Joaquin Garcia-Alfaro

List of Publications by Citations

144	912	15	22
papers	citations	h-index	g-index
184	1,108	1.8	4.47
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
144	Complete analysis of configuration rules to guarantee reliable network security policies. *International Journal of Information Security*, **2008**, 7, 103-122	2.8	61
143	Exploring DWT−SVD−DCT feature parameters for robust multiple watermarking against JPEG and JPEG2000 compression. *Computers and Electrical Engineering*, **2015**, 41, 52-63	4.3	35
142	J3Gen: a PRNG for low-cost passive RFID. *Sensors*, **2013**, 13, 3816-30	3.8	35
141	Analysis and Improvement of a Pseudorandom Number Generator for EPC Gen2 Tags. *Lecture Notes in Computer Science*, **2010**, 34-46	0.9	27
140	A multipath routing strategy to prevent flooding disruption attacks in link state routing protocols for MANETs. *Journal of Network and Computer Applications*, **2013**, 36, 744-755	7.9	26
139	Selecting optimal countermeasures for attacks against critical systems using the attack volume model and the RORI index. *Computers and Electrical Engineering*, **2015**, 47, 13-34	4.3	23
138	Dynamic deployment of context-aware access control policies for constrained security devices. *Journal of Systems and Software*, **2011**, 84, 1144-1159	3.3	22
137	On the Difficulty of Hiding the Balance of Lightning Network Channels **2019**,		20
136	On the use of watermark-based schemes to detect cyber-physical attacks. *Eurasip Journal on Information Security*, **2017**, 2017,	3.8	19
135	Anti-correlation as a criterion to select appropriate counter-measures in an intrusion detection framework. *Annales Des Telecommunications/Annals of Telecommunications*, **2006**, 61, 197-217	2	19
134	A Practical Implementation Attack on Weak Pseudorandom Number Generator Designs for EPC Gen2 Tags. *Wireless Personal Communications*, **2011**, 59, 27-42	1.9	18
133	Dynamic risk management response system to handle cyber threats. *Future Generation Computer Systems*, **2018**, 83, 535-552	7.5	17
132	CACEV: A Cost and Carbon Emission-Efficient Virtual Machine Placement Method for Green Distributed Clouds **2016**,		17
131	Decentralized Publish-Subscribe System to Prevent Coordinated Attacks via Alert Correlation. *Lecture Notes in Computer Science*, **2004**, 223-235	0.9	16
130	Management of stateful firewall misconfiguration. *Computers and Security*, **2013**, 39, 64-85	4.9	15
129	MIRAGE: A Management Tool for the Analysis and Deployment of Network Security Policies. *Lecture Notes in Computer Science*, **2011**, 203-215	0.9	15
128	Analysis of Policy Anomalies on Distributed Network Security Setups. *Lecture Notes in Computer Science*, **2006**, 496-511	0.9	14

109	Using a 3D Geometrical Model to Improve Accuracy in the Evaluation and Selection of Countermeasures Against Complex Cyber Attacks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 538-555	0.2	8
108	Event-Triggered Watermarking Control to Handle Cyber-Physical Integrity Attacks. *Lecture Notes in Computer Science*, **2016**, 3-19	0.9	8
107	Prevention of Cross-Site Scripting Attacks on Current Web Applications **2007**, 1770-1784		8
106	Anonymous Resolution of DNS Queries. *Lecture Notes in Computer Science*, **2008**, 987-1000	0.9	8
105	Doppler Effect in the Acoustic Ultra Low Frequency Band for Wireless Underwater Networks. *Mobile Networks and Applications*, **2018**, 23, 1282-1292	2.9	7
104	KEDGEN2: A key establishment and derivation protocol for EPC Gen2 RFID systems. *Journal of Network and Computer Applications*, **2014**, 39, 152-166	7.9	7
103	(mathcal {PCS}), A Privacy-Preserving Certification Scheme. *Lecture Notes in Computer Science*, **2017**, 239-256	0.9	7
102	Automated Classification of C&C Connections Through Malware URL Clustering. *IFIP Advances in Information and Communication Technology*, **2015**, 252-266	0.5	7
101	A model-driven approach for the extraction of network access-control policies **2012**,		7
100	Mitigation of topology control traffic attacks in OLSR networks **2010**,		7
99	Towards Filtering and Alerting Rule Rewriting on Single-Component Policies. *Lecture Notes in Computer Science*, **2006**, 182-194	0.9	7
98	LockDown: Balance Availability Attack Against Lightning Network Channels. *Lecture Notes in Computer Science*, **2020**, 245-263	0.9	7
97	Security and Privacy Concerns About the RFID Layer of EPC Gen2 Networks. *Studies in Computational Intelligence*, **2015**, 303-324	0.8	7
96	Data Privacy Management, Cryptocurrencies and Blockchain Technology. *Lecture Notes in Computer Science*, **2017**,	0.9	7
95	Simulation of underwater communications with a colored noise approximation and mobility **2015**,		6
94	Tuning the demodulation frequency based on a normalized trajectory model for mobile underwater acoustic communications. *Transactions on Emerging Telecommunications Technologies*, **2019**, 30, e3712	1.9	6
93	Classification of SSL Servers based on their SSL Handshake for Automated Security Assessment **2014**,		6
92	Securing the Communications of Home Health Care Systems Based on RFID Sensor Networks **2010**,		6

91	Analysis of Threats to the Security of EPC Networks **2008**,		6
90	Security Threats on EPC Based RFID Systems **2008**,		6
89	Aggregating and Deploying Network Access Control Policies **2007**,		6
88	Management of Exceptions on Access Control Policies. *International Federation for Information Processing*, **2007**, 97-108		6
87	The Influence of Conception Paradigms on Data Protection in E-Learning Platforms: A Case Study. *IEEE Access*, **2019**, 7, 64110-64119	3.5	5
86	The Sound of Communication in Underwater Acoustic Sensor Networks. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2018**, 13-23	0.2	5
85	Semantic analysis of role mining results and shadowed roles detection. *Information Security Technical Report*, **2013**, 17, 131-147		5
84	Anonymous Certification for an e-Assessment Framework. *Lecture Notes in Computer Science*, **2017**, 70-85	5.9	5
83	HADEGA: A novel MPLS-based mitigation solution to handle network attacks **2012**,		5
82	Doppler Effect in the Underwater Acoustic Ultra Low Frequency Band. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2018**, 3-12	0.2	5
81	Selection of Pareto-efficient response plans based on financial and operational assessments. *Eurasip Journal on Information Security*, **2017**, 2017,	3.8	4
80	Cyber-physical architecture assisted by programmable networking. *Internet Technology Letters*, **2018**, 1, e44	1.3	4
79	Integration of an adaptive trust-based e-assessment system into virtual learning environmentsⅢhe TeSLA project experience. *Internet Technology Letters*, **2018**, 1, e56	1.3	4
78	A new analysis of the cognitive radio jump-stay algorithm under the asymmetric model **2014**,		4
77	Towards Automated Assistance for Mined Roles Analysis in Role Mining Applications **2012**,		4
76	Data and Applications Security and Privacy XXVI. *Lecture Notes in Computer Science*, **2012**,	0.9	4
75	Fine-grained privacy control for the RFID middleware of EPCglobal networks **2013**,		4
74	Model-Driven Extraction and Analysis of Network Security Policies. *Lecture Notes in Computer Science*, **2013**, 52-68	0.9	4

73	Leveraging Ontologies upon a Holistic Privacy-Aware Access Control Model. *Lecture Notes in Computer Science*, **2014**, 209-226	0.9	4
72	Geocaching-inspired Resilient Path Planning for Drone Swarms **2019**,		3
71	Capacity Requirements in Networks of Quantum Repeaters and Terminals **2020**,		3
70	A Real-Time Query Log Protection Method for Web Search Engines. *IEEE Access*, **2020**, 8, 87393-87413	3.5	3
69	On the similarity of commercial EPC Gen2 pseudorandom number generators. *Transactions on Emerging Telecommunications Technologies*, **2014**, 25, 151-154	1.9	3
68	Privacy-enhanced filtering and collection middleware in EPCglobal networks **2013**,		3
67	Secure Localization in the Presence of Colluders in WSNs. *Sensors*, **2017**, 17,	3.8	3
66	Improved flooding of broadcast messages using extended multipoint relaying. *Journal of Network and Computer Applications*, **2011**, 34, 542-550	7.9	3
65	Data Privacy Management and Autonomous Spontaneous Security. *Lecture Notes in Computer Science*, **2010**,	0.9	3
64	Foundations and Practice of Security. *Lecture Notes in Computer Science*, **2012**,	0.9	3
63	Taxonomy and challenges in machine learning-based approaches to detect attacks in the internet of things **2020**,		3
62	Low Frequency Mobile Communications in Underwater Networks. *Lecture Notes in Computer Science*, **2018**, 239-251	0.9	3
61	Towards an Automated and Dynamic Risk Management Response System. *Lecture Notes in Computer Science*, **2016**, 37-53	0.9	3
60	Security Threat Mitigation Trends in Low-Cost RFID Systems. *Lecture Notes in Computer Science*, **2010**, 193-207	0.9	3
59	Switched-Based Resilient Control of Cyber-Physical Systems. *IEEE Access*, **2020**, 8, 212194-212208	3.5	3
58	Selection of Mitigation Actions Based on Financial and Operational Impact Assessments **2016**,		3
57	DECA: A Dynamic Energy Cost and Carbon Emission-Efficient Application Placement Method for Edge Clouds. *IEEE Access*, **2021**, 9, 70192-70213	3.5	3
56	Remarks on Peinado et al.'s Analysis of J3Gen. *Sensors*, **2015**, 15, 6217-20	3.8	2

55	Advanced Research in Data Privacy. *Studies in Computational Intelligence*, **2015**,	0.8	2
54	Risks and Security of Internet and Systems. *Lecture Notes in Computer Science*, **2018**,	0.9	2
53	Using an Event Data Taxonomy to Represent the Impact of Cyber Events as Geometrical Instances. *IEEE Access*, **2018**, 6, 8810-8828	3.5	2
52	A new analytic model for the cognitive radio jump-stay algorithm **2013**,		2
51	Transaction-based authentication and key agreement protocol for inter-domain VoIP. *Journal of Network and Computer Applications*, **2012**, 35, 1579-1597	7.9	2
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49	Mitigation of Flooding Disruption Attacks in Hierarchical OLSR Networks **2011**,		2
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47	An n-Sided Polygonal Model to Calculate the Impact of Cyber Security Events. *Lecture Notes in Computer Science*, **2017**, 87-102	0.9	2
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45	Handling Security Threats to the RFID System of EPC Networks **2010**, 45-64		2
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43	Considering Internal Vulnerabilities and the Attacker's Knowledge to Model the Impact of Cyber Events as Geometrical Prisms **2016**,		2
42	Research in Attacks, Intrusions, and Defenses. *Lecture Notes in Computer Science*, **2016**,	0.9	2
41	A Study on Mitigation Techniques for SCADA-Driven Cyber-Physical Systems (Position Paper). *Lecture Notes in Computer Science*, **2019**, 257-264	0.9	1
40	Foundations and Practice of Security. *Lecture Notes in Computer Science*, **2019**,	0.9	1
39	Attack Graph-Based Countermeasure Selection Using a Stateful Return on Investment Metric. *Lecture Notes in Computer Science*, **2018**, 293-302	0.9	1
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37	Channel selection using a multiple radio model. *Journal of Network and Computer Applications*, **2016**, 64, 113-123	7.9	1
36	QoS and security in Link State Routing protocols for MANETs **2013**,		1
35	Learning to Communicate Underwater **2017**,		1
34	On the Isofunctionality of Network Access Control Lists **2015**,		1
33	The Bidirectional Algorithm for Channel Selection Using a Two-Radio Model **2014**,		1
32	Spyware-Based Menaces Against Web Applications **2009**,		1
31	Distributed Exchange of Alerts for the Detection of Coordinated Attacks **2008**,		1
30	Protecting on-line casinos against fraudulent player drop-out **2005**,		1
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28	Mechanisms for attack protection on a prevention framework **2005**,		1
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23	A Survey on Detection Techniques to Prevent Cross-Site Scripting Attacks on Current Web Applications. *Lecture Notes in Computer Science*, **2008**, 287-298	0.9	1
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21	Security Issues in Link State Routing Protocols for MANETs. *Mathematics in Industry*, **2012**, 117-148	0.2	1
20	Quality Amplification of Error Prone Navigation for Swarms of Micro Aerial Vehicles **2019**,		1

19	Resilience Estimation of Cyber-Physical Systems via Quantitative Metrics. *IEEE Access*, **2021**, 9, 46462-46475	3.5	1
18	Lifelogging Protection Scheme for Internet-Based Personal Assistants. *Lecture Notes in Computer Science*, **2018**, 431-440	0.9	1
17	Towards a Security Event Data Taxonomy. *Lecture Notes in Computer Science*, **2018**, 29-45	0.9	1
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9	Security and Privacy in the TeSLA Architecture. *Lecture Notes on Data Engineering and Communications Technologies*, **2020**, 85-108	0.4	0
8	Reputation trust mechanism under the organizational-based access control model. *Security and Communication Networks*, **2016**, 9, 5295-5310	1.9	
7	Anonymous certification for E-assessment opinion polls. *Journal of Ambient Intelligence and Humanized Computing*, **2019**, 1	3.7	
6	Geocaching-Inspired Navigation for Micro Aerial Vehicles with Fallible Place Recognition. *Lecture Notes in Computer Science*, **2020**, 55-70	0.9	
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3	Preventing the Cluster Formation Attack against the Hierarchical OLSR Protocol. *Lecture Notes in Computer Science*, **2012**, 118-131	0.9	
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1 Revisiting the Performance of the Modular Clock Algorithm for Distributed Blind Rendezvous in Cognitive Radio Networks. *Lecture Notes in Computer Science*, **2014**, 197-208 0.9