

# Geoffrey Fox

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7668225/publications.pdf>

Version: 2024-02-01

47  
papers

587  
citations

1039406

9  
h-index

887659

17  
g-index

49  
all docs

49  
docs citations

49  
times ranked

406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Production Serverless Computing Environments. , 2018, , .		99
2	Scientific machine learning benchmarks. Nature Reviews Physics, 2022, 4, 413-420.	11.9	43
3	iSERVO: Implementing the International Solid Earth Research Virtual Observatory by Integrating Computational Grid and Geographical Information Web Services. Pure and Applied Geophysics, 2006, 163, 2281-2296.	0.8	33
4	A parallel clustering method combined information bottleneck theory and centroid-based clustering. Journal of Supercomputing, 2014, 69, 452-467.	2.4	31
5	Machine learning surrogates for molecular dynamics simulations of soft materials. Journal of Computational Science, 2020, 42, 101107.	1.5	31
6	Nowcasting Earthquakes by Visualizing the Earthquake Cycle with Machine Learning: A Comparison of Two Methods. Surveys in Geophysics, 2022, 43, 483-501.	2.1	30
7	Learning Everywhere: Pervasive Machine Learning for Effective High-Performance Computation. , 2019, , .		28
8	Nowcasting Earthquakes: Imaging the Earthquake Cycle in California With Machine Learning. Earth and Space Science, 2021, 8, e2021EA001757.	1.1	27
9	Automatic Ice Surface and Bottom Boundaries Estimation in Radar Imagery Based on Level-Set Approach. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5115-5122.	2.7	24
10	Service oriented architecture for VoIP conferencing. International Journal of Communication Systems, 2006, 19, 445-461.	1.6	17
11	Message-based cellular peer-to-peer grids: foundations for secure federation and autonomic services. Future Generation Computer Systems, 2005, 21, 401-415.	4.9	16
12	Twister2: Design of a big data toolkit. Concurrency Computation Practice and Experience, 2020, 32, e5189.	1.4	14
13	Deep Hybrid Wavelet Network for Ice Boundary Detection in Radra Imagery. , 2018, , .		12
14	Twister2: TSet High-Performance Iterative Dataflow. , 2019, , .		12
15	Low Latency Stream Processing. , 2017, , .		10
16	Task Scheduling in Big Data - Review, Research Challenges, and Prospects. , 2017, , .		10
17	Twister:Net - Communication Library for Big Data Processing in HPC and Cloud Environments. , 2018, , .		10
18	High Performance Data Engineering Everywhere. , 2020, , .		10

#	ARTICLE	IF	CITATIONS
19	Scientific Image Restoration Anywhere. , 2019, , .		9
20	HP Java: Programming Support for High-Performance Grid-Enabled Applications. International Journal of Parallel, Emergent and Distributed Systems, 2004, 19, 175-193.	0.4	8
21	Data Engineering for HPC with Python. , 2020, , .		8
22	Components and Rationale of a Big Data Toolkit Spanning HPC, Grid, Edge and Cloud Computing. , 2017, , .		6
23	Automated Ice-Bottom Tracking of 2D and 3D Ice Radar Imagery Using Viterbi and TRW-S. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 3272-3285.	2.3	6
24	Learning Everywhere: A Taxonomy for the Integration of Machine Learning and Simulations. , 2019, , .		5
25	FURY: advanced scientific visualization. Journal of Open Source Software, 2021, 6, 3384.	2.0	5
26	Earthquake Nowcasting with Deep Learning. GeoHazards, 2022, 3, 199-226.	0.8	5
27	QuakeSim and the Solid Earth Research Virtual Observatory. Pure and Applied Geophysics, 2006, 163, 2263-2279.	0.8	4
28	Runtime support for scalable programming in Java. Journal of Supercomputing, 2008, 43, 165-182.	2.4	4
29	Performance Optimization on Model Synchronization in Parallel Stochastic Gradient Descent Based SVM. , 2019, , .		4
30	Advances in big data programming, system software and HPC convergence. Journal of Supercomputing, 2019, 75, 489-493.	2.4	4
31	Stochastic gradient descentâ€based support vector machines training optimization on Big Data and HPC frameworks. Concurrency Computation Practice and Experience, 2022, 34, e6292.	1.4	4
32	Performance of a possible Grid message infrastructure. Concurrency Computation Practice and Experience, 2005, 17, 193-214.	1.4	3
33	DEM extraction of the basal topography of the Canadian archipelago ICE caps via 2D automated layer-tracker. , 2017, , .		3
34	Big Data Benchmarks of High-Performance Storage Systems on Commercial Bare Metal Clouds. , 2019, , .		3
35	A Fast, Scalable, Universal Approach For Distributed Data Aggregations. , 2020, , .		3
36	Crossover analysis and automated layer-tracking assessment of the extracted DEM of the basal topography of the canadian arctic archipelago ice-cap. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
37	Understanding ML Driven HPC: Applications and Infrastructure. , 2019, , .		2
38	Linking clinotypes to phenotypes and genotypes from laboratory test results in comprehensive physical exams. BMC Medical Informatics and Decision Making, 2021, 21, 51.	1.5	2
39	Contributions to High-Performance Big Data Computing. Advances in Parallel Computing, 2019, , .	0.3	2
40	Computational Earthquake Science. Computing in Science and Engineering, 2012, 14, 7-9.	1.2	1
41	Deep Learning Approaches to Surrogates for Solving the Diffusion Equation for Mechanistic Real-World Simulations. Frontiers in Physiology, 2021, 12, 667828.	1.3	1
42	Twister2 Crossâ€platform resource scheduler for big data. Concurrency Computation Practice and Experience, 0, , e6502.	1.4	1
43	High Performance Computing: From Deep Learning to Data Engineering. , 2020, , .		1
44	Highâ€performance iterative dataflow abstractions in Twister2:TSet. Concurrency Computation Practice and Experience, 2022, 34, e5998.	1.4	1
45	Java Technologies for Realâ€Time and Embedded Systems (JTRES2013). Concurrency Computation Practice and Experience, 2017, 29, e4089.	1.4	0
46	Special issue on 12th international workshop on Java technologies for realâ€time and embedded systems (JTRES2014). Concurrency Computation Practice and Experience, 2017, 29, e4353.	1.4	0
47	HPBDC 2018 Keynote. , 2018, , .		0