

# Jacek Kitowski

## List of Publications by Year in descending order

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Version: 2024-02-01

117  
papers

522  
citations

1039880

9  
h-index

1058333

14  
g-index

133  
all docs

133  
docs citations

133  
times ranked

282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Grid organizational memory“provision of a high-level Grid abstraction layer supported by ontology alignment. Future Generation Computer Systems, 2007, 23, 348-358.	4.9	20
2	Complex fluid-dynamical phenomena modeled by large-scale molecular-dynamics simulations. Computers in Physics, 1998, 12, 595.	0.6	18
3	Self-scalable services in service oriented software for cost-effective data farming. Future Generation Computer Systems, 2016, 54, 1-15.	4.9	17
4	Macro-Scale Simulations Using Molecular Dynamics Method. Molecular Simulation, 1995, 15, 343-360.	0.9	15
5	Onedata “ A Step Forward towards Globalization of Data Access for Computing Infrastructures. Procedia Computer Science, 2015, 51, 2843-2847.	1.2	14
6	“Checker Board“Periodic Boundary Conditions in Molecular Dynamics Codes. Molecular Simulation, 1991, 7, 171-179.	0.9	13
7	Optimisation of Character n-gram Profiles Method for Intrinsic Plagiarism Detection. Lecture Notes in Computer Science, 2014, , 500-511.	1.0	13
8	MOLECULAR DYNAMICS SIMULATIONS OF RAYLEIGH“TAYLOR INSTABILITY. , 1997, , 97-136.		11
9	Translation of Common Information Model to Web Ontology Language. Lecture Notes in Computer Science, 2007, , 414-417.	1.0	11
10	Using Discrete Particles As a Natural Solver In Simulating Multiple-Scale Phenomena. Molecular Simulation, 2000, 25, 361-384.	0.9	10
11	A Cloud-Based Data Farming Platform for Molecular Dynamics Simulations. , 2014, , .		10
12	Application of Component-Expert Technology for Selection of Data-Handlers in CrossGrid. Lecture Notes in Computer Science, 2002, , 25-32.	1.0	10
13	INTERACTIVE CLOUD DATA FARMING ENVIRONMENT FOR MILITARY MISSION PLANNING SUPPORT. Computer Science, 2012, 13, 89.	0.4	10
14	C-language molecular dynamics program for the simulation of Lennard-Jones particles. Computer Physics Communications, 1991, 64, 193-205.	3.0	9
15	QoS-based storage resources provisioning for grid applications. Future Generation Computer Systems, 2013, 29, 713-727.	4.9	9
16	Metadata Organization and Management for Globalization of Data Access with Onedata. Lecture Notes in Computer Science, 2016, , 312-321.	1.0	9
17	Formal Model for Contract Negotiation in Knowledge-Based Virtual Organizations. Lecture Notes in Computer Science, 2008, , 409-418.	1.0	9
18	Dynamic VO Establishment in Distributed Heterogeneous Business Environments. Lecture Notes in Computer Science, 2009, , 709-718.	1.0	9

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19	A vectorized algorithm on the ETA 10-P for molecular dynamics simulation of large number of particles confined in a long cylinder. Computer Physics Communications, 1989, 54, 47-54.	3.0	8
20	Agent-Based Simulation Platform Evaluation in the Context of Human Behavior Modeling. Lecture Notes in Computer Science, 2012, , 396-410.	1.0	8
21	Identification of Multi-inclusion Statistically Similar Representative Volume Element for Advanced High Strength Steels by Using Data Farming Approach. Procedia Computer Science, 2015, 51, 924-933.	1.2	8
22	Computer-Integrated Platform for Automatic, Flexible, and Optimal Multivariable Design of a Hot Strip Rolling Technology Using Advanced Multiphase Steels. Metals, 2019, 9, 737.	1.0	8
23	Algorithms for Automatic Data Replication in Grid Environment. Lecture Notes in Computer Science, 2006, , 707-714.	1.0	8
24	Ontology Assisted Access to Document Repositories in Public Sector Organizations. Lecture Notes in Computer Science, 2004, , 700-705.	1.0	8
25	Fuzzy logic applications for failure analysis and diagnosis of a primary circuit of the HTR nuclear power plant. Computer Physics Communications, 1985, 38, 323-327.	3.0	7
26	An examination of long-rod penetration in micro-scale using particles. Journal of Materials Processing Technology, 1996, 60, 415-420.	3.1	7
27	Uniform and Efficient Access to Data in Organizationally Distributed Environments. Lecture Notes in Computer Science, 2014, , 178-194.	1.0	7
28	PL-Grid: Foundations and Perspectives of National Computing Infrastructure. Lecture Notes in Computer Science, 2012, , 1-14.	1.0	7
29	Microcomputers Against Supercomputers? On Geometric Partition of the Computational Box for Vectorized MD Algorithms. Molecular Simulation, 1992, 8, 305-319.	0.9	6
30	Parallel finite element calculation of plastic deformations on Exemplar SPP1000 and on networked workstations. Journal of Materials Processing Technology, 1996, 60, 409-413.	3.1	6
31	Application of the ESB Architecture for Distributed Monitoring of the SLA Requirements. , 2010, , .		6
32	Distributed Contract Negotiation System for Virtual Organizations. Procedia Computer Science, 2011, 4, 2206-2215.	1.2	6
33	Data Farming on Heterogeneous Clouds. , 2014, , .		6
34	Sensitivity analysis on HPC systems with Scalarm platform. Concurrency Computation Practice and Experience, 2017, 29, e4025.	1.4	6
35	Computer simulation of heuristic reinforcement-learning systems for nuclear power plant load changes control. Computer Physics Communications, 1979, 18, 339-352.	3.0	5
36	Linked Lists and the Method of Lights in Molecular Dynamics Simulation - Search for the Best Method of Forces Evaluation in Sequential MD Codes. Molecular Simulation, 1989, 4, 229-239.	0.9	5

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37	Ontology Alignment for Contract Based Virtual Organizations Negotiation and Operation. , 2007, , 835-842.		5
38	Handling internal complexity in highly realistic agent-based models of human behaviour. , 2011, , .		5
39	Consistency Models for Global Scalable Data Access Services. Lecture Notes in Computer Science, 2018, , 471-480.	1.0	5
40	Access Time Estimation for Tertiary Storage Systems. Lecture Notes in Computer Science, 2002, , 873-880.	1.0	5
41	Automatic Management of Cloud Applications with Use of Proximal Policy Optimization. Lecture Notes in Computer Science, 2020, , 73-87.	1.0	5
42	Storage Management Systems for Organizationally Distributed Environments PLGrid PLUS Case Study. Lecture Notes in Computer Science, 2014, , 724-733.	1.0	5
43	A Toolkit for Storage QoS Provisioning for Data-Intensive Applications. Lecture Notes in Computer Science, 2012, , 157-170.	1.0	5
44	The results and perspectives of the particles method approach in investigations of plastic deformations I. Penetration mechanism. Journal of Materials Processing Technology, 1994, 45, 51-56.	3.1	4
45	Comparison of Message-Passing and Shared Memory Implementations of the GMRES Method on MIMD Computers. Scientific Programming, 2001, 9, 195-209.	0.5	4
46	Service Level Agreement Metrics for Real-Time Application on the Grid. , 2007, , 798-806.		4
47	Combining object-oriented and ontology-based approaches in human behaviour modelling. , 2011, , .		4
48	Model of QoS Management in a Distributed Data Sharing and Archiving System. Procedia Computer Science, 2013, 18, 100-109.	1.2	4
49	New approach to global data access in computational infrastructures. Future Generation Computer Systems, 2021, 125, 575-589.	4.9	4
50	Optimization of Data Access for Grid Environment. Lecture Notes in Computer Science, 2004, , 93-102.	1.0	4
51	Polish Computational Research Space for International Scientific Collaborations. Lecture Notes in Computer Science, 2012, , 317-326.	1.0	4
52	Authorship Attribution of Polish Newspaper Articles. Lecture Notes in Computer Science, 2016, , 474-483.	1.0	4
53	Integer Interparticle Distances in Molecular Dynamics Simulation. Molecular Simulation, 1991, 5, 383-390.	0.9	3
54	Knowledge Evolution Supporting Automatic Workflow Composition. , 2006, , .		3

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55	Effective and Scalable Data Access Control in Onedata Large Scale Distributed Virtual File System. <i>Procedia Computer Science</i> , 2017, 108, 445-454.	1.2	3
56	Knowledge Management for Organisationally Mobile Public Employees. <i>Lecture Notes in Computer Science</i> , 2003, , 203-212.	1.0	3
57	Accuracy of Baseline and Complex Methods Applied to Morphosyntactic Tagging of Polish. <i>Lecture Notes in Computer Science</i> , 2008, , 903-912.	1.0	3
58	Model-Based Approach To Study Hot Rolling Mills With Data Farming. , 2016, , .		3
59	Implementation Issues of Computational Fluid Dynamics Algorithms on Parallel Computers. <i>Lecture Notes in Computer Science</i> , 1999, , 349-355.	1.0	3
60	Distributed Computing Infrastructure as a Tool for e-Science. <i>Lecture Notes in Computer Science</i> , 2016, , 271-280.	1.0	3
61	Reproducibility of Computational Experiments on Kubernetes-Managed Container Clouds with HyperFlow. <i>Lecture Notes in Computer Science</i> , 2020, , 220-233.	1.0	3
62	A heuristic approach to the reinforcement-learning control of the one-dimensional model of an HTR core. <i>Annals of Nuclear Energy</i> , 1982, 9, 45-46.	0.9	2
63	Molecular dynamics and lattice gas parallel algorithms for transputers and networked workstations. <i>Transport Theory and Statistical Physics</i> , 1994, 23, 297-311.	0.4	2
64	Access cost estimation for unified grid storage systems. , 0, , .		2
65	Model of Experience for Public Organisations with Staff Mobility. <i>Lecture Notes in Computer Science</i> , 2004, , 91-100.	1.0	2
66	Grid Organizational Memory: A Versatile Solution for Ontology Management in the Grid. , 2006, , .		2
67	Anisotropic Volume Mesh Generation Controlled by Adaptive Metric Space. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	2
68	Development of Polish Infrastructure for Advanced Scientific Research - Status and Current Achievements. , 2013, , .		2
69	Fileless – File-Less Architecture for Future Information Systems. , 2014, , .		2
70	Towards Green Multi-frontal Solver for Adaptive Finite Element Method. <i>Procedia Computer Science</i> , 2015, 51, 984-993.	1.2	2
71	Kademlia with Consistency Checks as a Foundation of Borderless Collaboration in Open Science Services. <i>Procedia Computer Science</i> , 2016, 101, 304-312.	1.2	2
72	Parallel Processing and Applied Mathematics. <i>Lecture Notes in Computer Science</i> , 2016, , .	1.0	2

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73	Parallel Processing and Applied Mathematics. Lecture Notes in Computer Science, 2016, , .	1.0	2
74	Generating Semantic Descriptions of Web and Grid Services. , 2007, , 93-102.		2
75	Gray Box Based Data Access Time Estimation for Tertiary Storage in Grid Environment. Lecture Notes in Computer Science, 2004, , 181-188.	1.0	2
76	Vectorized molecular dynamics algorithms for very large number of particles. , 1989, , .		2
77	MANAGEMENT METHODS IN SLA-AWARE DISTRIBUTED STORAGE SYSTEMS. Computer Science, 2012, 13, 35.	0.4	2
78	A Distributed Medical Information System for Multimedia Data â€™ The First Yearâ€™s Experience of the PARMED Project. Lecture Notes in Computer Science, 2000, , 543-546.	1.0	2
79	Tertiary Storage System for Index-Based Retrieving of Video Sequences. Lecture Notes in Computer Science, 2001, , 62-71.	1.0	2
80	Data Access Time Estimation for the CASTOR HSM System. Lecture Notes in Computer Science, 2006, , 148-155.	1.0	2
81	Grid Services for HSM Systems Monitoring. Lecture Notes in Computer Science, 2008, , 321-330.	1.0	2
82	Clustering Polish Texts with Latent Semantic Analysis. Lecture Notes in Computer Science, 2010, , 532-539.	1.0	2
83	Towards More Realistic Human Behaviour Simulation: Modelling Concept, Deriving Ontology and Semantic Framework. Topics in Intelligent Engineering and Informatics, 2012, , 1-17.	0.4	2
84	Applications of fuzzy diagnostics to failure analysis of industrial complex plants. Computer Physics Communications, 1986, 41, 419-421.	3.0	1
85	Towards Role-Based Self-healing in Autonomous Monitoring Systems. , 2010, , .		1
86	Elastic Infrastructure for Interactive Data Farming Experiments. Procedia Computer Science, 2012, 9, 206-215.	1.2	1
87	Towards Adaptable Data Farming in Clouds. , 2014, , .		1
88	Science automation in practice: Performance data farming in workflows. , 2016, , .		1
89	Parameter studies on heterogeneous computing infrastructures with the Scalarm platform. , 2016, , .		1
90	Bridging the Gap Between HPC and Cloud Using HyperFlow and PaaSage. Lecture Notes in Computer Science, 2018, , 432-442.	1.0	1

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91	Analysis of Interoperability Issues Between EGEE and VEGA Grid Infrastructures. Lecture Notes in Computer Science, 2006, , 793-802.	1.0	1
92	Flexible Component Architecture for Information WEB Portals. Lecture Notes in Computer Science, 2003, , 629-638.	1.0	1
93	Scalable CFD Computations Using Message-Passing and Distributed Shared Memory Algorithms. Lecture Notes in Computer Science, 2000, , 282-288.	1.0	1
94	An Empirical Comparison of Decomposition Algorithms for Complex Finite Element Meshes. Lecture Notes in Computer Science, 2002, , 493-501.	1.0	1
95	A Framework for Managing Large Scale Computing Fabrics and Its Computational Complexity. Lecture Notes in Computer Science, 2006, , 288-295.	1.0	1
96	Replica Management for National Data Storage. Lecture Notes in Computer Science, 2010, , 184-193.	1.0	1
97	Application of Stacked Methods to Part-of-Speech Tagging of Polish. Lecture Notes in Computer Science, 2010, , 340-349.	1.0	1
98	Semantic-Based SLA Monitoring of Storage Resources. Lecture Notes in Computer Science, 2012, , 232-241.	1.0	1
99	Domain-Specific Services in Polish e-Infrastructure. Lecture Notes in Computer Science, 2014, , 1-15.	1.0	1
100	Massively Parallel Approach to Sensitivity Analysis on HPC Architectures by Using Scalarm Platform. Lecture Notes in Computer Science, 2016, , 172-181.	1.0	1
101	Object-oriented database system for large-scale molecular dynamics simulations. Lecture Notes in Computer Science, 1999, , 693-701.	1.0	0
102	Stochastic Approach for Secondary Storage Data Access Cost Estimation. Lecture Notes in Computer Science, 2005, , 796-804.	1.0	0
103	Particle Simulations of Two-Phase Flows on Cell Broadband Engine. , 2008, , .		0
104	Semantic Approach to Capability and Capacity Computing. , 2008, , .		0
105	Hypergraph Based Abstraction for File-Less Data Management. Lecture Notes in Computer Science, 2016, , 322-331.	1.0	0
106	Management of Heterogeneous Cloud Resources with Use of the PPO. Lecture Notes in Computer Science, 2021, , 148-159.	1.0	0
107	Benchmarking Tertiary Storage Systems with File Fragmentation. Lecture Notes in Computer Science, 2002, , 162-169.	1.0	0
108	Message Passing in XML-Based Language for Creating Multimedia Presentations. Lecture Notes in Computer Science, 2002, , 826-829.	1.0	0

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109	Virtual Storage System for the Grid Environment. Lecture Notes in Computer Science, 2004, , 458-461.	1.0	0
110	P2P Approach to Knowledge-Based Dynamic Virtual Organizations Inception and Management. Lecture Notes in Computer Science, 2012, , 201-210.	1.0	0
111	Automation of System Monitoring Based on Fuzzy Logic or Rules; Comparison of Two Designed Approaches with Regard to Computational Infrastructures. Lecture Notes in Computer Science, 2012, , 142-156.	1.0	0
112	Development of Domain-Specific Solutions Within the Polish Infrastructure for Advanced Scientific Research. Lecture Notes in Computer Science, 2014, , 237-250.	1.0	0
113	Creation of Agent's Vision of Social Network Through Episodic Memory. Lecture Notes in Computer Science, 2014, , 741-750.	1.0	0
114	File-Less Approach to Large Scale Data Management. Lecture Notes in Computer Science, 2015, , 27-38.	1.0	0
115	Harmonizing Sequential and Random Access to Datasets in Organizationally Distributed Environments. Lecture Notes in Computer Science, 2019, , 295-308.	1.0	0
116	Transparent Data Access for Scientific Workflows Across Clouds. Lecture Notes in Computer Science, 2020, , 751-755.	1.0	0
117	Personality Recognition from Source Code Based on Lexical, Syntactic and Semantic Features. Lecture Notes in Computer Science, 2020, , 351-363.	1.0	0