

Vassil N Alexandrov

List of Publications by Year in descending order

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63
papers

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933264

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68
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68
docs citations

68
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Usability of Markov Chain Monte Carlo Preconditioners in Practical Problems. , 2021, , .		0
2	Parallel RMCLP Classification Algorithm and Its Application on the Medical Data. IEEE Transactions on Cloud Computing, 2020, 8, 532-538.	3.1	3
3	Orlando Tools: Development, Training, and Use of Scalable Applications in Heterogeneous Distributed Computing Environments. Communications in Computer and Information Science, 2019, , 265-279.	0.4	2
4	On Monte Carlo and Quasi-Monte Carlo for Matrix Computations. Lecture Notes in Computer Science, 2018, , 249-257.	1.0	1
5	Territorial design optimization for business sales plan. Journal of Computational and Applied Mathematics, 2018, 340, 501-507.	1.1	6
6	On Advanced Monte Carlo Methods for Linear Algebra on Advanced Accelerator Architectures. , 2018, , .		2
7	News clustering based on similarity analysis. Procedia Computer Science, 2017, 122, 715-719.	1.2	12
8	On the Monte Carlo Matrix Computations on Intel MIC Architecture. Cybernetics and Information Technologies, 2017, 17, 49-59.	0.4	4
9	On Monte Carlo Hybrid Methods for Linear Algebra. , 2016, , .		1
10	Psychological Warfare Analysis Using Network Science Approach. Procedia Computer Science, 2016, 80, 1856-1864.	1.2	3
11	On the Performance, Scalability and Sensitivity Analysis of a Large Air Pollution Model. Procedia Computer Science, 2016, 80, 2053-2061.	1.2	1
12	Comparing Electoral Campaigns by Analysing Online Data. Procedia Computer Science, 2016, 80, 1865-1874.	1.2	3
13	A Stochastic Approach to Solving Bilevel Natural Gas Cash-Out Problems. Procedia Computer Science, 2016, 80, 1875-1886.	1.2	2
14	Using Ontology Engineering Methods to Improve Computer Science and Data Science Skills. Procedia Computer Science, 2016, 80, 1780-1790.	1.2	13
15	Route to exascale: Novel mathematical methods, scalable algorithms and Computational Science skills. Journal of Computational Science, 2016, 14, 1-4.	1.5	5
16	Energy Study of Monte Carlo and Quasi-Monte Carlo Algorithms for Solving Integral Equations. Procedia Computer Science, 2016, 80, 1897-1905.	1.2	0
17	On efficient Monte Carlo preconditioners and hybrid Monte Carlo methods for linear algebra. , 2015, , .		0
18	Discovering Most Significant News Using Network Science Approach. Procedia Computer Science, 2015, 51, 1811-1817.	1.2	2

#	ARTICLE	IF	CITATIONS
19	Preparing input data for sensitivity analysis of an air pollution model by using high-performance supercomputers and algorithms. <i>Computers and Mathematics With Applications</i> , 2015, 70, 2773-2782.	1.4	2
20	Towards Understanding Uncertainty in Cloud Computing Resource Provisioning. <i>Procedia Computer Science</i> , 2015, 51, 1772-1781.	1.2	79
21	Computational Science Research Methods for Science Education at PG Level. <i>Procedia Computer Science</i> , 2015, 51, 1685-1693.	1.2	10
22	Towards Monte Carlo preconditioning approach and hybrid Monte Carlo algorithms for Matrix Computations. <i>Computers and Mathematics With Applications</i> , 2015, 70, 2709-2718.	1.4	6
23	A Framework for Parallel Genetic Algorithms for Distributed Memory Architectures. , 2014, , .		0
24	Automating fault tolerance in high-performance computational biological jobs using multi-agent approaches. <i>Computers in Biology and Medicine</i> , 2014, 48, 28-41.	3.9	4
25	Scalable Stochastic and Hybrid Methods and Algorithms for Extreme Scale Computing. <i>Procedia Computer Science</i> , 2014, 29, 1888-1892.	1.2	1
26	Parallel Regularized Multiple-criteria Linear Programming. <i>Procedia Computer Science</i> , 2014, 31, 58-65.	1.2	2
27	Enhancing Monte Carlo Preconditioning Methods for Matrix Computations. <i>Procedia Computer Science</i> , 2014, 29, 1580-1589.	1.2	6
28	Towards scalable mathematics and scalable algorithms for extreme scale computing. <i>Journal of Computational Science</i> , 2013, 4, iii-v.	1.5	4
29	Facilitating analysis of Monte Carlo dense matrix inversion algorithm scaling behaviour through simulation. <i>Journal of Computational Science</i> , 2013, 4, 473-479.	1.5	4
30	Quantifying Uncertainty in Phylogenetic Studies of the Slavonic Languages. <i>Procedia Computer Science</i> , 2013, 18, 2269-2277.	1.2	2
31	On scalability behaviour of Monte Carlo sparse approximate inverse for matrix computations. , 2013, , .		6
32	The Role of Computational Science and Emerging Technologies in the Natural Sciences Education at University Level. <i>Procedia Computer Science</i> , 2012, 9, 1789-1798.	1.2	2
33	Parallel genetic algorithms for stock market trading rules. <i>Procedia Computer Science</i> , 2012, 9, 1306-1313.	1.2	21
34	CAN AGENT INTELLIGENCE BE USED TO ACHIEVE FAULT TOLERANT PARALLEL COMPUTING SYSTEMS?. <i>Parallel Processing Letters</i> , 2011, 21, 379-396.	0.4	4
35	Is Virtual Reality a Memorable Experience in an Educational Context?. <i>International Journal of Emerging Technologies in Learning</i> , 2011, 6, 53-57.	0.8	18
36	Investigating scaling behaviour of monte carlo codes for dense matrix inversion. , 2011, , .		1

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37	Implementing intelligent cores using processor virtualization for fault tolerance. <i>Procedia Computer Science</i> , 2010, 1, 2197-2205.	1.2	2
38	Selection methods for interactive creation and management of objects in 3D immersive environments. <i>Procedia Computer Science</i> , 2010, 1, 2609-2617.	1.2	8
39	An MPI-based implementation of intelligent agents on clusters. , 2010, , .		0
40	Intelligent Agents for Fault Tolerance: From Multi-agent Simulation to Cluster-Based Implementation. , 2010, , .		2
41	A Cluster-Based Implementation of a Fault Tolerant Parallel Reduction Algorithm Using Swarm-Array Computing. , 2010, , .		1
42	A lightweight supercomputing Web portal for inferring phylogenetic trees. , 2009, , .		0
43	Advanced scalable algorithms for advanced architectures. <i>Proceedings of the International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing</i> , 2009, , .	0.0	0
44	Modeling the Effects of Node Heterogeneity on the Performance of Grid Applications. <i>Journal of Networks</i> , 2009, 4, .	0.4	0
45	A comprehensive sensitivity analysis of the WRF model for air quality applications over the Iberian Peninsula. <i>Atmospheric Environment</i> , 2008, 42, 8560-8574.	1.9	250
46	Use of auditory cues for wayfinding assistance in virtual environment. , 2008, , .		10
47	A Collaborative Working Environment for a Large Scale Environmental Model. <i>Lecture Notes in Computer Science</i> , 2008, , 442-449.	1.0	2
48	Collaborative and Cooperative Environments. <i>Lecture Notes in Computer Science</i> , 2008, , 379-380.	1.0	0
49	Immersive Co-operative Psychological Virtual Environments (ICPVE). <i>Lecture Notes in Computer Science</i> , 2008, , 438-445.	1.0	0
50	Eye tracking and gaze vector calculation within immersive virtual environments. , 2007, , .		4
51	Perspectives on Potential of Sound in Virtual Environments. , 2007, , .		5
52	A Data Forest: Multi-Dimensional Visualization. <i>Proceedings / International Conference on Information Visualisation</i> , 2007, , .	0.0	0
53	Monte Carlo Numerical Treatment of Large Linear Algebra Problems. <i>Lecture Notes in Computer Science</i> , 2007, , 747-754.	1.0	10
54	Facilitating Collaboration and Application Sharing with MAST and the Access Grid Development Infrastructures. , 2006, , .		1

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55	Using Haptics to Improve Immersion in Virtual Environments. Lecture Notes in Computer Science, 2006, , 603-609.	1.0	38
56	Error Analysis of a Monte Carlo Algorithm for Computing Bilinear Forms of Matrix Powers. Lecture Notes in Computer Science, 2006, , 632-639.	1.0	3
57	Comparison of the Computational Cost of a Monte Carlo and Deterministic Algorithm for Computing Bilinear Forms of Matrix Powers. Lecture Notes in Computer Science, 2006, , 640-647.	1.0	3
58	Immersive Open Surgery Simulation. Lecture Notes in Computer Science, 2006, , 868-871.	1.0	2
59	Creation and Control of Interactive Virtual Environments. Lecture Notes in Computer Science, 2006, , 595-602.	1.0	5
60	A Sparse Parallel Hybrid Monte Carlo Algorithm for Matrix Computations. Lecture Notes in Computer Science, 2005, , 743-751.	1.0	7
61	Case study: interacting with volumetric medical datasets in networked CAVE environments. , 2005, , .		2
62	Grid Enablement of the Danish Eulerian Air Pollution Model. Lecture Notes in Computer Science, 2005, , 745-754.	1.0	0
63	Mixed Monte Carlo Parallel Algorithms for Matrix Computation. Lecture Notes in Computer Science, 2002, , 609-618.	1.0	10