# Massimo Villari

List of Publications by Year
in descending order



| 169 | 3,541 | 331538 | 233338 |
|---|---|---|---|
| papers | citations | 21 h-index | 45 g-index |

| 179 | 179 | 179 | 3356 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Osmotic Computing: A New Paradigm for Edge/Cloud Integration. IEEE Cloud Computing, 2016, 3, 76-83. | 5.3 | 301 |
| 2 | How to Enhance Cloud Architectures to Enable Cross-Federation. , 2010, , . | | 230 |
| 3 | Internet of Things and Edge Cloud Computing Roadmap for Manufacturing. IEEE Cloud Computing, 2016, 3, 66-73. | 5.3 | 201 |
| 4 | Reservoir - When One Cloud Is Not Enough. Computer, 2011, 44, 44-51. | 1.2 | 179 |
| 5 | PEA: Parallel electrocardiogram-based authentication for smart healthcare systems. Journal of Network and Computer Applications, 2018, 117, 10-16. | 5.8 | 140 |
| 6 | Open Issues in Scheduling Microservices in the Cloud. IEEE Cloud Computing, 2016, 3, 81-88. | 5.3 | 121 |
| 7 | 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 |
| 8 | GUARDIAN: Blockchain-Based Secure Demand Response Management in Smart Grid System. IEEE Transactions on Services Computing, 2020, 13, 613-624. | 3.2 | 84 |
| 9 | Blockchain-Based Healthcare Workflow for Tele-Medical Laboratory in Federated Hospital IoT Clouds. Sensors, 2020, 20, 2590. | 2.1 | 81 |
| 10 | 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 |
| 11 | The Next Grand Challenges: Integrating the Internet of Things and Data Science. IEEE Cloud Computing, 2018, 5, 12-26. | 5.3 | 74 |
| 12 | Exploring Container Virtualization in IoT Clouds. , 2016, , . | | 71 |
| 13 | Security and Cloud Computing: InterCloud Identity Management Infrastructure. , 2010, , . | | 70 |
| 14 | Big Data Storage in the Cloud for Smart Environment Monitoring. Procedia Computer Science, 2015, 52, 500-506. | 1.2 | 69 |
| 15 | A Monitoring and Audit Logging Architecture for Data Location Compliance in Federated Cloud Infrastructures. , 2011, , . | | 59 |
| 16 | AllJoyn Lambda: An architecture for the management of smart environments in IoT. , 2014, , . | | 55 |
| 17 | Three-Phase Cross-Cloud Federation Model: The Cloud SSO Authentication. , 2010, , . | | 53 |
| 18 | Characterizing Cloud Federation in IoT. , 2016, , . | | 49 |

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| 19 | Exploiting the FIWARE cloud platform to develop a remote patient monitoring system. , 2015, , . | | 47 |
| 20 | Osmotic Flow: Osmotic Computing + IoT Workflow. IEEE Cloud Computing, 2017, 4, 68-75. | 5.3 | 45 |
| 21 | 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 |
| 22 | An approach for the secure management of hybrid cloudâ€“edge environments. Future Generation Computer Systems, 2019, 90, 1-19. | 4.9 | 38 |
| 23 | 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 |
| 24 | 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 |
| 25 | Virtual machine provisioning through satellite communications in federated Cloud environments. Future Generation Computer Systems, 2012, 28, 85-93. | 4.9 | 34 |
| 26 | Using Google Cloud Vision in assistive technology scenarios. , 2016, , . | | 31 |
| 27 | 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 |
| 28 | The Need of a Hybrid Storage Approach for IoT in PaaS Cloud Federation. , 2014, , . | | 27 |
| 29 | An Authentication Model for IoT Clouds. , 2015, , . | | 27 |
| 30 | CloudWave: Where adaptive cloud management meets DevOps. , 2014, , . | | 26 |
| 31 | SE CLEVER: A secure message oriented Middleware for Cloud federation. , 2013, , . | | 25 |
| 32 | Data On-Boarding in Federated Storage Clouds. , 2013, , . | | 25 |
| 33 | Software Defined Membrane: Policy-Driven Edge and Internet of Things Security. IEEE Cloud Computing, 2017, 4, 92-99. | 5.3 | 24 |
| 34 | Why Deep Learning Is Changing the Way to Approach NGS Data Processing: A Review. IEEE Reviews in Biomedical Engineering, 2018, 11, 68-76. | 13.1 | 24 |
| 35 | A Secure and Dependable Multi-Agent Autonomous Intersection Management (MA-AIM) System Leveraging Blockchain Facilities. , 2018, , . | | 24 |
| 36 | AIPAC: Automatic IP address configuration in mobile ad hoc networks. Computer Communications, 2006, 29, 1189-1200. | 3.1 | 23 |

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|---|---|---|---|
| 37 | From the Cloud to Edge and IoT: a Smart Orchestration Architecture for Enabling Osmotic Computing. , 2018, , . | | 23 |
| 38 | 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 |
| 39 | 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 |
| 40 | Osmotic computing as a distributed multi-agent system: The Body Area Network scenario. Internet of Things (Netherlands), 2019, 5, 130-139. | 4.9 | 22 |
| 41 | BEACON: A Cloud Network Federation Framework. Communications in Computer and Information Science, 2016, , 325-337. | 0.4 | 21 |
| 42 | Are Next-Generation Sequencing Tools Ready for the Cloud?. Trends in Biotechnology, 2017, 35, 486-489. | 4.9 | 21 |
| 43 | DRACO PaaS: A Distributed Resilient Adaptable Cloud Oriented Platform. , 2013, , . | | 20 |
| 44 | Towards Osmotic Computing: Analyzing Overlay Network Solutions to Optimize the Deployment of Container-Based Microservices in Fog, Edge and IoT Environments. , 2018, , . | | 20 |
| 45 | How cloud computing can support on-demand assistive services. , 2013, , . | | 19 |
| 46 | 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 |
| 47 | A Study on Join Operations in MongoDB Preserving Collections Data Models for Future Internet Applications. Future Internet, 2019, 11, 83. | 2.4 | 19 |
| 48 | Improving Virtual Machine Migration in Federated Cloud Environments. , 2010, , . | | 18 |
| 49 | How the Dataweb Can Support Cloud Federation: Service Representation and Secure Data Exchange. , 2012, , . | | 18 |
| 50 | A hospital cloud-based archival information system for the efficient management of HL7 big data. , 2016, , . | | 17 |
| 51 | Deployment orchestration of microservices with geographical constraints for Edge computing. , 2017, , . | | 17 |
| 52 | A Note on the Convergence of IoT, Edge, and Cloud Computing in Smart Cities. IEEE Cloud Computing, 2018, 5, 22-24. | 5.3 | 17 |
| 53 | Towards Hybrid Multi-Cloud Storage Systems: Understanding How to Perform Data Transfer. Big Data Research, 2019, 16, 1-17. | 2.6 | 17 |
| 54 | Hand tracking for human-computer interaction with Graylevel VisualGlove. , 2001, , . | | 16 |

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| 55 | An approach to reduce carbon dioxide emissions through virtual machine migrations in a sustainable cloud federation. , 2015, , . | | 16 |
| 56 | An Approach to Enable Cloud Service Providers to Arrange IaaS, PaaS, and Saas Using External Virtualization Infrastructures. , 2011, , . | | 15 |
| 57 | Integration of CLEVER clouds with third party software systems through a REST web service interface. , 2012, , . | | 15 |
| 58 | A Watchdog Service Making Container-Based Micro-services Reliable in IoT Clouds. , 2017, , . | | 15 |
| 59 | On the Design of a Blockchain-as-a-Service-Based Health Information Exchange (BaaS-HIE) System for Patient Monitoring. , 2019, , . | | 15 |
| 60 | A Remote Attestation Approach for a Secure Virtual Machine Migration in Federated Cloud Environments. , 2011, , . | | 14 |
| 61 | An Architecture for Federated Cloud Computing. , 2011, , 391-411. | | 14 |
| 62 | An integrated system for advanced water risk management based on cloud computing and IoT. , 2015, , . | | 14 |
| 63 | Towards Osmotic Computing: Looking at Basic Principles and Technologies. Advances in Intelligent Systems and Computing, 2018, , 906-915. | 0.5 | 14 |
| 64 | Leveraging the Internet of Things: Integration of Sensors and Cloud Computing Systems. International Journal of Distributed Sensor Networks, 2016, 12, 9764287. | 1.3 | 13 |
| 65 | Enabling Secure XMPP Communications in Federated IoT Clouds Through XEP 0027 and SAML/SASL SSO. Sensors, 2017, 17, 301. | 2.1 | 13 |
| 66 | How CLEVER-based clouds conceive horizontal and vertical federations. , 2011, , . | | 12 |
| 67 | Using Virtualization and noVNC to Support Assistive Technology in Cloud Computing. , 2014, , . | | 12 |
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| 70 | A sustainable energy-aware resource management strategy for IoT Cloud federation. , 2015, , . | | 11 |
| 71 | Using Virtualization and Guacamole/VNC to Provide Adaptive User Interfaces to Disabled People in Cloud Computing. , 2013, , . | | 10 |
| 72 | Data Reliability in Multi-provider Cloud Storage Service with RRNS. Communications in Computer and Information Science, 2013, , 83-93. | 0.4 | 10 |

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| 74 | Identity management in IoT Clouds: A FIWARE case of study. , 2015, , . | | 9 |
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| 77 | Evaluating a cloud federation ecosystem to reduce carbon footprint by moving computational resources. , 2015, , . | | 8 |
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| 79 | End-To-End Security Architecture for Federated Cloud and IoT Networks. , 2017, , . | | 8 |
| 80 | Security in Lightweight Network Function Virtualisation for Federated Cloud and IoT. , 2017, , . | | 8 |
| 81 | An Innovative Osmotic Computing Framework for Self Adapting City Traffic in Autonomous Vehicle Environment. , 2018, , . | | 8 |
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| 84 | How to Enhance Cloud Architectures to Enable Cross-Federation: Towards Interoperable Storage Providers. , 2015, , . | | 7 |
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| 88 | How to Federate VISION Clouds through SAML/Shibboleth Authentication. Lecture Notes in Computer Science, 2012, , 259-274. | 1.0 | 6 |
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| 92 | Design of an IoT Cloud System for Container Virtualization on Smart Objects. Communications in Computer and Information Science, 2016, , 33-47. | 0.4 | 6 |
| 93 | An approach to share MRI data over the Cloud preserving patients' privacy. , 2017, , . | | 6 |
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| 95 | A big video data transcoding service for social media over federated clouds. Multimedia Tools and Applications, 2020, 79, 9037-9061. | 2.6 | 6 |
| 96 | 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 |
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| 103 | A Scalable Cloud-Edge Computing Framework for Supporting Device-Adaptive Big Media Provisioning. , 2018, , . | | 5 |
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| 107 | Overcoming security limitations of Secret Share techniques: the Nested Secret Share. , 2021, , . | | 5 |
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| 110 | Enforcement of global security policies in federated cloud networks with virtual network functions. , 2016, , . | | 4 |
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| 112 | 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 |
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| 116 | Towards the Basic Principles of Osmotic Computing: A Closed-Loop Gamified Cognitive Rehabilitation Flow Model. , 2018, , . | | 4 |
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| 120 | Recent Considerations on Gaming Console Based Training for Multiple Sclerosis Rehabilitation. Medical Sciences (Basel, Switzerland), 2022, 10, 13. | 1.3 | 4 |
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| 127 | Virtual Device Model extending NGSI-LD for FaaS at the Edge. , 2021, , . | | 3 |
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| 130 | Evaluating a File Fragmentation System for Multi-Provider Cloud Storage. Scalable Computing, 2014, 14, . | 0.7 | 3 |
| 131 | Toward Cloud Federation. , 2012, , 1-17. | | 3 |
| 132 | Improving Tele-Rehabilitation Therapy Through Machine Learning with a NoSQL Graph DBMS Approach. , 2020, , . | | 3 |
| 133 | Multi Hop Reconfiguration of End-Devices in Heterogeneous Edge-IoT Mesh Networks. , 2021, , . | | 3 |
| 134 | Design and Implementation of an XML-Based Grid File Storage System with Security Features. , 2009, , . | | 2 |
| 135 | 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 |
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| 139 | Analysis of a NoSQL Graph DBMS for a Hospital Social Network. , 2018, , . | | 2 |
| 140 | Basic Principles of Osmotic Computing: Secure and Dependable MicroElements (MELs) Orchestration Leveraging Blockchain Facilities. , 2018, , . | | 2 |
| 141 | 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 |
| 142 | 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 |
| 143 | Modeling Usersâ€™ Performance: Predictive Analytics in an IoT Cloud Monitoring System. Lecture Notes in Computer Science, 2020, , 149-158. | 1.0 | 2 |
| 144 | Design of a cloud naming framework. , 2010, , . | | 1 |

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| 145 | Ecosystem of Cloud Naming Systems: An Approach for the Management and Integration of Independent Cloud Name Spaces. , 2010, , . | | 1 |
| 146 | Automating the Hadoop configuration for easy setup in resilient cloud systems. , 2014, , . | | 1 |
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| 148 | From VISION Cloud to Cloudwave: Towards the Future Internet and a New Generation of Services. , 2014, , . | | 1 |
| 149 | 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 |
| 150 | C4E: Cloud Brokering Platform for Federated Services Aimed at European Public Administrations. Communications in Computer and Information Science, 2018, , 187-191. | 0.4 | 1 |
| 151 | Towards Osmotic Computing: Future Prospect for the Health Information Technology (HIT) Systems of ISASI-CNR (ME). , 2018, , . | | 1 |
| 152 | OCE-DNS: an innovative Osmotic Computing Enabled Domain Name System. , 2021, , . | | 1 |
| 153 | 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 |
| 154 | Delegation across storage clouds: on-boarding federation as a case study. Scalable Computing, 2014, 14, . | 0.7 | 1 |
| 155 | An Innovative Open Source Middleware for Managing Virtual Resources in Federated Clouds. , 0, , 61-89. | | 1 |
| 156 | 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 |
| 157 | Towards Energy Sustainability in Federated and Interoperable Clouds. , 0, , 279-301. | | 1 |
| 158 | Embedded systems for supporting computer accessibility. Studies in Health Technology and Informatics, 2015, 217, 378-85. | 0.2 | 1 |
| 159 | Credential Management Enforcement and Secure Data Storage in gLite. International Journal of Distributed Systems and Technologies, 2010, 1, 76-97. | 0.6 | 0 |
| 160 | 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 |
| 161 | Networking Introspection and Analysis for Virtual Machine Migration in Federated Clouds. Communications in Computer and Information Science, 2016, , 353-362. | 0.4 | 0 |
| 162 | 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 |

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| 166 | 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 |
| 167 | Future Internet: Cloud-Based Open Business Models. Lecture Notes in Information Systems and Organisation, 2016, , 51-62. | 0.4 | 0 |
| 168 | An Osmotic Ecosystem for Data Streaming Applications in Smart Cities. , 2020, , . | | 0 |
| 169 | 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 |