

Sokratis K Katsikas

List of Publications by Year in descending order

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Version: 2024-02-01

146
papers

2,014
citations

331538

21
h-index

345118

36
g-index

158
all docs

158
docs citations

158
times ranked

1507
citing authors

#	ARTICLE	IF	CITATIONS
1	Electricity demand loads modeling using AutoRegressive Moving Average (ARMA) models. Energy, 2008, 33, 1353-1360.	4.5	251
2	Electricity demand load forecasting of the Hellenic power system using an ARMA model. Electric Power Systems Research, 2010, 80, 256-264.	2.1	147
3	A Privacy-Preserving Healthcare Framework Using Hyperledger Fabric. Sensors, 2020, 20, 6587.	2.1	88
4	Reducing false positives in intrusion detection systems. Computers and Security, 2010, 29, 35-44.	4.0	74
5	Effective identification of source code authors using byte-level information. , 2006, , .		71
6	A nifty collaborative intrusion detection and prevention architecture for Smart Grid ecosystems. Computers and Security, 2017, 64, 92-109.	4.0	56
7	Health care management and information systems security: awareness, training or education?. International Journal of Medical Informatics, 2000, 60, 129-135.	1.6	48
8	Adaptive deconvolution of seismic signals-performance, computational analysis, parallelism. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 1715-1734.	2.0	47
9	Towards a secure automatic identification system (AIS). Journal of Marine Science and Technology, 2019, 24, 410-423.	1.3	46
10	Revisiting Legal and Regulatory Requirements for Secure E-Voting. IFIP Advances in Information and Communication Technology, 2002, , 469-480.	0.5	37
11	A Forensics-by-Design Management Framework for Medical Devices Based on Blockchain. , 2019, , .		35
12	Source Code Author Identification Based on N-gram Author Profiles. , 2006, , 508-515.		35
13	A game-based intrusion detection mechanism to confront internal attackers. Computers and Security, 2010, 29, 859-874.	4.0	30
14	Enhancing IDS performance through comprehensive alert post-processing. Computers and Security, 2013, 37, 176-196.	4.0	29
15	Cybersecurity and Safety Co-Engineering of Cyberphysical Systemsâ€”A Comprehensive Survey. Future Internet, 2020, 12, 65.	2.4	29
16	Genetically determined variable structure multiple model estimation. IEEE Transactions on Signal Processing, 2001, 49, 2253-2261.	3.2	27
17	Adaptive load forecasting of the Hellenic electric grid. Journal of Zhejiang University: Science A, 2008, 9, 1724-1730.	1.3	27
18	Using Blockchains to Strengthen the Security of Internet of Things. Communications in Computer and Information Science, 2018, , 90-100.	0.4	25

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19	Shipping 4.0: Security Requirements for the Cyber-Enabled Ship. IEEE Transactions on Industrial Informatics, 2020, 16, 6617-6625.	7.2	25
20	Cyber-Attacks Against the Autonomous Ship. Lecture Notes in Computer Science, 2019, , 20-36.	1.0	23
21	Evaluating certificate status information mechanisms. , 2000, , .		22
22	A Secured and Trusted Demand Response system based on Blockchain technologies. , 2018, , .		22
23	Managing Cyber Security Risks of the Cyber-Enabled Ship. Journal of Marine Science and Engineering, 2020, 8, 768.	1.2	22
24	Developing secure Web-based medical applications. Informatics for Health and Social Care, 1999, 24, 75-90.	1.0	21
25	SDN-Based Resilient Smart Grid: The SDN-microSENSE Architecture. Digital, 2021, 1, 173-187.	1.1	21
26	Electronic Voting: Constitutional and Legal Requirements, and Their Technical Implications. Advances in Information Security, 2003, , 43-60.	0.9	21
27	A genetic algorithm for active noise control actuator positioning. Mechanical Systems and Signal Processing, 1995, 9, 697-705.	4.4	20
28	Security Awareness of the Digital Natives. Information (Switzerland), 2017, 8, 42.	1.7	19
29	AR model identification with unknown process order. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1990, 38, 872-876.	2.0	18
30	Intrusion Detection Using Evolutionary Neural Networks. , 2008, , .		17
31	Towards a Cyber-Physical Range. , 2019, , .		17
32	A Systematic Literature Review on RAMS analysis for critical infrastructures protection. International Journal of Critical Infrastructure Protection, 2021, 33, 100427.	2.9	17
33	On the parallel implementations of the linear Kalman and Lainiotis filters and their efficiency. Signal Processing, 1991, 25, 289-305.	2.1	16
34	A probabilistic model for optimal insurance contracts against security risks and privacy violation in IT outsourcing environments. International Journal of Information Security, 2007, 6, 197-211.	2.3	16
35	SafeSec Tropos: Joint security and safety requirements elicitation. Computer Standards and Interfaces, 2020, 70, 103429.	3.8	16
36	Cyber Risk Propagation and Optimal Selection of Cybersecurity Controls for Complex Cyberphysical Systems. Sensors, 2021, 21, 1691.	2.1	16

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37	Towed array shape estimation using multimodel partitioning filters. IEEE Journal of Oceanic Engineering, 1998, 23, 380-384.	2.1	15
38	A formal model for pricing information systems insurance contracts. Computer Standards and Interfaces, 2005, 27, 521-532.	3.8	15
39	Secure AIS with Identity-Based Authentication and Encryption. TransNav, 2020, 14, 287-298.	0.3	15
40	Quality assured trusted third parties for deploying secure internet-based healthcare applications. International Journal of Medical Informatics, 2002, 65, 79-96.	1.6	14
41	Implementing a Forms of Consent Smart Contract on an IoT-based Blockchain to promote user trust. , 2018, , .		14
42	Underwater tracking of a maneuvering target using time delay measurements. Signal Processing, 1995, 41, 17-29.	2.1	13
43	Joint order and parameter estimation of multivariate autoregressive models using multi-model partitioning theory. , 2006, 16, 782-795.		13
44	Privacy-Preserving Passive DNS. Computers, 2020, 9, 64.	2.1	13
45	A New Computationally Effective Algorithm for Solving the Discrete Riccati Equation. Journal of Mathematical Analysis and Applications, 1994, 186, 868-895.	0.5	12
46	Passive tracking of a maneuvering target: an adaptive approach. IEEE Transactions on Signal Processing, 1994, 42, 1820-1825.	3.2	12
47	Modeling of the grounding resistance variation using ARMA models. Simulation Modelling Practice and Theory, 2008, 16, 560-570.	2.2	12
48	Cyber Security of the Autonomous Ship. , 2017, , .		12
49	Optimal seismic deconvolution. Signal Processing, 1988, 15, 375-404.	2.1	11
50	Design of a neural network for recognition and classification of computer viruses. Computers and Security, 1995, 14, 435-448.	4.0	11
51	Trusted third party services for deploying secure telemedical applications over the WWW. Computers and Security, 1999, 18, 627-639.	4.0	11
52	Electronic voting systems: security implications of the administrative workflow. , 0, , .		11
53	Identifying and Analyzing Dependencies in and among Complex Cyber Physical Systems. Sensors, 2021, 21, 1685.	2.1	11
54	Threat Analysis for Smart Homes. Future Internet, 2019, 11, 207.	2.4	10

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55	Threat Analysis in Dynamic Environments: The Case of the Smart Home. , 2019, , .		10
56	Detecting intrusive activities from insiders in a wireless sensor network using game theory. , 2013, , .		9
57	Towards Reliable Integrity in Blacklisting: Facing Malicious IPs in GHOST Smart Contracts. , 2018, , .		9
58	Communication architecture for autonomous passenger ship. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2110025.	0.6	9
59	Identifying Critical Components in Large Scale Cyber Physical Systems. , 2020, , .		9
60	Attack Path Analysis for Cyber Physical Systems. Lecture Notes in Computer Science, 2020, , 19-33.	1.0	9
61	Navigation Data Anomaly Analysis and Detection. Information (Switzerland), 2022, 13, 104.	1.7	9
62	Using trusted third parties for secure telemedical applications over the WWW: The EUROMED-ETS approach. International Journal of Medical Informatics, 1998, 49, 59-68.	1.6	8
63	Bypassing Antivirus Detection with Encryption. , 2014, , .		8
64	Towards a formal system-to-system authentication protocol. Computer Communications, 1996, 19, 954-961.	3.1	7
65	Optimal seismic deconvolution: distributed algorithms. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 779-792.	2.7	7
66	Securing The Electronic Market: The KEYSTONE Public Key Infrastructure Architecture. Computers and Security, 2000, 19, 731-746.	4.0	7
67	Security, Privacy, and Trustworthiness of Sensor Networks and Internet of Things. Sensors, 2020, 20, 3846.	2.1	7
68	Towards Integration of Security and Safety Measures for Critical Infrastructures Based on Bayesian Networks and Graph Theory: A Systematic Literature Review. Signals, 2021, 2, 771-802.	1.2	7
69	Towards a Cyber-Physical Range for the Integrated Navigation System (INS). Journal of Marine Science and Engineering, 2022, 10, 107.	1.2	7
70	Multimodel partitioning filters and genetic algorithms. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 2421-2427.	0.6	6
71	Specifying Privacy-Preserving Protocols in Typed MSR. Computer Standards and Interfaces, 2005, 27, 501-512.	3.8	6
72	A scalable security architecture enabling coalition formation between autonomous domains. , 0, , .		6

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73	Using a Fuzzy Inference System to Reduce False Positives in Intrusion Detection. , 2009, , .		6
74	Designing a seamless privacy policy for social networks. , 2015, , .		6
75	User Modelling Validation over the Security Awareness of Digital Natives. Future Internet, 2017, 9, 32.	2.4	6
76	Modelling Shipping 4.0: A Reference Architecture for the Cyber-Enabled Ship. Lecture Notes in Computer Science, 2020, , 202-217.	1.0	6
77	Model for network behaviour under viral attack. Computer Communications, 1996, 19, 124-132.	3.1	5
78	Multi-technology distributed objects and their integration. Computer Standards and Interfaces, 2001, 23, 157-168.	3.8	5
79	Adaptive On-Line Multiple Source Detection. , 0, , .		5
80	A structured methodology for deploying log management in WANs. Journal of Information Security and Applications, 2017, 34, 120-132.	1.8	5
81	Digitalization in Greece: State of Play, Barriers, Challenges, Solutions. Public Administration and Information Technology, 2017, , 355-375.	0.6	5
82	New Frontiers: Assessing and Managing Security Risks. Computer, 2017, 50, 48-51.	1.2	5
83	Modeling Privacy Insurance Contracts and Their Utilization in Risk Management for ICT Firms. Lecture Notes in Computer Science, 2008, , 207-222.	1.0	5
84	New doubling algorithm for the discrete periodic Riccati Equation. Applied Mathematics and Computation, 1994, 60, 265-283.	1.4	4
85	A genetic algorithm for optimal positioning of actuators in active noise control: results from the ASANCA project. Aircraft Engineering and Aerospace Technology, 2000, 72, 252-258.	0.8	4
86	Specifying and implementing privacy-preserving cryptographic protocols. International Journal of Information Security, 2008, 7, 395-420.	2.3	4
87	Application of the multi-model partitioning theory for simultaneous order and parameter estimation of multivariate ARMA models. International Journal of Modelling, Identification and Control, 2008, 4, 242.	0.2	4
88	Angular glint effects generation for false naval target verisimilarity requirements. Measurement Science and Technology, 2009, 20, 104016.	1.4	4
89	A Mobility and Energy-Aware Hierarchical Intrusion Detection System for Mobile Ad Hoc Networks. Lecture Notes in Computer Science, 2011, , 138-149.	1.0	4
90	Data security in medical information systems: technical aspects of a proposed legislation. Medical Informatics = Medecine Et Informatique, 1991, 16, 371-383.	0.8	3

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91	Interconnecting Autonomous Medical Domains. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 23-28.	1.1	3
92	The status of broadband in Western Greece: a study on the supply and the demand of broadband services for e-government promotion. International Journal of Electronic Governance, 2008, 1, 326.	0.1	3
93	Playing Games with Internal Attackers Repeatedly. , 2009, , .		3
94	Attack detection capabilities of intrusion detection systems for Wireless Sensor Networks. , 2013, , .		3
95	Designing and developing a free Data Loss Prevention system. , 2014, , .		3
96	Compliance of the Facebook Data Use Policy with the Principles of ISO 29100:2011. , 2014, , .		3
97	Towards a Secure Industrial Internet of Things. Advanced Sciences and Technologies for Security Applications, 2019, , 29-45.	0.4	3
98	A Postgraduate Programme on Information and Communication Systems Security. IFIP Advances in Information and Communication Technology, 2000, , 49-58.	0.5	3
99	Can Blockchain Technology Enhance Security and Privacy in the Internet of Things?. Learning and Analytics in Intelligent Systems, 2021, , 199-228.	0.5	3
100	A multiplayer game model to detect insiders in wireless sensor networks. PeerJ Computer Science, 2022, 8, e791.	2.7	3
101	A zero knowledge probabilistic login protocol. Computers and Security, 1992, 11, 733-745.	4.0	2
102	Multi-model minimum variance control. International Journal of Adaptive Control and Signal Processing, 1998, 12, 527-535.	2.3	2
103	Building a reliable e-voting system: functional requirements and legal constraints. , 0, , .		2
104	Specifying electronic voting protocols in typed MSR. , 2005, , .		2
105	Adaptive Estimation of FCG Using Nonlinear State-Space Models. Stochastic Analysis and Applications, 2005, 23, 705-722.	0.9	2
106	Partial and Fuzzy Constraint Satisfaction to Support Coalition Formation. Electronic Notes in Theoretical Computer Science, 2007, 179, 75-86.	0.9	2
107	A Generic Intrusion Detection Game Model in IT Security. Lecture Notes in Computer Science, 2008, , 151-162.	1.0	2
108	A methodology for building a log management infrastructure. , 2014, , .		2

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109	Cyber-Physical Interdependencies in Power Plant Systems: A Review of Cyber Security Risks. , 2019, , .		2
110	Adaptive MV ARMA Identification Under the Presence of Noise. Lecture Notes in Electrical Engineering, 2009, , 165-177.	0.3	2
111	Optimized Multi-Domain Secure Interoperation using Soft Constraints. , 2006, , 78-85.		2
112	Unified IT&OT Modeling for Cybersecurity Analysis of Cyber-Physical Systems. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 318-328.	4.8	2
113	Secure Automatic Identification System (SecAIS): Proof-of-Concept Implementation. Journal of Marine Science and Engineering, 2022, 10, 805.	1.2	2
114	Adaptive algorithms for heading-assisted radar tracking of manoeuvring targets: A comparative study. International Journal of Adaptive Control and Signal Processing, 1996, 10, 571-587.	2.3	1
115	Lainiotis filters applications in seismic signal processing. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 2385-2395.	0.6	1
116	Enforcing security policies in large scale communication networks. , 0, , .		1
117	Special track on computer security. , 2005, , .		1
118	A New Algorithm for On-Line Multivariate ARMA Identification Using Multimodel Partitioning Theory. , 2008, , .		1
119	Simulator Implementation of an IF-ISAR System for Studies in Target Clint. , 2008, , .		1
120	Disaster Recovery Analysis and Management Method (DRAMM): An IT Management Tool. , 2012, , .		1
121	National Policy on Technology Supported Education in Greece. , 2014, , .		1
122	A simulation platform for evaluating DoS attacks in wireless sensor networks. , 2015, , .		1
123	Design of a dynamic log management infrastructure using risk and affiliation network analysis. , 2018, , .		1
124	AN EXTENSION OF TYPED MSR FOR SPECIFYING ESOTERIC PROTOCOLS AND THEIR DOLEV-YAO INTRUDER. , 2005, , 209-221.		1
125	Multivariate AR Model Order Estimation with Unknown Process Order. Lecture Notes in Computer Science, 2005, , 787-797.	1.0	1
126	A Risk Model for Privacy Insurance. , 2007, , 347-362.		1

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127	Security of the Electronic Medical Record. , 2013, , 401-416.		1
128	The evolution of privacy-by-default in Social Networks. , 2014, , .		1
129	Adaptive distributed partitioning filters: non-gaussian initial conditions. Stochastic Analysis and Applications, 1999, 17, 405-419.	0.9	0
130	Doctoral Programme on ICS Security at the University of the Aegean. , 2004, , 153-158.		0
131	An Extension of Typed MSR for Specifying Esoteric Protocols and Their Dolev-Yao Intruder. , 2005, , 209-221.		0
132	Applying Simulator-Defined Radar Countermeasure Systems Techniques to Computer Network Security Issues. , 2009, , .		0
133	Enhancing SSADM with disaster recovery plan activities. Information Management and Computer Security, 2011, 19, 248-261.	1.2	0
134	Uncertainty in Intrusion Detection Signaling Games. Lecture Notes in Computer Science, 2014, , 184-203.	1.0	0
135	Public Key Infrastructures, Services and Applications. Lecture Notes in Computer Science, 2014, , .	1.0	0
136	Compliance of the LinkedIn Privacy Policy with the Principles of the ISO 29100:2011 Standard. Lecture Notes in Computer Science, 2015, , 72-83.	1.0	0
137	Design of a Log Management Infrastructure Using Meta-Network Analysis. Lecture Notes in Computer Science, 2016, , 97-110.	1.0	0
138	Cyber Insurance and Security Investment Strategy. , 2021, , 1-5.		0
139	ARIBC: Online Reporting Based on Identity-Based Cryptography. Future Internet, 2021, 13, 53.	2.4	0
140	The Security of Information Systems in Greek Hospitals. Lecture Notes in Computer Science, 2013, , 112-123.	1.0	0
141	The Cascade Vulnerability Problem for Open Distributed Systems: A Review. , 1997, , 175-185.		0
142	White Paper on Industry Experiences in Critical Information Infrastructure Security: A Special Session at CRITIS 2019. Lecture Notes in Computer Science, 2020, , 197-207.	1.0	0
143	A Collaborative Cybersecurity Education Program. , 2022, , 414-433.		0
144	Assuring Critical Information Infrastructure. , 2005, , 43-55.		0

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145	High level security policies for Healthcare Information Systems. Studies in Health Technology and Informatics, 2003, 96, 98-104.	0.2	0
146	High level security policies for health care establishments. Studies in Health Technology and Informatics, 2004, 103, 407-15.	0.2	0