

# Jacek Kitowski

## List of Publications by Year in descending order

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117  
papers

522  
citations

1039880

9  
h-index

1058333

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g-index

133  
all docs

133  
docs citations

133  
times ranked

282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Management of Heterogeneous Cloud Resources with Use of the PPO. Lecture Notes in Computer Science, 2021, , 148-159.	1.0	0
2	New approach to global data access in computational infrastructures. Future Generation Computer Systems, 2021, 125, 575-589.	4.9	4
3	Automatic Management of Cloud Applications with Use of Proximal Policy Optimization. Lecture Notes in Computer Science, 2020, , 73-87.	1.0	5
4	Transparent Data Access for Scientific Workflows Across Clouds. Lecture Notes in Computer Science, 2020, , 751-755.	1.0	0
5	Personality Recognition from Source Code Based on Lexical, Syntactic and Semantic Features. Lecture Notes in Computer Science, 2020, , 351-363.	1.0	0
6	Reproducibility of Computational Experiments on Kubernetes-Managed Container Clouds with HyperFlow. Lecture Notes in Computer Science, 2020, , 220-233.	1.0	3
7	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
8	Harmonizing Sequential and Random Access to Datasets in Organizationally Distributed Environments. Lecture Notes in Computer Science, 2019, , 295-308.	1.0	0
9	Consistency Models for Global Scalable Data Access Services. Lecture Notes in Computer Science, 2018, , 471-480.	1.0	5
10	Bridging the Gap Between HPC and Cloud Using HyperFlow and PaaSage. Lecture Notes in Computer Science, 2018, , 432-442.	1.0	1
11	Sensitivity analysis on HPC systems with Scalarm platform. Concurrency Computation Practice and Experience, 2017, 29, e4025.	1.4	6
12	Effective and Scalable Data Access Control in Onedata Large Scale Distributed Virtual File System. Procedia Computer Science, 2017, 108, 445-454.	1.2	3
13	Science automation in practice: Performance data farming in workflows. , 2016, , .		1
14	Parameter studies on heterogeneous computing infrastructures with the Scalarm platform. , 2016, , .		1
15	Kademlia with Consistency Checks as a Foundation of Borderless Collaboration in Open Science Services. Procedia Computer Science, 2016, 101, 304-312.	1.2	2
16	Parallel Processing and Applied Mathematics. Lecture Notes in Computer Science, 2016, , .	1.0	2
17	Parallel Processing and Applied Mathematics. Lecture Notes in Computer Science, 2016, , .	1.0	2
18	Metadata Organization and Management for Globalization of Data Access with Onedata. Lecture Notes in Computer Science, 2016, , 312-321.	1.0	9

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19	Hypergraph Based Abstraction for File-Less Data Management. Lecture Notes in Computer Science, 2016, , 322-331.	1.0	0
20	Self-scalable services in service oriented software for cost-effective data farming. Future Generation Computer Systems, 2016, 54, 1-15.	4.9	17
21	Model-Based Approach To Study Hot Rolling Mills With Data Farming. , 2016, , .		3
22	Authorship Attribution of Polish Newspaper Articles. Lecture Notes in Computer Science, 2016, , 474-483.	1.0	4
23	Massively Parallel Approach to Sensitivity Analysis on HPC Architectures by Using Scalarm Platform. Lecture Notes in Computer Science, 2016, , 172-181.	1.0	1
24	Distributed Computing Instrastructure as a Tool for e-Science. Lecture Notes in Computer Science, 2016, , 271-280.	1.0	3
25	Towards Green Multi-frontal Solver for Adaptive Finite Element Method. Procedia Computer Science, 2015, 51, 984-993.	1.2	2
26	Onedata – A Step Forward towards Globalization of Data Access for Computing Infrastructures. Procedia Computer Science, 2015, 51, 2843-2847.	1.2	14
27	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
28	File-Less Approach to Large Scale Data Management. Lecture Notes in Computer Science, 2015, , 27-38.	1.0	0
29	Filess – File-Less Architecture for Future Information Systems. , 2014, , .		2
30	Towards Adaptable Data Farming in Clouds. , 2014, , .		1
31	Data Farming on Heterogeneous Clouds. , 2014, , .		6
32	A Cloud-Based Data Farming Platform for Molecular Dynamics Simulations. , 2014, , .		10
33	Optimisation of Character n-gram Profiles Method for Intrinsic Plagiarism Detection. Lecture Notes in Computer Science, 2014, , 500-511.	1.0	13
34	Uniform and Efficient Access to Data in Organizationally Distributed Environments. Lecture Notes in Computer Science, 2014, , 178-194.	1.0	7
35	Storage Management Systems for Organizationally Distributed Environments PLGrid PLUS Case Study. Lecture Notes in Computer Science, 2014, , 724-733.	1.0	5
36	Development of Domain-Specific Solutions Within the Polish Infrastructure for Advanced Scientific Research. Lecture Notes in Computer Science, 2014, , 237-250.	1.0	0

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37	Creation of Agent's Vision of Social Network Through Episodic Memory. Lecture Notes in Computer Science, 2014, , 741-750.	1.0	0
38	Domain-Specific Services in Polish e-Infrastructure. Lecture Notes in Computer Science, 2014, , 1-15.	1.0	1
39	Model of QoS Management in a Distributed Data Sharing and Archiving System. Procedia Computer Science, 2013, 18, 100-109.	1.2	4
40	QoS-based storage resources provisioning for grid applications. Future Generation Computer Systems, 2013, 29, 713-727.	4.9	9
41	Development of Polish Infrastructure for Advanced Scientific Research - Status and Current Achievements. , 2013, , .		2
42	Elastic Infrastructure for Interactive Data Farming Experiments. Procedia Computer Science, 2012, 9, 206-215.	1.2	1
43	Agent-Based Simulation Platform Evaluation in the Context of Human Behavior Modeling. Lecture Notes in Computer Science, 2012, , 396-410.	1.0	8
44	MANAGEMENT METHODS IN SLA-AWARE DISTRIBUTED STORAGE SYSTEMS. Computer Science, 2012, 13, 35.	0.4	2
45	INTERACTIVE CLOUD DATA FARMING ENVIRONMENT FOR MILITARY MISSION PLANNING SUPPORT. Computer Science, 2012, 13, 89.	0.4	10
46	P2P Approach to Knowledge-Based Dynamic Virtual Organizations Inception and Management. Lecture Notes in Computer Science, 2012, , 201-210.	1.0	0
47	PL-Grid: Foundations and Perspectives of National Computing Infrastructure. Lecture Notes in Computer Science, 2012, , 1-14.	1.0	7
48	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
49	A Toolkit for Storage QoS Provisioning for Data-Intensive Applications. Lecture Notes in Computer Science, 2012, , 157-170.	1.0	5
50	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
51	Polish Computational Research Space for International Scientific Collaborations. Lecture Notes in Computer Science, 2012, , 317-326.	1.0	4
52	Semantic-Based SLA Monitoring of Storage Resources. Lecture Notes in Computer Science, 2012, , 232-241.	1.0	1
53	Combining object-oriented and ontology-based approaches in human behaviour modelling. , 2011, , .		4
54	Distributed Contract Negotiation System for Virtual Organizations. Procedia Computer Science, 2011, 4, 2206-2215.	1.2	6

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55	Handling internal complexity in highly realistic agent-based models of human behaviour. , 2011, , .		5
56	Application of the ESB Architecture for Distributed Monitoring of the SLA Requirements. , 2010, , .		6
57	Towards Role-Based Self-healing in Autonomous Monitoring Systems. , 2010, , .		1
58	Clustering Polish Texts with Latent Semantic Analysis. Lecture Notes in Computer Science, 2010, , 532-539.	1.0	2
59	Replica Management for National Data Storage. Lecture Notes in Computer Science, 2010, , 184-193.	1.0	1
60	Application of Stacked Methods to Part-of-Speech Tagging of Polish. Lecture Notes in Computer Science, 2010, , 340-349.	1.0	1
61	Dynamic VO Establishment in Distributed Heterogeneous Business Environments. Lecture Notes in Computer Science, 2009, , 709-718.	1.0	9
62	Particle Simulations of Two-Phase Flows on Cell Broadband Engine. , 2008, , .		0
63	Semantic Approach to Capability and Capacity Computing. , 2008, , .		0
64	Accuracy of Baseline and Complex Methods Applied to Morphosyntactic Tagging of Polish. Lecture Notes in Computer Science, 2008, , 903-912.	1.0	3
65	Formal Model for Contract Negotiation in Knowledge-Based Virtual Organizations. Lecture Notes in Computer Science, 2008, , 409-418.	1.0	9
66	Grid Services for HSM Systems Monitoring. Lecture Notes in Computer Science, 2008, , 321-330.	1.0	2
67	Anisotropic Volume Mesh Generation Controlled by Adaptive Metric Space. AIP Conference Proceedings, 2007, , .	0.3	2
68	Grid organizational memoryâ€™provision of a high-level Grid abstraction layer supported by ontology alignment. Future Generation Computer Systems, 2007, 23, 348-358.	4.9	20
69	Ontology Alignment for Contract Based Virtual Organizations Negotiation and Operation. , 2007, , 835-842.		5
70	Service Level Agreement Metrics for Real-Time Application on the Grid. , 2007, , 798-806.		4
71	Generating Semantic Descriptions of Web and Grid Services. , 2007, , 93-102.		2
72	Translation of Common Information Model to Web Ontology Language. Lecture Notes in Computer Science, 2007, , 414-417.	1.0	11

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73	Knowledge Evolution Supporting Automatic Workflow Composition. , 2006, , .		3
74	Grid Organizational Memory: A Versatile Solution for Ontology Management in the Grid. , 2006, , .		2
75	Algorithms for Automatic Data Replication in Grid Environment. Lecture Notes in Computer Science, 2006, , 707-714.	1.0	8
76	Analysis of Interoperability Issues Between EGEE and VEGA Grid Infrastructures. Lecture Notes in Computer Science, 2006, , 793-802.	1.0	1
77	A Framework for Managing Large Scale Computing Fabrics and Its Computational Complexity. Lecture Notes in Computer Science, 2006, , 288-295.	1.0	1
78	Data Access Time Estimation for the CASTOR HSM System. Lecture Notes in Computer Science, 2006, , 148-155.	1.0	2
79	Stochastic Approach for Secondary Storage Data Access Cost Estimation. Lecture Notes in Computer Science, 2005, , 796-804.	1.0	0
80	Model of Experience for Public Organisations with Staff Mobility. Lecture Notes in Computer Science, 2004, , 91-100.	1.0	2
81	Gray Box Based Data Access Time Estimation for Tertiary Storage in Grid Environment. Lecture Notes in Computer Science, 2004, , 181-188.	1.0	2
82	Ontology Assisted Access to Document Repositories in Public Sector Organizations. Lecture Notes in Computer Science, 2004, , 700-705.	1.0	8
83	Optimization of Data Access for Grid Environment. Lecture Notes in Computer Science, 2004, , 93-102.	1.0	4
84	Virtual Storage System for the Grid Environment. Lecture Notes in Computer Science, 2004, , 458-461.	1.0	0
85	Knowledge Management for Organisationally Mobile Public Employees. Lecture Notes in Computer Science, 2003, , 203-212.	1.0	3
86	Flexible Component Architecture for Information WEB Portals. Lecture Notes in Computer Science, 2003, , 629-638.	1.0	1
87	Access Time Estimation for Tertiary Storage Systems. Lecture Notes in Computer Science, 2002, , 873-880.	1.0	5
88	Application of Component-Expert Technology for Selection of Data-Handlers in CrossGrid. Lecture Notes in Computer Science, 2002, , 25-32.	1.0	10
89	An Empirical Comparison of Decomposition Algorithms for Complex Finite Element Meshes. Lecture Notes in Computer Science, 2002, , 493-501.	1.0	1
90	Benchmarking Tertiary Storage Systems with File Fragmentation. Lecture Notes in Computer Science, 2002, , 162-169.	1.0	0

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91	Message Passing in XML-Based Language for Creating Multimedia Presentations. Lecture Notes in Computer Science, 2002, , 826-829.	1.0	0
92	Comparison of Message-Passing and Shared Memory Implementations of the GMRES Method on MIMD Computers. Scientific Programming, 2001, 9, 195-209.	0.5	4
93	Tertiary Storage System for Index-Based Retrieving of Video Sequences. Lecture Notes in Computer Science, 2001, , 62-71.	1.0	2
94	Using Discrete Particles As a Natural Solver In Simulating Multiple-Scale Phenomena. Molecular Simulation, 2000, 25, 361-384.	0.9	10
95	Scalable CFD Computations Using Message-Passing and Distributed Shared Memory Algorithms. Lecture Notes in Computer Science, 2000, , 282-288.	1.0	1
96	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
97	Object-oriented database system for large-scale molecular dynamics simulations. Lecture Notes in Computer Science, 1999, , 693-701.	1.0	0
98	Implementation Issues of Computational Fluid Dynamics Algorithms on Parallel Computers. Lecture Notes in Computer Science, 1999, , 349-355.	1.0	3
99	Complex fluid-dynamical phenomena modeled by large-scale molecular-dynamics simulations. Computers in Physics, 1998, 12, 595.	0.6	18
100	MOLECULAR DYNAMICS SIMULATIONS OF RAYLEIGHâ€™TAYLOR INSTABILITY., 1997, , 97-136.		11
101	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
102	An examination of long-rod penetration in micro-scale using particles. Journal of Materials Processing Technology, 1996, 60, 415-420.	3.1	7
103	Macro-Scale Simulations Using Molecular Dynamics Method. Molecular Simulation, 1995, 15, 343-360.	0.9	15
104	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
105	Molecular dynamics and lattice gas parallel algorithms for transputers and networked workstations. Transport Theory and Statistical Physics, 1994, 23, 297-311.	0.4	2
106	Microcomputers Against Supercomputers? On Geometric Partition of the Computational Box for Vectorized MD Algorithms. Molecular Simulation, 1992, 8, 305-319.	0.9	6
107	Integer Interparticle Distances in Molecular Dynamics Simulation. Molecular Simulation, 1991, 5, 383-390.	0.9	3
108	â€œChecker Boardâ€•Periodic Boundary Conditions in Molecular Dynamics Codes. Molecular Simulation, 1991, 7, 171-179.	0.9	13

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109	C-language molecular dynamics program for the simulation of Lennard-Jones particles. Computer Physics Communications, 1991, 64, 193-205.	3.0	9
110	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
111	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
112	Vectorized molecular dynamics algorithms for very large number of particles. , 1989, , .		2
113	Applications of fuzzy diagnostics to failure analysis of industrial complex plants. Computer Physics Communications, 1986, 41, 419-421.	3.0	1
114	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
115	A heuristic approach to the reinforcement-learning control of the one-dimensional model of an HTR core. Annals of Nuclear Energy, 1982, 9, 45-46.	0.9	2
116	Computer simulation of heuristic reinforcement-learning systems for nuclear power plant load changes control. Computer Physics Communications, 1979, 18, 339-352.	3.0	5
117	Access cost estimation for unified grid storage systems. , 0, , .		2