising for mobile devices 2015 ,		4
20	Visitor Dynamics in a Cultural Heritage Scenario 2015 ,		11
19	Validation Approaches for a Biological Model Generation Describing Visitor Behaviours in a Cultural Heritage Scenario. <i>Communications in Computer and Information Science</i> , 2015 , 154-168	0.3	4
18	Effects of increasing CREB-dependent transcription on the storage and recall processes in a hippocampal CA1 microcircuit. <i>Hippocampus</i> , 2014 , 24, 165-77	3.5	23
17	A Biologically Inspired Model for Analyzing Behaviours in Social Network Community and Cultural Heritage Scenario 2014 ,		5
16	A class of piecewise interpolating functions based on barycentric coordinates. <i>Ricerche Di Matematica</i> , 2014 , 63, 87-102	0.9	15
15	3D data denoising via Nonlocal Means filter by using parallel GPU strategies. <i>Computational and Mathematical Methods in Medicine</i> , 2014 , 2014, 523862	2.8	33
14	A Clustering-based Approach for a Finest Biological Model Generation Describing Visitor Behaviours in a Cultural Heritage Scenario 2014 ,		6
13	A Regularized MRI Image Reconstruction based on Hessian Penalty Term on CPU/GPU Systems. <i>Procedia Computer Science</i> , 2013 , 18, 2643-2646	1.6	24
12	Some numerical enhancements in a data assimilation scheme 2013 ,		2
11	A Performance Evaluation of A Parallel Biological Network Microcircuit in Neuron. <i>International Journal of Distributed and Parallel Systems</i> , 2013 , 4, 15-31	0.5	3
10	Slide Test Maker An Educational Software Tool for Test Composition. <i>Lecture Notes in Computer Science</i> , 2012 , 249-257	0.9	
9	On best constants in Hardy inequalities with a remainder term. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011 , 74, 5784-5792	1.3	1
8	A numerical approach to nonlinear two-point boundary value problems for ODEs. <i>Computers and Mathematics With Applications</i> , 2008 , 55, 2476-2489	2.7	27
7	An adaptive threshold algorithm for detection of pulse radar signals 2008 ,		1
6	A Modification of Weeks's Method for Numerical Inversion of the Laplace Transform in the Real Case Based on Automatic Differentiation. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 45-54	0.3	4

5	Computation of the inverse Laplace transform based on a collocation method which uses only real values. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 198, 98-115	2.4	23
4	Error analysis of a Collocation method for numerically inverting a Laplace transform in case of real samples. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 210, 149-158	2.4	6
3	Numerical regularization of a real inversion formula based on the Laplace transform's eigenfunction expansion of the inverse function. <i>Inverse Problems</i> , 2007 , 23, 713-731	2.3	19
2	A novel triangle-based method for scattered data interpolation. <i>Applied Mathematical Sciences</i> , 8 , 6717-6734	3.4	11
1	An error estimate of Gaussian Recursive Filter in 3Dvar problem		5