

Cees De Laat

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

2,251
citations

361413

20
h-index

395702

33
g-index

120
all docs

120
docs citations

120
times ranked

1737
citing authors

#	ARTICLE	IF	CITATIONS
1	Addressing big data issues in Scientific Data Infrastructure. , 2013, , .		277
2	Defining architecture components of the Big Data Ecosystem. , 2014, , .		247
3	Seamless live migration of virtual machines over the MAN/WAN. Future Generation Computer Systems, 2006, 22, 901-907.	7.5	174
4	TransLight. Communications of the ACM, 2003, 46, 34-41.	4.5	89
5	The distributed ASCI Supercomputer project. Operating Systems Review (ACM), 2000, 34, 76-96.	1.9	80
6	Addressing Big Data challenges for Scientific Data Infrastructure. , 2012, , .		78
7	THE COSMOGRID SIMULATION: STATISTICAL PROPERTIES OF SMALL DARK MATTER HALOS. Astrophysical Journal, 2013, 767, 146.	4.5	76
8	Profiling Energy Consumption of VMs for Green Cloud Computing. , 2011, , .		53
9	Concurrent container scheduling on heterogeneous clusters with multi-resource constraints. Future Generation Computer Systems, 2020, 102, 562-573.	7.5	47
10	Joint flow routing-scheduling for energy efficient software defined data center networks. Journal of Network and Computer Applications, 2016, 63, 110-124.	9.1	42
11	Planning virtual infrastructures for time critical applications with multiple deadline constraints. Future Generation Computer Systems, 2017, 75, 365-375.	7.5	34
12	The rationale of the current optical networking initiatives. Future Generation Computer Systems, 2003, 19, 999-1008.	7.5	33
13	Using the Network Description Language in Optical Networks. , 2007, , .		32
14	A distributed topology information system for optical networks based on the semantic web. Optical Switching and Networking, 2008, 5, 85-93.	2.0	32
15	Time-critical data management in clouds: Challenges and a Dynamic Real-time Infrastructure Planner (DRIP) solution. Concurrency Computation Practice and Experience, 2020, 32, e5269.	2.2	31
16	Towards an Infrastructure Description Language for Modeling Computing Infrastructures. , 2012, , .		28
17	A semantic-web approach for modeling computing infrastructures. Computers and Electrical Engineering, 2013, 39, 2553-2565.	4.8	28
18	Developing and Operating Time Critical Applications in Clouds: The State of the Art and the SWITCH Approach. Procedia Computer Science, 2015, 68, 17-28.	2.0	27

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19	Special section: OptiPlanet – The OptiPutter global collaboratory. Future Generation Computer Systems, 2009, 25, 109-113.	7.5	26
20	Federated Access Control in Heterogeneous Intercloud Environment: Basic Models and Architecture Patterns. , 2014, , .		26
21	Decision Diagrams for XACML Policy Evaluation and Management. Computers and Security, 2015, 49, 1-16.	6.0	26
22	Trustworthy Cloud Service Level Agreement Enforcement with Blockchain Based Smart Contract. , 2018, , .		26
23	Multi-tenant attribute-based access control for cloud infrastructure services. Journal of Information Security and Applications, 2016, 27-28, 65-84.	2.5	25
24	A Software Workbench for Interactive, Time Critical and Highly Self-Adaptive Cloud Applications (SWITCH). , 2015, , .		24
25	An agent based network resource planner for workflow applications. Multiagent and Grid Systems, 2011, 7, 187-202.	0.9	23
26	Security Services Lifecycle Management in On-Demand Infrastructure Services Provisioning. , 2010, , .		22
27	Using ontologies for resource description in the CineGrid Exchange. Future Generation Computer Systems, 2011, 27, 960-965.	7.5	21
28	Authorization of a QoS path based on generic AAA. Future Generation Computer Systems, 2003, 19, 1009-1016.	7.5	20
29	The NOVI information models. Future Generation Computer Systems, 2015, 42, 64-73.	7.5	20
30	A Responsible Internet to Increase Trust in the Digital World. Journal of Network and Systems Management, 2020, 28, 882-922.	4.9	20
31	Deadline-Aware Deployment for Time Critical Applications in Clouds. Lecture Notes in Computer Science, 2017, , 345-357.	1.3	20
32	A multi-layer network model based on ITU-T G.805. Computer Networks, 2008, 52, 1927-1937.	5.1	19
33	Security Infrastructure for On-demand Provisioned Cloud Infrastructure Services. , 2011, , .		19
34	Reference Model Guided System Design and Implementation for Interoperable Environmental Research Infrastructures. , 2015, , .		18
35	CloudsStorm: A framework for seamlessly programming and controlling virtual infrastructure functions during the DevOps lifecycle of cloud applications. Software - Practice and Experience, 2019, 49, 1421-1447.	3.6	18
36	Multi-objective Container Deployment on Heterogeneous Clusters. , 2019, , .		17

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37	Simulating the Universe on an Intercontinental Grid. Computer, 2010, 43, 63-70.	1.1	16
38	Optimizing Service Placement for Microservice Architecture in Clouds. Applied Sciences (Switzerland), 2019, 9, 4663.	2.5	16
39	ECSSched: Efficient Container Scheduling on Heterogeneous Clusters. Lecture Notes in Computer Science, 2018, , 365-377.	1.3	15
40	A path finding implementation for multi-layer networks. Future Generation Computer Systems, 2009, 25, 142-146.	7.5	14
41	The Service Provider Group framework. Future Generation Computer Systems, 2015, 45, 176-192.	7.5	14
42	Special section: iGrid 2005: The Global Lambda Integrated Facility. Future Generation Computer Systems, 2006, 22, 849-851.	7.5	13
43	On-demand provisioning of Cloud and Grid based infrastructure services for collaborative projects and groups. , 2011, , .		13
44	Dynamic Real-Time Infrastructure Planning and Deployment for Disaster Early Warning Systems. Lecture Notes in Computer Science, 2018, , 644-654.	1.3	13
45	Native 10Gigabit Ethernet experiments over long distances. Future Generation Computer Systems, 2005, 21, 457-468.	7.5	12
46	Authorisation infrastructure for on-demand network resource provisioning. , 2008, , .		12
47	Modeling of Collaboration Archetypes in Digital Market Places. IEEE Access, 2019, 7, 102689-102700.	4.2	12
48	Dynamic Optimization of SLA-Based Services Scaling Rules. , 2013, , .		11
49	Fast Resource Co-provisioning for Time Critical Applications Based on Networked Infrastructures. , 2016, , .		11
50	CoreFlow: Enriching Bro security events using network traffic monitoring data. Future Generation Computer Systems, 2018, 79, 235-242.	7.5	11
51	The EPI Framework: A Dynamic Data Sharing Framework for Healthcare Use Cases. IEEE Access, 2020, 8, 179909-179920.	4.2	11
52	Enforcing trustworthy cloud SLA with witnesses: A game theoryâ€‘based model using smart contracts. Concurrency Computation Practice and Experience, 2021, 33, e5511.	2.2	10
53	CloudsStorm: An Application-Driven Framework to Enhance the Programmability and Controllability of Cloud Virtual Infrastructures. Lecture Notes in Computer Science, 2018, , 265-280.	1.3	10
54	Using Workflow for Dynamic Security Context Management in Grid-based Applications. , 2006, , .		9

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55	Multi-domain lightpath authorization, using tokens. Future Generation Computer Systems, 2009, 25, 153-160.	7.5	9
56	Policy and Context Management in Dynamically Provisioned Access Control Service for Virtualized Cloud Infrastructures. , 2012, , .		9
57	Cloud based big data infrastructure: Architectural components and automated provisioning. , 2016, , .		9
58	Modeling and Matching Digital Data Marketplace Policies. , 2019, , .		9
59	Microscopic examination of TCP flows over transatlantic links. Future Generation Computer Systems, 2003, 19, 1017-1029.	7.5	8
60	Dynamic security context management in Grid-based applications. Future Generation Computer Systems, 2008, 24, 434-441.	7.5	8
61	Towards Trustworthy Information Sharing by Creating Cyber Security Alliances. , 2018, , .		8
62	Domain Based Access Control Model for Distributed Collaborative Applications. , 2006, , .		7
63	Dynamic photonic lightpaths in the StarPlane network. Future Generation Computer Systems, 2009, 25, 132-136.	7.5	7
64	Fast and Dynamic Resource Provisioning for Quality Critical Cloud Applications. , 2016, , .		7
65	Learning Workflow Scheduling on Multi-Resource Clusters. , 2019, , .		7
66	Wi-Fi 6 performance measurements of 1024-QAM and DL OFDMA. , 2020, , .		7
67	iGrid 2002: The International Virtual Laboratory. Future Generation Computer Systems, 2003, 19, 803-804.	7.5	6
68	User Programmable Virtualized Networks. , 2006, , .		6
69	Managing federations of virtualized infrastructures: A semantic-aware policy based approach. , 2011, , .		6
70	CineGrid: Super high definition media over optical networks. Future Generation Computer Systems, 2011, 27, 881-885.	7.5	6
71	Interactive analysis of SDN-driven defence against distributed denial of service attacks. , 2016, , .		6
72	Profiling the scheduling decisions for handling critical paths in deadline-constrained cloud workflows. Future Generation Computer Systems, 2019, 100, 237-249.	7.5	6

#	ARTICLE	IF	CITATIONS
73	A real-time intrusion detection system based on OC-SVM for containerized applications. , 2021, , .		5
74	Using SAML and XACML for Complex Authorisation Scenarios in Dynamic Resource Provisioning. , 2007, , .		4
75	High Performance Digital Media Network (HPDMnet): An advanced international research initiative and global experimental testbed. Future Generation Computer Systems, 2011, 27, 893-905.	7.5	4
76	Network Resource Control for Data Intensive Applications in Heterogeneous Infrastructures. , 2012, , .		4
77	<scp>OIntEd</scp>: online ontology instance editor enabling a new approach to ontology development. Software - Practice and Experience, 2013, 43, 1319-1335.	3.6	4
78	Carbon-aware path provisioning for NRENs. , 2014, , .		4
79	Automatic Collector for Dynamic Cloud Performance Information. , 2017, , .		4
80	Information Centric Networking for Sharing and Accessing Digital Objects with Persistent Identifiers on Data Infrastructures. , 2018, , .		4
81	Securing Home Wi-Fi with WPA3 Personal. , 2021, , .		4
82	Policy Enforcement for Secure and Trustworthy Data Sharing in Multi-domain Infrastructures. , 2020, , .		4
83	An agent based planner for including network QoS in scientific workflows. , 2010, , .		3
84	Network resource selection for data transfer processes in scientific workflows. , 2010, , .		3
85	Towards Energy Efficient Data Intensive Computing Using IEEE 802.3az. , 2012, , .		3
86	Semantic Distributed Resource Discovery for Multiple Resource Providers. , 2012, , .		3
87	A semantic enhanced Power Budget Calculator for distributed computing using IEEE 802.3az. Cluster Computing, 2015, 18, 61-77.	5.0	3
88	Creating a Worldwide Network for the Global Environment for Network Innovations (GENI) and Related Experimental Environments. , 2016, , 589-632.		3
89	Towards a data processing plane: An automata-based distributed dynamic data processing model. Future Generation Computer Systems, 2016, 59, 21-32.	7.5	3
90	Deadline-Aware Coflow Scheduling in a DAG. , 2017, , .		3

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91	Approaches for Collaborative Security Defences in Multi Network Environments. , 2019, , .		3
92	A risk-level assessment system based on the STRIDE/DREAD model for digital data marketplaces. International Journal of Information Security, 2022, 21, 509-525.	3.4	3
93	Interactive Workflows in a Virtual Laboratory for e-Bioscience: The SigWin-Detector Tool for Gene Expression Analysis. , 2006, , .		2
94	Token based networking: Experiment NL-101. Future Generation Computer Systems, 2006, 22, 1025-1031.	7.5	2
95	StarPlane â€œ a national dynamic photonic network controlled by grid applications. Internet Research, 2007, 17, 546-553.	4.9	2
96	An Architecture Including Network QoS in Scientific Workflows. , 2010, , .		2
97	Resource Discovery in Large Scale Network Infrastructure. , 2011, , .		2
98	Measuring the effectiveness of SDN mitigations against cyber attacks. , 2017, , .		2
99	Empowering Dynamic Task-Based Applications with Agile Virtual Infrastructure Programmability. , 2018, , .		2
100	Developing, Provisioning and Controlling Time Critical Applications in Cloud. Communications in Computer and Information Science, 2018, , 169-174.	0.5	2
101	Authorisation Infrastructure for On-Demand Grid and Network Resource Provisioning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 9-18.	0.3	2
102	Exploring practical limitations of TCP over transatlantic networks. Future Generation Computer Systems, 2005, 21, 489-499.	7.5	1
103	Beyond Scientific Workflows: Networked Open Processes. , 2013, , .		1
104	Security Infrastructure for Dynamically Provisioned Cloud Infrastructure Services. Computer Communications and Networks, 2013, , 167-210.	0.8	1
105	A user-centric execution environment for CineGrid Âworkloads. Future Generation Computer Systems, 2015, 53, 55-62.	7.5	1
106	Managing Effective Collaboration in Cybersecurity Alliances Using Social Computational Trust. , 2019, , .		1
107	Towards a New Paradigm for Programming Scientific Workflows. , 2019, , .		1
108	Interactive Control over a Programmable Computer Network Using a Multi-touch Surface. Lecture Notes in Computer Science, 2009, , 719-728.	1.3	1

#	ARTICLE	IF	CITATIONS
109	Grid Network Services Infrastructure. , 2006, , 277-292.		0
110	A platform independent communication library for distributed computing. Procedia Computer Science, 2010, 1, 2699-2706.	2.0	0
111	HybridFlow: Towards intelligent video delivery and processing over hybrid infrastructures. , 2013, , .		0
112	Evaluation of approaches for power estimation in a computing cluster. , 2014, , .		0
113	Migrating Live Streaming Applications onto Clouds: Challenges and a CloudStorm Solution. , 2018, , .		0
114	Trust-based collaborative defences in multi network alliances. , 2019, , .		0
115	TCP Behavior on Transatlantic Lambdaâ€™s. Lecture Notes in Computer Science, 2004, , 282-290.	1.3	0
116	eScience Applications on the SURFnet RE Network. , 2011, , .		0