

Massimo Villari

List of Publications by Year in descending order

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Version: 2024-02-01

169
papers

3,541
citations

331538

21
h-index

233338

45
g-index

179
all docs

179
docs citations

179
times ranked

3356
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Considerations on Gaming Console Based Training for Multiple Sclerosis Rehabilitation. Medical Sciences (Basel, Switzerland), 2022, 10, 13.	1.3	4
2	IEEE Transactions on Sustainable Computing Special Issue on Sustainability of Fog/Edge Computing Systems. IEEE Transactions on Sustainable Computing, 2022, 7, 248-249.	2.2	0
3	A Map-Reduce Approach for the Dijkstra Algorithm in SDN Over Osmotic Computing Systems. International Journal of Parallel Programming, 2021, 49, 347-375.	1.1	2
4	Trusted Ecosystem for IoT Service Provisioning Based on Brokering. , 2021, , .		4
5	Virtual Device Model extending NGSI-LD for FaaS at the Edge. , 2021, , .		3
6	OCE-DNS: an innovative Osmotic Computing Enabled Domain Name System. , 2021, , .		1
7	Resource management of <scp>IoT</scp> edge devices: Challenges, techniques, and solutions. Software - Practice and Experience, 2021, 51, 2357-2359.	2.5	7
8	IoTsim-Osmosis: A framework for modeling and simulating IoT applications over an edge-cloud continuum. Journal of Systems Architecture, 2021, 116, 101956.	2.5	40
9	An Osmotic Computing Enabled Domain Naming System (OCE-DNS) for distributed service relocation between cloud and edge. Computers and Electrical Engineering, 2021, 96, 107578.	3.0	6
10	Multi Hop Reconfiguration of End-Devices in Heterogeneous Edge-IoT Mesh Networks. , 2021, , .		3
11	Overcoming security limitations of Secret Share techniques: the Nested Secret Share. , 2021, , .		5
12	A big video data transcoding service for social media over federated clouds. Multimedia Tools and Applications, 2020, 79, 9037-9061.	2.6	6
13	GUARDIAN: Blockchain-Based Secure Demand Response Management in Smart Grid System. IEEE Transactions on Services Computing, 2020, 13, 613-624.	3.2	84
14	MeSmart-Pro: Advanced Processing at the Edge for Smart Urban Monitoring and Reconfigurable Services. Journal of Sensor and Actuator Networks, 2020, 9, 55.	2.3	12
15	On the Applicability of Secret Share Algorithms for Osmotic Computing. , 2020, , .		4
16	Blockchain-Based Healthcare Workflow for Tele-Medical Laboratory in Federated Hospital IoT Clouds. Sensors, 2020, 20, 2590.	2.1	81
17	A Big Data Analytics Approach for the Development of Advanced Cardiology Applications. Information (Switzerland), 2020, 11, 60.	1.7	5
18	Modeling Usersâ€™ Performance: Predictive Analytics in an IoT Cloud Monitoring System. Lecture Notes in Computer Science, 2020, , 149-158.	1.0	2

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19	An Osmotic Ecosystem for Data Streaming Applications in Smart Cities. , 2020, , .		0
20	Improving Tele-Rehabilitation Therapy Through Machine Learning with a NoSQL Graph DBMS Approach. , 2020, , .		3
21	Business models for developing smart cities. A fuzzy set qualitative comparative analysis of an IoT platform. Technological Forecasting and Social Change, 2019, 142, 183-193.	6.2	36
22	An approach for the secure management of hybrid cloudâ€“edge environments. Future Generation Computer Systems, 2019, 90, 1-19.	4.9	38
23	A study on container virtualization for guarantee quality of service in Cloud-of-Things. Future Generation Computer Systems, 2019, 99, 356-364.	4.9	23
24	A Study on Join Operations in MongoDB Preserving Collections Data Models for Future Internet Applications. Future Internet, 2019, 11, 83.	2.4	19
25	Towards Hybrid Multi-Cloud Storage Systems: Understanding How to Perform Data Transfer. Big Data Research, 2019, 16, 1-17.	2.6	17
26	Infrastructureless IoT-as-a-Service for Public Safety and Disaster Response. , 2019, , .		4
27	Osmotic computing as a distributed multi-agent system: The Body Area Network scenario. Internet of Things (Netherlands), 2019, 5, 130-139.	4.9	22
28	How to Develop IoT Cloud e-Health Systems Based on FIWARE: A Lesson Learnt. Journal of Sensor and Actuator Networks, 2019, 8, 7.	2.3	30
29	Osmotic Flow Deployment Leveraging FaaS Capabilities. Lecture Notes in Computer Science, 2019, , 391-401.	1.0	5
30	On the Design of a Blockchain-as-a-Service-Based Health Information Exchange (BaaS-HIE) System for Patient Monitoring. , 2019, , .		15
31	A note on resource management techniques and systems for big data workflow processing. Computing (Vienna/New York), 2018, 100, 1-2.	3.2	5
32	Re-powering Service Provisioning in Federated Cloud Ecosystems: An Algorithm Combining Energy Sustainability and Cost-Saving Strategies. Communications in Computer and Information Science, 2018, , 19-33.	0.4	1
33	A Motivating Case Study for Coordinating Deployment of Security VNF in Federated Cloud Networks. Communications in Computer and Information Science, 2018, , 34-42.	0.4	0
34	Why Deep Learning Is Changing the Way to Approach NGS Data Processing: A Review. IEEE Reviews in Biomedical Engineering, 2018, 11, 68-76.	18.1	24
35	C4E: Cloud Brokering Platform for Federated Services Aimed at European Public Administrations. Communications in Computer and Information Science, 2018, , 187-191.	0.4	1
36	An OAIS-Based Hospital Information System on the Cloud: Analysis of a NoSQL Column-Oriented Approach. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 912-918.	3.9	22

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37	Exploiting Internet-of-Things: Platforms and Business Models. Springer Proceedings in Business and Economics, 2018, , 101-118.	0.3	2
38	An IoT Cloud System for Traffic Monitoring and Vehicular Accidents Prevention Based on Mobile Sensor Data Processing. IEEE Sensors Journal, 2018, 18, 4795-4802.	2.4	107
39	Big Data HIS of the IRCCS-ME Future: The Osmotic Computing Infrastructure. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 199-207.	0.2	2
40	Analysis of a NoSQL Graph DBMS for a Hospital Social Network. , 2018, , .		2
41	Basic Principles of Osmotic Computing: Secure and Dependable MicroElements (MELs) Orchestration Leveraging Blockchain Facilities. , 2018, , .		2
42	A Secure and Dependable Multi-Agent Autonomous Intersection Management (MA-AIM) System Leveraging Blockchain Facilities. , 2018, , .		24
43	A Microservices-Based Platform for Efficiently Managing Oceanographic Data. , 2018, , .		5
44	Osmotic Computing: Software Defined Membranes meet Private/Federated Blockchains. , 2018, , .		4
45	An Innovative Osmotic Computing Framework for Self Adapting City Traffic in Autonomous Vehicle Environment. , 2018, , .		8
46	Designing a FIWARE Cloud Solution for Making Your Travel Smoother: The FLIWARE Experience. , 2018, , .		5
47	Towards the Basic Principles of Osmotic Computing: A Closed-Loop Gamified Cognitive Rehabilitation Flow Model. , 2018, , .		4
48	Towards Osmotic Computing: Future Prospect for the Health Information Technology (HIT) Systems of ISASI-CNR (ME). , 2018, , .		1
49	Realizing Edge Marketplaces: Challenges and Opportunities. IEEE Cloud Computing, 2018, 5, 9-20.	5.3	12
50	A Note on the Convergence of IoT, Edge, and Cloud Computing in Smart Cities. IEEE Cloud Computing, 2018, 5, 22-24.	5.3	17
51	An Innovative MapReduce-Based Approach of Dijkstra's Algorithm for SDN Routing in Hybrid Cloud, Edge and IoT Scenarios. Lecture Notes in Computer Science, 2018, , 185-198.	1.0	3
52	Towards Osmotic Computing: Analyzing Overlay Network Solutions to Optimize the Deployment of Container-Based Microservices in Fog, Edge and IoT Environments. , 2018, , .		20
53	PEA: Parallel electrocardiogram-based authentication for smart healthcare systems. Journal of Network and Computer Applications, 2018, 117, 10-16.	5.8	140
54	From the Cloud to Edge and IoT: a Smart Orchestration Architecture for Enabling Osmotic Computing. , 2018, , .		23

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55	A Scalable Cloud-Edge Computing Framework for Supporting Device-Adaptive Big Media Provisioning. , 2018, , .		5
56	The Next Grand Challenges: Integrating the Internet of Things and Data Science. IEEE Cloud Computing, 2018, 5, 12-26.	5.3	74
57	Towards Osmotic Computing: Looking at Basic Principles and Technologies. Advances in Intelligent Systems and Computing, 2018, , 906-915.	0.5	14
58	Evaluating alternative DaaS solutions in private and public OpenStack Clouds. Software - Practice and Experience, 2017, 47, 1185-1200.	2.5	5
59	Osmotic Flow: Osmotic Computing + IoT Workflow. IEEE Cloud Computing, 2017, 4, 68-75.	5.3	45
60	End-To-End Security Architecture for Federated Cloud and IoT Networks. , 2017, , .		8
61	Are Next-Generation Sequencing Tools Ready for the Cloud?. Trends in Biotechnology, 2017, 35, 486-489.	4.9	21
62	Deployment orchestration of microservices with geographical constraints for Edge computing. , 2017, , .		17
63	Software Defined Membrane: Policy-Driven Edge and Internet of Things Security. IEEE Cloud Computing, 2017, 4, 92-99.	5.3	24
64	An approach to share MRI data over the Cloud preserving patients' privacy. , 2017, , .		6
65	A Distributed Edge Computing Architecture to Support Sensing and Detecting Leaks in Waterworks Based on Advanced FDM. IEEE Sensors Journal, 2017, 17, 7820-7827.	2.4	7
66	A Watchdog Service Making Container-Based Micro-services Reliable in IoT Clouds. , 2017, , .		15
67	Big MRI Data Dissemination and Retrieval in a Multi-Cloud Hospital Storage System. , 2017, , .		6
68	A Recommendation-Based Approach for Cloud Service Brokerage: A Case Study in Public Administration. , 2017, , .		4
69	Security in Lightweight Network Function Virtualisation for Federated Cloud and IoT. , 2017, , .		8
70	BOSS: A Multitenancy Ad-Hoc Service Orchestrator for Federated Openstack Clouds. , 2017, , .		4
71	Enabling Secure XMPP Communications in Federated IoT Clouds Through XEP 0027 and SAML/SASL SSO. Sensors, 2017, 17, 301.	2.1	13
72	Heart Disorder Detection with Menard Algorithm on Apache Spark. Lecture Notes in Computer Science, 2017, , 229-237.	1.0	5

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73	Osmotic Computing: A New Paradigm for Edge/Cloud Integration. IEEE Cloud Computing, 2016, 3, 76-83.	5.3	301
74	A Hybrid Storage Service for the Management of Big e-Health Data. , 2016, , .		3
75	Enforcement of global security policies in federated cloud networks with virtual network functions. , 2016, , .		4
76	Federated Networking Services in Multiple OpenStack Clouds. Communications in Computer and Information Science, 2016, , 338-352.	0.4	7
77	Characterizing Cloud Federation in IoT. , 2016, , .		49
78	A Federated System for MapReduce-Based Video Transcoding to Face the Future Massive Video-Selfie Sharing Trend. Communications in Computer and Information Science, 2016, , 48-62.	0.4	0
79	Design of an IoT Cloud System for Container Virtualization on Smart Objects. Communications in Computer and Information Science, 2016, , 33-47.	0.4	6
80	Exploring Container Virtualization in IoT Clouds. , 2016, , .		71
81	New trends in Biotechnology: The point on NGS Cloud computing solutions. , 2016, , .		8
82	An architecture for securing federated cloud networks with Service Function Chaining. , 2016, , .		4
83	Security and IoT Cloud Federation: Design of Authentication Schemes. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 337-346.	0.2	4
84	A hospital cloud-based archival information system for the efficient management of HL7 big data. , 2016, , .		17
85	Internet of Things and Edge Cloud Computing Roadmap for Manufacturing. IEEE Cloud Computing, 2016, 3, 66-73.	5.3	201
86	Leveraging the Internet of Things: Integration of Sensors and Cloud Computing Systems. International Journal of Distributed Sensor Networks, 2016, 12, 9764287.	1.3	13
87	Using Google Cloud Vision in assistive technology scenarios. , 2016, , .		31
88	Improving desktop as a Service in OpenStack. , 2016, , .		5
89	Enriched E-R model to design hybrid database for big data solutions. , 2016, , .		3
90	Open Issues in Scheduling Microservices in the Cloud. IEEE Cloud Computing, 2016, 3, 81-88.	5.3	121

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91	BEACON: A Cloud Network Federation Framework. Communications in Computer and Information Science, 2016, , 325-337.	0.4	21
92	Networking Introspection and Analysis for Virtual Machine Migration in Federated Clouds. Communications in Computer and Information Science, 2016, , 353-362.	0.4	0
93	Adding long-term availability, obfuscation, and encryption to multi-cloud storage systems. Journal of Network and Computer Applications, 2016, 59, 208-218.	5.8	78
94	A Scientometric Analysis of Cloud Computing and QoE Literature to Design a Cloud Platform of Experience for Digital Business. Communications in Computer and Information Science, 2016, , 276-288.	0.4	1
95	Future Internet: Cloud-Based Open Business Models. Lecture Notes in Information Systems and Organisation, 2016, , 51-62.	0.4	0
96	An approach to reduce energy costs through virtual machine migrations in cloud federation. , 2015, , .		8
97	Costs of a federated and hybrid cloud environment aimed at MapReduce video transcoding. , 2015, , .		2
98	How to Enhance Cloud Architectures to Enable Cross-Federation: Towards Interoperable Storage Providers. , 2015, , .		7
99	Big Data Storage in the Cloud for Smart Environment Monitoring. Procedia Computer Science, 2015, 52, 500-506.	1.2	69
100	Evaluating a cloud federation ecosystem to reduce carbon footprint by moving computational resources. , 2015, , .		8
101	Identity management in IoT Clouds: A FIWARE case of study. , 2015, , .		9
102	An Authentication Model for IoT Clouds. , 2015, , .		27
103	Exploiting the FIWARE cloud platform to develop a remote patient monitoring system. , 2015, , .		47
104	Towards the future internet: the RESERVOIR, VISION Cloud, and CloudWave experiences. International Journal of High Performance Computing and Networking, 2015, 8, 235.	0.4	6
105	Human-Computer Interface Based on IoT Embedded Systems for Users with Disabilities. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 376-383.	0.2	6
106	Towards energy management in Cloud federation: A survey in the perspective of future sustainable and cost-saving strategies. Computer Networks, 2015, 91, 438-452.	3.2	36
107	Providing Assistive Technology Applications as a Service Through Cloud Computing. Assistive Technology, 2015, 27, 44-51.	1.2	10
108	A sustainable energy-aware resource management strategy for IoT Cloud federation. , 2015, , .		11

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109	An integrated system for advanced water risk management based on cloud computing and IoT. , 2015, , .		14
110	A Secure Self-Identification Mechanism for Enabling IoT Devices to Join Cloud Computing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 306-311.	0.2	3
111	An approach to reduce carbon dioxide emissions through virtual machine migrations in a sustainable cloud federation. , 2015, , .		16
112	A computer system architecture providing a user-friendly man machine interface for accessing assistive technology in cloud computing. Journal of Systems and Software, 2015, 100, 129-138.	3.3	19
113	An Approach to Evaluate Applications Running on Web-Based Remote Virtual Machines in Cloud Computing. Communications in Computer and Information Science, 2015, , 106-117.	0.4	2
114	Towards the Integration between IoT and Cloud Computing: An Approach for the Secure Self-Configuration of Embedded Devices. International Journal of Distributed Sensor Networks, 2015, 11, 286860.	1.3	8
115	Embedded systems for supporting computer accessibility. Studies in Health Technology and Informatics, 2015, 217, 378-85.	0.2	1
116	Using embedded systems to spread assistive technology on multiple devices in smart environments. , 2014, , .		8
117	A Model for Accomplishing and Managing Dynamic Cloud Federations. , 2014, , .		5
118	CloudWave: Where adaptive cloud management meets DevOps. , 2014, , .		26
119	AllJoyn Lambda: An architecture for the management of smart environments in IoT. , 2014, , .		55
120	Using Virtualization and noVNC to Support Assistive Technology in Cloud Computing. , 2014, , .		12
121	The Need of a Hybrid Storage Approach for IoT in PaaS Cloud Federation. , 2014, , .		27
122	Automating the Hadoop configuration for easy setup in resilient cloud systems. , 2014, , .		1
123	Resource Management in Cloud Federation Using XMPP. , 2014, , .		1
124	From VISION Cloud to Cloudwave: Towards the Future Internet and a New Generation of Services. , 2014, , .		1
125	An Integrated System for Advanced Multi-risk Management Based on Cloud for IoT. Advances in Intelligent Systems and Computing, 2014, , 253-269.	0.5	8
126	Cloud Federation to Elastically Increase MapReduce Processing Resources. Lecture Notes in Computer Science, 2014, , 97-108.	1.0	3

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127	A Message Oriented Middleware for Cloud Computing To Improve Efficiency in Risk Management Systems. Scalable Computing, 2014, 14, .	0.7	3
128	Evaluating a File Fragmentation System for Multi-Provider Cloud Storage. Scalable Computing, 2014, 14, .	0.7	3
129	Delegation across storage clouds: on-boarding federation as a case study. Scalable Computing, 2014, 14, .	0.7	1
130	Remote and deep attestations to mitigate threats in Cloud Mash-Up services. , 2013, , .		6
131	SE CLEVER: A secure message oriented Middleware for Cloud federation. , 2013, , .		25
132	DRACO PaaS: A Distributed Resilient Adaptable Cloud Oriented Platform. , 2013, , .		20
133	Data On-Boarding in Federated Storage Clouds. , 2013, , .		25
134	Using Virtualization and Guacamole/VNC to Provide Adaptive User Interfaces to Disabled People in Cloud Computing. , 2013, , .		10
135	How cloud computing can support on-demand assistive services. , 2013, , .		19
136	Data Reliability in Multi-provider Cloud Storage Service with RRNS. Communications in Computer and Information Science, 2013, , 83-93.	0.4	10
137	How to exploit grid infrastructures for federated cloud purposes with CLEVER. International Journal of Computational Science and Engineering, 2013, 8, 253.	0.4	3
138	Delegation for On-boarding Federation Across Storage Clouds. Communications in Computer and Information Science, 2013, , 59-70.	0.4	0
139	Securing the External Interfaces of a Federated Infrastructure Cloud. , 2013, , 1876-1903.		0
140	Sensed Data Sharing in Cloud Federation for Advances in Health Information Exchange. International Journal on Measurement Technologies and Instrumentation Engineering, 2013, 3, 36-50.	0.3	0
141	How to Federate VISION Clouds through SAML/Shibboleth Authentication. Lecture Notes in Computer Science, 2012, , 259-274.	1.0	6
142	How the Dataweb Can Support Cloud Federation: Service Representation and Secure Data Exchange. , 2012, , .		18
143	How a structured testbed enables the rapid development and deployment of cloud services: The VISION Cloud use case. , 2012, , .		4
144	Integration of CLEVER clouds with third party software systems through a REST web service interface. , 2012, , .		15

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145	Virtual machine provisioning through satellite communications in federated Cloud environments. Future Generation Computer Systems, 2012, 28, 85-93.	4.9	34
146	Toward Cloud Federation. , 2012, , 1-17.		3
147	CLEVER. , 2012, , 219-241.		0
148	CLEVER: A Cloud Cross-Computing Platform Leveraging GRID Resources. , 2011, , .		3
149	A Remote Attestation Approach for a Secure Virtual Machine Migration in Federated Cloud Environments. , 2011, , .		14
150	An Approach to Enable Cloud Service Providers to Arrange IaaS, PaaS, and SaaS Using External Virtualization Infrastructures. , 2011, , .		15
151	How CLEVER-based clouds conceive horizontal and vertical federations. , 2011, , .		12
152	An Architecture for Federated Cloud Computing. , 2011, , 391-411.		14
153	Reservoir - When One Cloud Is Not Enough. Computer, 2011, 44, 44-51.	1.2	179
154	A Monitoring and Audit Logging Architecture for Data Location Compliance in Federated Cloud Infrastructures. , 2011, , .		59
155	An XRI naming system for dynamic and federated clouds: a performance analysis. Journal of Internet Services and Applications, 2011, 2, 191-205.	1.6	2
156	Credential Management Enforcement and Secure Data Storage in gLite. International Journal of Distributed Systems and Technologies, 2010, 1, 76-97.	0.6	0
157	Design of a cloud naming framework. , 2010, , .		1
158	Security and Cloud Computing: InterCloud Identity Management Infrastructure. , 2010, , .		70
159	How to Enhance Cloud Architectures to Enable Cross-Federation. , 2010, , .		230
160	Three-Phase Cross-Cloud Federation Model: The Cloud SSO Authentication. , 2010, , .		53
161	Ecosystem of Cloud Naming Systems: An Approach for the Management and Integration of Independent Cloud Name Spaces. , 2010, , .		1
162	Improving Virtual Machine Migration in Federated Cloud Environments. , 2010, , .		18

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163	A naming system applied to a RESERVOIR cloud. , 2010, , .		4
164	Design and Implementation of an XML-Based Grid File Storage System with Security Features. , 2009, , .		2
165	ALPAC: Automatic IP address configuration in mobile ad hoc networks. Computer Communications, 2006, 29, 1189-1200.	3.1	23
166	Hand tracking for human-computer interaction with Graylevel VisualGlove. , 2001, , .		16
167	An Innovative Open Source Middleware for Managing Virtual Resources in Federated Clouds. , 0, , 61-89.		1
168	Towards Energy Sustainability in Federated and Interoperable Clouds. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 329-350.	0.5	1
169	Towards Energy Sustainability in Federated and Interoperable Clouds. , 0, , 279-301.		1