

Sokratis K Katsikas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138
papers

1,247
citations

16
h-index

29
g-index

158
ext. papers

1,609
ext. citations

2.6
avg, IF

4.9
L-index

#	Paper	IF	Citations
138	Electricity demand loads modeling using AutoRegressive Moving Average (ARMA) models. <i>Energy</i> , 2008 , 33, 1353-1360	7.9	177
137	Electricity demand load forecasting of the Hellenic power system using an ARMA model. <i>Electric Power Systems Research</i> , 2010 , 80, 256-264	3.5	100
136	Reducing false positives in intrusion detection systems. <i>Computers and Security</i> , 2010 , 29, 35-44	4.9	49
135	Effective identification of source code authors using byte-level information 2006 ,		47
134	A nifty collaborative intrusion detection and prevention architecture for Smart Grid ecosystems. <i>Computers and Security</i> , 2017 , 64, 92-109	4.9	42
133	Health care management and information systems security: awareness, training or education?. <i>International Journal of Medical Informatics</i> , 2000 , 60, 129-35	5.3	40
132	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1988 , 36, 1715-1734		35
131	Source Code Author Identification Based on N-gram Author Profiles 2006 , 508-515		26
130	A game-based intrusion detection mechanism to confront internal attackers. <i>Computers and Security</i> , 2010 , 29, 859-874	4.9	25
129	A Privacy-Preserving Healthcare Framework Using Hyperledger Fabric. <i>Sensors</i> , 2020 , 20,	3.8	25
128	Revisiting Legal and Regulatory Requirements for Secure E-Voting. <i>IFIP Advances in Information and Communication Technology</i> , 2002 , 469-480	0.5	25
127	Trust, Privacy and Security in E-Business: Requirements and Solutions. <i>Lecture Notes in Computer Science</i> , 2005 , 548-558	0.9	23
126	Genetically determined variable structure multiple model estimation. <i>IEEE Transactions on Signal Processing</i> , 2001 , 49, 2253-2261	4.8	21
125	Adaptive load forecasting of the Hellenic electric grid. <i>Journal of Zhejiang University: Science A</i> , 2008 , 9, 1724-1730	2.1	20
124	A Forensics-by-Design Management Framework for Medical Devices Based on Blockchain 2019 ,		19
123	Towards a secure automatic identification system (AIS). <i>Journal of Marine Science and Technology</i> , 2019 , 24, 410-423	1.7	19
122	Electronic Voting: Constitutional and Legal Requirements, and Their Technical Implications. <i>Advances in Information Security</i> , 2003 , 43-60	0.7	16

121	Shipping 4.0: Security Requirements for the Cyber-Enabled Ship. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 6617-6625	11.9	15
120	Using Blockchains to Strengthen the Security of Internet of Things. <i>Communications in Computer and Information Science</i> , 2018 , 90-100	0.3	15
119	Developing secure Web-based medical applications. <i>Informatics for Health and Social Care</i> , 1999 , 24, 75-90		15
118	Cybersecurity and Safety Co-Engineering of Cyberphysical Systems A Comprehensive Survey. <i>Future Internet</i> , 2020 , 12, 65	3.3	14
117	Evaluating certificate status information mechanisms 2000 ,		13
116	Towed array shape estimation using multimodel partitioning filters. <i>IEEE Journal of Oceanic Engineering</i> , 1998 , 23, 380-384	3.3	13
115	A genetic algorithm for active noise control actuator positioning. <i>Mechanical Systems and Signal Processing</i> , 1995 , 9, 697-705	7.8	13
114	On the parallel implementations of the linear Kalman and Lainiotis filters and their efficiency. <i>Signal Processing</i> , 1991 , 25, 289-305	4.4	13
113	Joint order and parameter estimation of multivariate autoregressive models using multi-model partitioning theory 2006 , 16, 782-795		12
112	Quality assured trusted third parties for deploying secure internet-based healthcare applications. <i>International Journal of Medical Informatics</i> , 2002 , 65, 79-96	5.3	12
111	. <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , 1990 , 38, 872-876		12
110	Implementing a Forms of Consent Smart Contract on an IoT-based Blockchain to promote user trust 2018 ,		12
109	A Secured and Trusted Demand Response system based on Blockchain technologies 2018 ,		12
108	Enhancing IDS performance through comprehensive alert post-processing. <i>Computers and Security</i> , 2013 , 37, 176-196	4.9	11
107	Intrusion Detection Using Evolutionary Neural Networks 2008 ,		11
106	A formal model for pricing information systems insurance contracts. <i>Computer Standards and Interfaces</i> , 2005 , 27, 521-532	3.5	11
105	A New Computationally Effective Algorithm for Solving the Discrete Riccati Equation. <i>Journal of Mathematical Analysis and Applications</i> , 1994 , 186, 868-895	1.1	11
104	Cyber-Attacks Against the Autonomous Ship. <i>Lecture Notes in Computer Science</i> , 2019 , 20-36	0.9	11

103	Security Awareness of the Digital Natives. <i>Information (Switzerland)</i> , 2017 , 8, 42	2.6	10
102	A probabilistic model for optimal insurance contracts against security risks and privacy violation in IT outsourcing environments. <i>International Journal of Information Security</i> , 2007 , 6, 197-211	2.8	10
101	Design of a neural network for recognition and classification of computer viruses. <i>Computers and Security</i> , 1995 , 14, 435-448	4.9	10
100	Optimal seismic deconvolution. <i>Signal Processing</i> , 1988 , 15, 375-404	4.4	9
99	A Systematic Literature Review on RAMS analysis for critical infrastructures protection. <i>International Journal of Critical Infrastructure Protection</i> , 2021 , 33, 100427	4.1	9
98	Cyber Security of the Autonomous Ship 2017 ,		8
97	SafeSec Tropos: Joint security and safety requirements elicitation. <i>Computer Standards and Interfaces</i> , 2020 , 70, 103429	3.5	8
96	Using trusted third parties for secure telemedical applications over the WWW: the EUROMED-ETS approach. <i>International Journal of Medical Informatics</i> , 1998 , 49, 59-68	5.3	8
95	Underwater tracking of a maneuvering target using time delay measurements. <i>Signal Processing</i> , 1995 , 41, 17-29	4.4	8
94	. <i>IEEE Transactions on Signal Processing</i> , 1994 , 42, 1820-1825	4.8	8
93	Privacy-Preserving Passive DNS. <i>Computers</i> , 2020 , 9, 64	1.9	8
92	Modeling of the grounding resistance variation using ARMA models. <i>Simulation Modelling Practice and Theory</i> , 2008 , 16, 560-570	3.9	7
91	Trusted third party services for deploying secure telemedical applications over the WWW. <i>Computers and Security</i> , 1999 , 18, 627-639	4.9	7
90	Secure AIS with Identity-Based Authentication and Encryption. <i>TransNav</i> , 2020 , 14, 287-298	1.6	7
89	Towards Reliable Integrity in Blacklisting: Facing Malicious IPs in GHOST Smart Contracts 2018 ,		7
88	Towards a Cyber-Physical Range 2019 ,		6
87	Bypassing Antivirus Detection with Encryption 2014 ,		6
86	Electronic voting systems: security implications of the administrative workflow		6

85	Towards a formal system-to-system authentication protocol. <i>Computer Communications</i> , 1996 , 19, 954-961	5.1	6
84	Managing Cyber Security Risks of the Cyber-Enabled Ship. <i>Journal of Marine Science and Engineering</i> , 2020 , 8, 768	2.4	6
83	Threat Analysis for Smart Homes. <i>Future Internet</i> , 2019 , 11, 207	3.3	5
82	Detecting intrusive activities from insiders in a wireless sensor network using game theory 2013 ,		5
81	Using a Fuzzy Inference System to Reduce False Positives in Intrusion Detection 2009 ,		5
80	Optimal seismic deconvolution: distributed algorithms. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998 , 36, 779-792	8.1	5
79			5
78	Specifying Privacy-Preserving Protocols in Typed MSR. <i>Computer Standards and Interfaces</i> , 2005 , 27, 501-512	3.3	5
77	Communication architecture for autonomous passenger ship. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , 1748006X2110025	0.8	5
76	A structured methodology for deploying log management in WANs. <i>Journal of Information Security and Applications</i> , 2017 , 34, 120-132	3.5	4
75	User Modelling Validation over the Security Awareness of Digital Natives. <i>Future Internet</i> , 2017 , 9, 32	3.3	4
74	Multimodel partitioning filters and genetic algorithms. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997 , 30, 2421-2427	1.3	4
73	Multi-technology distributed objects and their integration. <i>Computer Standards and Interfaces</i> , 2001 , 23, 157-168	3.5	4
72	Securing The Electronic Market: The KEYSTONE Public Key Infrastructure Architecture. <i>Computers and Security</i> , 2000 , 19, 731-746	4.9	4
71	Model for network behaviour under viral attack. <i>Computer Communications</i> , 1996 , 19, 124-132	5.1	4
70	New doubling algorithm for the discrete periodic Riccati Equation. <i>Applied Mathematics and Computation</i> , 1994 , 60, 265-283	2.7	4
69	Modelling Shipping 4.0: A Reference Architecture for the Cyber-Enabled Ship. <i>Lecture Notes in Computer Science</i> , 2020 , 202-217	0.9	4
68	SDN-Based Resilient Smart Grid: The SDN-microSENSE Architecture. <i>Digital</i> , 2021 , 1, 173-187		4

67	Compliance of the Facebook Data Use Policy with the Principles of ISO 29100:2011 2014 ,		3
66	Designing a seamless privacy policy for social networks 2015 ,		3
65	The status of broadband in Western Greece: a study on the supply and the demand of broadband services for e-government promotion. <i>International Journal of Electronic Governance</i> , 2008 , 1, 326	0.3	3
64	Specifying and implementing privacy-preserving cryptographic protocols. <i>International Journal of Information Security</i> , 2008 , 7, 395-420	2.8	3
63	Attack Path Analysis for Cyber Physical Systems. <i>Lecture Notes in Computer Science</i> , 2020 , 19-33	0.9	3
62	Identifying Critical Components in Large Scale Cyber Physical Systems 2020 ,		3
61	Modeling Privacy Insurance Contracts and Their Utilization in Risk Management for ICT Firms. <i>Lecture Notes in Computer Science</i> , 2008 , 207-222	0.9	3
60	Cyber Risk Propagation and Optimal Selection of Cybersecurity Controls for Complex Cyberphysical Systems. <i>Sensors</i> , 2021 , 21,	3.8	3
59	Identifying and Analyzing Dependencies in and among Complex Cyber Physical Systems. <i>Sensors</i> , 2021 , 21,	3.8	3
58	Digitalization in Greece: State of Play, Barriers, Challenges, Solutions. <i>Public Administration and Information Technology</i> , 2017 , 355-375	1	2
57	Threat Analysis in Dynamic Environments: The Case of the Smart Home 2019 ,		2
56	Attack detection capabilities of intrusion detection systems for Wireless Sensor Networks 2013 ,		2
55	A methodology for building a log management infrastructure 2014 ,		2
54	Playing Games with Internal Attackers Repeatedly 2009 ,		2
53	Angular glint effects generation for false naval target verisimilarity requirements. <i>Measurement Science and Technology</i> , 2009 , 20, 104016	2	2
52	Adaptive Estimation of FCG Using Nonlinear State-Space Models. <i>Stochastic Analysis and Applications</i> , 2005 , 23, 705-722	1.1	2
51	Adaptive on-line multiple source detection		2
50	A genetic algorithm for optimal positioning of actuators in active noise control: results from the ASANCA project. <i>Aircraft Engineering and Aerospace Technology</i> , 2000 , 72, 252-258	5	2

49	Data security in medical information systems: technical aspects of a proposed legislation. <i>Medical Informatics = Medecine Et Informatique</i> , 1991 , 16, 371-83		2
48	A multiplayer game model to detect insiders in wireless sensor networks.. <i>PeerJ Computer Science</i> , 2022 , 8, e791	2.7	2
47	Towards Integration of Security and Safety Measures for Critical Infrastructures Based on Bayesian Networks and Graph Theory: A Systematic Literature Review. <i>Signals</i> , 2021 , 2, 771-802	1.2	2
46	Optimized Multi-Domain Secure Interoperation using Soft Constraints 2006 , 78-85		2
45	Towards a Secure Industrial Internet of Things. <i>Advanced Sciences and Technologies for Security Applications</i> , 2019 , 29-45	0.6	1
44	A simulation platform for evaluating DoS attacks in wireless sensor networks 2015 ,		1
43	Disaster Recovery Analysis and Management Method (DRAMM): An IT Management Tool 2012 ,		1
42	Lainiotis filters applications in seismic signal processing. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997 , 30, 2385-2395	1.3	1
41	Multi-model minimum variance control. <i>International Journal of Adaptive Control and Signal Processing</i> , 1998 , 12, 527-535	2.8	1
40	A Generic Intrusion Detection Game Model in IT Security. <i>Lecture Notes in Computer Science</i> , 2008 , 151-162		1
39	A New Algorithm for On-Line Multivariate ARMA Identification Using Multimodel Partitioning Theory 2008 ,		1
38	Application of the multi-model partitioning theory for simultaneous order and parameter estimation of multivariate ARMA models. <i>International Journal of Modelling, Identification and Control</i> , 2008 , 4, 242	0.6	1
37	Partial and Fuzzy Constraint Satisfaction to Support Coalition Formation. <i>Electronic Notes in Theoretical Computer Science</i> , 2007 , 179, 75-86	0.7	1
36	Interconnecting autonomous medical domains. Security, interoperability, and semantic-driven perspectives for electronic health records. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2007 , 26, 23-8		1
35	Specifying electronic voting protocols in typed MSR 2005 ,		1
34	A zero knowledge probabilistic login protocol. <i>Computers and Security</i> , 1992 , 11, 733-745	4.9	1
33	Towards a Cyber-Physical Range for the Integrated Navigation System (INS). <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 107	2.4	1
32	A Postgraduate Programme on Information and Communication Systems Security. <i>IFIP Advances in Information and Communication Technology</i> , 2000 , 49-58	0.5	1

31	Multivariate AR Model Order Estimation with Unknown Process Order. <i>Lecture Notes in Computer Science</i> , 2005 , 787-797	0.9	1
30	A Mobility and Energy-Aware Hierarchical Intrusion Detection System for Mobile Ad Hoc Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 138-149	0.9	1
29	The evolution of privacy-by-default in Social Networks 2014 ,		1
28	Security of the Electronic Medical Record 2013 , 401-416		1
27	Design of a dynamic log management infrastructure using risk and affiliation network analysis 2018 ,		1
26	Navigation Data Anomaly Analysis and Detection. <i>Information (Switzerland)</i> , 2022 , 13, 104	2.6	1
25	Unified IT&OT Modeling for Cybersecurity Analysis of Cyber-physical systems. <i>IEEE Open Journal of the Industrial Electronics Society</i> , 2022 , 1-1	3.6	1
24	Adaptive algorithms for heading-assisted radar tracking of manoeuvring targets: A comparative study. <i>International Journal of Adaptive Control and Signal Processing</i> , 1996 , 10, 571-587	2.8	0
23	A Risk Model for Privacy Insurance 2007 , 347-362		0
22	Can Blockchain Technology Enhance Security and Privacy in the Internet of Things?. <i>Learning and Analytics in Intelligent Systems</i> , 2021 , 199-228	0.3	0
21	Adaptive MV ARMA Identification Under the Presence of Noise. <i>Lecture Notes in Electrical Engineering</i> , 2009 , 165-177	0.2	0
20	New Frontiers: Assessing and Managing Security Risks. <i>Computer</i> , 2017 , 50, 48-51	1.6	
19	Compliance of the LinkedIn Privacy Policy with the Principles of the ISO 29100:2011 Standard. <i>Lecture Notes in Computer Science</i> , 2015 , 72-83	0.9	
18	Design of a Log Management Infrastructure Using Meta-Network Analysis. <i>Lecture Notes in Computer Science</i> , 2016 , 97-110	0.9	
17	Uncertainty in Intrusion Detection Signaling Games. <i>Lecture Notes in Computer Science</i> , 2014 , 184-203	0.9	
16	Enhancing SSADM with disaster recovery plan activities. <i>Information Management and Computer Security</i> , 2011 , 19, 248-261		
15	An Extension of Typed MSR for Specifying Esoteric Protocols and Their Dolev-Yao Intruder 2005 , 209-221		
14	Adaptive distributed partitioning filters: non-gaussian initial conditions. <i>Stochastic Analysis and Applications</i> , 1999 , 17, 405-419	1.1	

- 13 Attack Path Analysis and Cost-Efficient Selection of Cybersecurity Controls for Complex Cyberphysical Systems. *Lecture Notes in Computer Science*, **2022**, 74-90 0.9
- 12 How Much Should We Pay for Security? (Invited Paper) **2005**, 59-69
- 11 Assuring Critical Information Infrastructure **2005**, 43-55
- 10 A Framework for Exploiting Security Expertise in Application Development. *Lecture Notes in Computer Science*, **2006**, 62-70 0.9
- 9 White Paper on Industry Experiences in Critical Information Infrastructure Security: A Special Session at CRITIS 2019. *Lecture Notes in Computer Science*, **2020**, 197-207 0.9
- 8 A Collaborative Cybersecurity Education Program **2022**, 414-433
- 7 The Cascade Vulnerability Problem for Open Distributed Systems: A Review **1997**, 175-185
- 6 The Security of Information Systems in Greek Hospitals. *Lecture Notes in Computer Science*, **2013**, 112-123.9
- 5 A Test-Bed for Intrusion Detection Systems Results Post-processing. *Lecture Notes in Computer Science*, **2014**, 170-183 0.9
- 4 ARIBC: Online Reporting Based on Identity-Based Cryptography. *Future Internet*, **2021**, 13, 53 3.3
- 3 High level security policies for Healthcare Information Systems. *Studies in Health Technology and Informatics*, **2003**, 96, 98-104 0.5
- 2 High level security policies for health care establishments. *Studies in Health Technology and Informatics*, **2004**, 103, 407-15 0.5
- 1 Security Risk Assessment for CyberPhysical Systems **2021**, 1-4