

Massimiliano Rak

List of Publications by Year in descending order

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131
papers

1,535
citations

471061

17
h-index

500791

28
g-index

139
all docs

139
docs citations

139
times ranked

918
citing authors

#	ARTICLE	IF	CITATIONS
1	Security and Privacy Service Level Agreement composition for Internet of Things systems on top of standard controls. Computers and Electrical Engineering, 2022, 98, 107690.	3.0	3
2	ESSecA: An automated expert system for threat modelling and penetration testing for IoT ecosystems. Computers and Electrical Engineering, 2022, 99, 107721.	3.0	21
3	A Conceptual Model for the General Data Protection Regulation. Lecture Notes in Computer Science, 2021, , 60-77.	1.0	3
4	Threat Modeling of Edge-Based IoT Applications. Communications in Computer and Information Science, 2021, , 282-296.	0.4	5
5	Design and Development of a Technique for the Automation of the Risk Analysis Process in IT Security. , 2021, , .		9
6	Demystifying the role of public intrusion datasets: A replication study of DoS network traffic data. Computers and Security, 2021, 108, 102341.	4.0	17
7	A Cloud SecDevOps Methodology: From Design to Testing. Communications in Computer and Information Science, 2020, , 317-331.	0.4	6
8	A novel Security-by-Design methodology: Modeling and assessing security by SLAs with a quantitative approach. Journal of Systems and Software, 2020, 163, 110537.	3.3	35
9	2L-ZED-IDS: A Two-Level Anomaly Detector for Multiple Attack Classes. Advances in Intelligent Systems and Computing, 2020, , 687-696.	0.5	23
10	A (in)Secure-by-Design IoT Protocol. , 2020, , .		2
11	Threat Modeling based Penetration Testing: The Open Energy Monitor Case study. , 2020, , .		7
12	A case study on the representativeness of public DoS network traffic data for cybersecurity research. , 2020, , .		1
13	Auto-scaling Applications in the Cloud by Simple Indexes with Complex Loads. , 2020, , .		1
14	A Proposal of a Cloud-Oriented Security and Performance Simulator Provided as-a-Service. Advances in Intelligent Systems and Computing, 2019, , 1002-1011.	0.5	0
15	Service level agreementà€based GDPR compliance and security assurance in(multi)Cloudà€based systems. IET Software, 2019, 13, 213-222.	1.5	22
16	Toward the automation of threat modeling and risk assessment in IoT systems. Internet of Things (Netherlands), 2019, 7, 100056.	4.9	52
17	Model-based deployment of secure multi-cloud applications. International Journal of Grid and Utility Computing, 2019, 10, 639.	0.1	2
18	Discovery of DoS attacks by the ZED-IDS anomaly detector. Journal of High Speed Networks, 2019, 25, 349-365.	0.6	18

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19	Automated Risk Analysis for IoT Systems. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 265-275.	0.5	3
20	Security-by-design in multi-cloud applications: An optimization approach. Information Sciences, 2018, 454-455, 344-362.	4.0	15
21	A Security Metric Catalogue for Cloud Applications. Advances in Intelligent Systems and Computing, 2018, , 854-863.	0.5	4
22	A Security SLA-Driven Moving Target Defense Framework to Secure Cloud Applications. , 2018, , .		1
23	Per-service security SLAs for cloud security management: model and implementation. International Journal of Grid and Utility Computing, 2018, 9, 128.	0.1	8
24	Towards Automated Penetration Testing for Cloud Applications. , 2018, , .		13
25	Automatically Enforcing Security SLAs in the Cloud. IEEE Transactions on Services Computing, 2017, 10, 741-755.	3.2	30
26	Secure microGRID in Cloud: The CoSSMic Case Study. Lecture Notes in Computer Science, 2017, , 759-772.	1.0	0
27	Security Assurance of (Multi-)Cloud Application with Security SLA Composition. Lecture Notes in Computer Science, 2017, , 786-799.	1.0	21
28	Security SLAs for Cloud Services: Hadoop Case Study. Lecture Notes in Information Systems and Organisation, 2017, , 103-114.	0.4	0
29	MUSA Deployer: Deployment of Multi-cloud Applications. , 2017, , .		9
30	Dynamic security assurance in multi-cloud DevOps. , 2017, , .		9
31	Malware Detection for Secure Microgrids: CoSSMic Case Study. , 2017, , .		3
32	SLAs for cloud applications: agreement protocol and REST-based implementation. International Journal of Grid and Utility Computing, 2017, 8, 120.	0.1	2
33	An Automatic Tool for Benchmark Testing of Cloud Applications. , 2017, , .		3
34	SLAs for cloud applications: agreement protocol and REST-based implementation. International Journal of Grid and Utility Computing, 2017, 8, 120.	0.1	1
35	Security SLA in Next Generation Data Centers, the SPECS Approach. Communications in Computer and Information Science, 2017, , 151-169.	0.4	0
36	A Security SLA-driven Methodology to Set-Up Security Capabilities on Top of Cloud Services. , 2016, , .		2

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37	Cloud Challenges towards Free Flow of Data. <i>Procedia Computer Science</i> , 2016, 97, 135-139.	1.2	0
38	SLA-Driven Monitoring of Multi-cloud Application Components Using the MUSA Framework. , 2016, , .		10
39	Per-Service Security SLa: A New Model for Security Management in Clouds. , 2016, , .		11
40	A framework for cloud-aware development of bag-of-tasks scientific applications. <i>International Journal of Grid and Utility Computing</i> , 2016, 7, 130.	0.1	5
41	Security-by-design in Clouds: A Security-SLA Driven Methodology to Build Secure Cloud Applications. <i>Procedia Computer Science</i> , 2016, 97, 53-62.	1.2	29
42	Cloud Security: From Per-Provider to Per-Service Security SLAs. , 2016, , .		2
43	Economic Denial of Sustainability Mitigation in Cloud Computing. <i>Lecture Notes in Information Systems and Organisation</i> , 2016, , 229-238.	0.4	7
44	Towards a Proof-based SLA Management Framework. , 2016, , .		1
45	On the Next Generations of Infrastructure-as-a-Services. , 2016, , .		1
46	Providing Security SLA in Next Generation Data Centers with SPECS: The EMC Case Study. , 2016, , .		2
47	Methodology to Obtain the Security Controls in Multi-cloud Applications. , 2016, , .		8
48	SLA-based Secure Cloud Application Development. <i>Scalable Computing</i> , 2016, 17, .	0.7	0
49	SLA-Based Secure Cloud Application Development: The SPECS Framework. , 2015, , .		14
50	Performance prediction of cloud applications through benchmarking and simulation. <i>International Journal of Computational Science and Engineering</i> , 2015, 11, 46.	0.4	10
51	Cloud Evaluation: Benchmarking and Monitoring. , 2015, , 175-199.		5
52	Planting parallel program simulation on the cloud. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 1467-1482.	1.4	4
53	DoS Protection in the Cloud through the SPECS Services. , 2015, , .		0
54	Prediction of cost and performance of cloud applications. <i>International Journal of Cloud Computing</i> , 2015, 4, 28.	0.3	1

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55	Security Monitoring in the Cloud: An SLA-Based Approach. , 2015, , .		14
56	REST-Based SLA Management for Cloud Applications. , 2015, , .		14
57	Stealthy Denial of Service Strategy in Cloud Computing. IEEE Transactions on Cloud Computing, 2015, 3, 80-94.	3.1	82
58	On the Adoption of Security SLAs in the Cloud. Lecture Notes in Computer Science, 2015, , 45-62.	1.0	10
59	Early Prediction of the Cost of Cloud Usage for HPC Applications. Scalable Computing, 2015, 16, .	0.7	1
60	Towards Self-Protective Multi-Cloud Applications - MUSA â€™ a Holistic Framework to Support the Security-Intelligent Lifecycle Management of Multi-Cloud Applications. , 2015, , .		13
61	An SLA-based brokering platform to provide sensor networks as-a-service. International Journal of Business Process Integration and Management, 2014, 7, 114.	0.2	0
62	A Portable Tool for Running MPI Applications in the Cloud. , 2014, , .		2
63	Cloud-Aware Development of Scientific Applications. , 2014, , .		1
64	Early Prediction of the Cost of HPC Application Execution in the Cloud. , 2014, , .		3
65	SecLA-Based Negotiation and Brokering of Cloud Resources. Communications in Computer and Information Science, 2014, , 1-18.	0.4	1
66	Developing Secure Cloud Applications. Scalable Computing, 2014, 15, .	0.7	1
67	SecLA-Based Negotiation and Brokering of Cloud Resources. Communications in Computer and Information Science, 2014, , 1-18.	0.4	1
68	Experiences in building a mOSAIC of clouds. Journal of Cloud Computing: Advances, Systems and Applications, 2013, 2, 12.	2.1	75
69	Open-Source Cloudware Support for the Portability of Applications Using Cloud Infrastructure Services. Computer Communications and Networks, 2013, , 323-341.	0.8	7
70	Security as a Service Using an SLA-Based Approach via SPECS. , 2013, , .		43
71	An SLA-Based Approach to Manage Sensor Networks as-a-Service. , 2013, , .		5
72	Cost/Performance Evaluation for Cloud Applications Using Simulation. , 2013, , .		10

#	ARTICLE	IF	CITATIONS
73	Developing Secure Cloud Applications: A Case Study. , 2013, , .		1
74	An SLA-based Broker for Cloud Infrastructures. Journal of Grid Computing, 2013, 11, 1-25.	2.5	80
75	The CloudGrid approach: Security analysis and performance evaluation. Future Generation Computer Systems, 2013, 29, 387-401.	4.9	22
76	A Proposal of a Simulation-Based Approach for Service Level Agreement in Cloud. , 2013, , .		4
77	Concurrent simulation in the cloud with the mJADES framework. International Journal of Simulation and Process Modelling, 2013, 8, 212.	0.1	0
78	SLA-Oriented Security Provisioning for Cloud Computing. Communications in Computer and Information Science, 2013, , 230-244.	0.4	1
79	Access Control in Federated Clouds. , 2013, , 148-169.		0
80	The mOSAIC Benchmarking Framework: Development and Execution of Custom Cloud Benchmarks. Scalable Computing, 2013, 14, .	0.7	4
81	Intrusion Tolerance in Cloud Applications: The mOSAIC Approach. , 2012, , .		14
82	mJADES: Concurrent Simulation in the Cloud. , 2012, , .		23
83	Cloud-Based Concurrent Simulation at Work: Fast Performance Prediction of Parallel Programs. , 2012, , .		3
84	Benchmarks in the Cloud: The mOSAIC Benchmarking Framework. , 2012, , .		6
85	Ontology-based Negotiation of security requirements in cloud. , 2012, , .		5
86	An intrusion detection framework for supporting SLA assessment in Cloud Computing. , 2012, , .		21
87	User Centric Service Level Management in mOSAIC Applications. Lecture Notes in Computer Science, 2012, , 106-115.	1.0	13
88	Security Issues in Cloud Federations. , 2012, , 176-194.		7
89	Performance Analysis of an OCSF-Based Authentication Protocol for VANETs. International Journal of Adaptive Resilient and Autonomic Systems, 2012, 3, 19-45.	0.3	4
90	Access Control in Federated Clouds. , 2012, , 395-417.		1

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91	Intrusion Tolerant Approach for Denial of Service Attacks to Web Services. , 2011, , .		24
92	CHASE: An Autonomic Service Engine for Cloud Environments. , 2011, , .		12
93	Cloud Application Monitoring: The mOSAIC Approach. , 2011, , .		54
94	A SLA-based interface for security management in cloud and GRID integrations. , 2011, , .		18
95	A Cloud Agency for SLA Negotiation and Management. Lecture Notes in Computer Science, 2011, , 587-594.	1.0	50
96	Building an interoperability API for Sky computing. , 2011, , .		41
97	QoS Management in Cloud@Home Infrastructures. , 2011, , .		19
98	Architecturing a Sky Computing Platform. Lecture Notes in Computer Science, 2011, , 1-13.	1.0	34
99	Cloud@Home: Performance Management Components. Lecture Notes in Computer Science, 2011, , 579-586.	1.0	1
100	Security and Performance Trade-off in PerfCloud. Lecture Notes in Computer Science, 2011, , 633-640.	1.0	5
101	An interoperability system for authentication and authorisation in VANETs. International Journal of Autonomous and Adaptive Communications Systems, 2010, 3, 115.	0.2	4
102	Instantaneous Load Dependent Servers (iLDS) Model for Web Services. , 2010, , .		0
103	Autonomic Composite-service Architecture with MAWeS. , 2010, , .		1
104	Identity federation in cloud computing. , 2010, , .		15
105	Cloud Agency: A Mobile Agent Based Cloud System. , 2010, , .		57
106	A Service for Virtual Cluster Performance Evaluation. , 2010, , .		7
107	PerfCloud: Performance-Oriented Integration of Cloud and GRID. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 93-102.	0.2	5
108	Web Services Resilience Evaluation using LDS Load dependent Server Models.. Journal of Communications, 2010, 5, .	1.3	7

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109	PerfCloud: GRID Services for Performance-Oriented Development of Cloud Computing Applications. , 2009, , .		25
110	Self-optimization of secure web services. Computer Communications, 2008, 31, 4312-4323.	3.1	8
111	Simulation-based optimization of multiple-task GRID applications. Future Generation Computer Systems, 2008, 24, 594-604.	4.9	2
112	Message from General Chair(s). , 2008, , .		0
113	Optimizing secure Web Services with MAWeS: A case study. , 2007, , .		0
114	Static evaluation of Certificate Policies for GRID PKIs interoperability. , 2007, , .		5
115	Cluster systems and simulation: from benchmarking to off-line performance prediction. Concurrency Computation Practice and Experience, 2007, 19, 1549-1562.	1.4	10
116	A Framework for Mobile Agent Platform performance Evaluation. , 2007, , .		1
117	Interoperable Grid PKIs Among Untrusted Domains: An Architectural Proposal. , 2007, , 39-51.		6
118	Autonomic Web service development with MAWeS. , 2006, , .		4
119	A SLA evaluation methodology in Service Oriented Architectures. , 2006, , 119-130.		28
120	Predictive Autonomicity of Web Services in the MAWeS Framework. Journal of Computer Science, 2006, 2, 513-520.	0.5	16
121	Performance Oriented Development and Tuning of GRID Applications. Lecture Notes in Computer Science, 2006, , 509-518.	1.0	0
122	Performance prediction through simulation of a hybrid MPI/OpenMP application. Parallel Computing, 2005, 31, 1013-1033.	1.3	23
123	Self-optimizing MPI Applications: A Simulation-Based Approach. Lecture Notes in Computer Science, 2005, , 143-155.	1.0	2
124	An Innovative Policy-Based Cross Certification Methodology for Public Key Infrastructures. Lecture Notes in Computer Science, 2005, , 100-117.	1.0	12
125	Security level evaluation: policy and fuzzy techniques. , 2004, , .		6
126	Performance simulation of a hybrid openMP/MPI application with HeSSE. Advances in Parallel Computing, 2004, , 803-810.	0.3	2

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127	A Performance-Oriented Technique for Hybrid Application Development. Lecture Notes in Computer Science, 2004, , 378-387.	1.0	1
128	Performance modeling of scientific applications: scalability analysis of LAPWO. , 2003, , .		1
129	A Simulation-Based Framework for Autonomic Web Services. , 0, , .		9
130	Performance-Driven Development of a Web Services Application using MetaPL/HeSSE. , 0, , .		9
131	Design and implementation of TruMan, a Trust Manager Component for Distributed Systems. , 0, , .		1