Sammy Chan

List of Publications by Year
in descending order

135 papers	3,513 citations	117453 34 h-index	155451 55 g-index
135 all docs	135 docs citations	135 times ranked	3327 citing authors

#	Article	IF	Citations
1	Secure Logistic Regression for Vertical Federated Learning. IEEE Internet Computing, 2022, 26, 61-68.	3.2	12
2	P1OVD: Patch-Based 1-Day Out-of-Bounds Vulnerabilities Detection Tool for Downstream Binaries. Electronics (Switzerland), 2022, 11, 260.	1.8	0
3	Firmware Vulnerabilities Homology Detection Based on Clonal Selection Algorithm for IoT Devices. IEEE Internet of Things Journal, 2022, 9, 16438-16445.	5.5	4
4	Design and Formal Analysis of a Lightweight MIPv6 Authentication Scheme. IEEE Internet of Things Journal, 2022, 9, 19238-19245.	5.5	3
5	Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. IEEE Internet of Things Journal, 2021, 8, 2483-2493.	5.5	81
6	IEEE Access Special Section Editorial: Emerging Trends, Issues, and Challenges in Underwater Acoustic Sensor Networks. IEEE Access, 2021, 9, 5862-5869.	2.6	1
7	Fraudulent News Headline Detection with Attention Mechanism. Computational Intelligence and Neuroscience, 2021, 2021, 1-7.	1.1	1
8	Intrusion detection methods based on integrated deep learning model. Computers and Security, 2021, 103, 102177.	4.0	58
9	Deep logarithmic neural network for Internet intrusion detection. Soft Computing, 2021, 25, 10129-10152.	2.1	10
10	STC: an intelligent trash can system based on both NB-IoT and edge computing for smart cities. Enterprise Information Systems, 2020, 14, 1422-1438.	3.3	6
11	Hybrid Intrusion Detection Mechanisms for Integrated Electronic Systems. , 2020, , .		2
12	Smart Contract Vulnerability Analysis and Security Audit. IEEE Network, 2020, 34, 276-282.	4.9	50
13	Vulnerability Analysis and Security Compliance Testing for Networked Surveillance Cameras. IEEE Network, 2020, 34, 315-321.	4.9	1
14	Group Password Strength Meter Based on Attention Mechanism. IEEE Network, 2020, 34, 196-202.	4.9	5
15	Deterministic Algorithms for Solving Boolean Polynomial Equations Based on Channel Coding Theory. IEEE Access, 2020, 8, 26764-26772.	2.6	1
16	Fake Review Detection Based on PU Learning and Behavior Density. IEEE Network, 2020, 34, 298-303.	4.9	12
17	Computation offloading time optimisation via Q‑learning in opportunistic edge computing. IET Communications, 2020, 14, 3898-3906.	1.5	7
18	Delay‑aware and cost‑efficient probabilistic transmission for opportunistic networks. IET Networks, 2020, 9, 372-377.	1.1	2

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19	How to Govern the Non-Cooperative Amateur Drones?. IEEE Network, 2019, 33, 184-189.	4.9	14
20	A Probabilistic Source Location Privacy Protection Scheme in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5917-5927.	3.9	33
21	Wireless Sensor Network Deployment Optimization Based on Two Flower Pollination Algorithms. IEEE Access, 2019, 7, 180590-180608.	2.6	34
22	Performance Modeling of Representative Load Sharing Schemes for Clustered Servers in Multiaccess Edge Computing. IEEE Internet of Things Journal, 2019, 6, 4880-4888.	5.5	28
23	A Maximum Cache Value Policy in Hybrid Memory-Based Edge Computing for Mobile Devices. IEEE Internet of Things Journal, 2019, 6, 4401-4410.	5.5	22
24	An Uneven Cluster-Based Mobile Charging Algorithm for Wireless Rechargeable Sensor Networks. IEEE Systems Journal, 2019, 13, 3747-3758.	2.9	70
25	Privacyâ€friendly and efficient secure communication framework for V2G networks. IET Communications, 2018, 12, 304-309.	1.5	16
26	A source location protection protocol based on dynamic routing in WSNs for the Social Internet of Things. Future Generation Computer Systems, 2018, 82, 689-697.	4.9	81
27	KCLP: A k-Means Cluster-Based Location Privacy Protection Scheme in WSNs for IoT. IEEE Wireless Communications, 2018, 25, 84-90.	6.6	55
28	Dynamic cloud resource management for efficient media applications in mobile computing environments. Personal and Ubiquitous Computing, 2018, 22, 561-573.	1.9	17
29	Security in the Internet of Things Supported by Mobile Edge Computing. IEEE Communications Magazine, 2018, 56, 56-61.	4.9	106
30	On blocking time in multiâ€class optical burst switching nodes. International Journal of Communication Systems, 2017, 30, e3128.	1.6	1
31	Software-Defined-Networking-Enabled Traffic Anomaly Detection and Mitigation. IEEE Internet of Things Journal, 2017, 4, 1890-1898.	5.5	50
32	A MAC Protocol for Full Duplex Cellular Networks. Procedia Computer Science, 2017, 109, 140-147.	1.2	1
33	Communication Security of Unmanned Aerial Vehicles. IEEE Wireless Communications, 2017, 24, 134-139.	6.6	139
34	Win-Win Security Approaches for Smart Grid Communications Networks. IEEE Network, 2017, 31, 122-128.	4.9	4
35	Emerging Trends, Issues, and Challenges in Big Data and Its Implementation toward Future Smart Cities. , 2017, 55, 16-17.		9
36	Recent advances in green industrial networking [Guest Editorial]. , 2016, 54, 14-15.		2

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37	Security and privacy in Internet of things: methods, architectures, and solutions. Security and Communication Networks, 2016, 9, 2641-2642.	1.0	7
38	An Accountable, Privacy-Preserving, and Efficient Authentication Framework for Wireless Access Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 1605-1614.	3.9	19
39	A Cross-Layer MAC Protocol for Underwater Acoustic Sensor Networks. IEEE Sensors Journal, 2016, 16, 4083-4091.	2.4	15
40	PD Source Diagnosis and Localization in Industrial High-Voltage Insulation System via Multimodal Joint Sparse Representation. IEEE Transactions on Industrial Electronics, 2016, , 1-1.	5.2	53
41	Throughput Improvement of 802.11 Networks Via Randomization of Transmission Power Levels. IEEE Transactions on Vehicular Technology, 2016, 65, 2703-2714.	3.9	19
42	Security-Enhanced Reprogramming with XORs Coding in Wireless Sensor Networks. Lecture Notes in Computer Science, 2016, , 421-435.	1.0	0
43	Handover authentication for mobile networks: security and efficiency aspects. IEEE Network, 2015, 29, 96-103.	4.9	52
44	Traffic matrix estimation: Advanced–Tomogravity method based on a precise gravity model. International Journal of Communication Systems, 2015, 28, 1709-1728.	1.6	6
45	Accountable and Privacy-Enhanced Access Control in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2015, 14, 389-398.	6.1	20
46	Security and privacy in emerging networks: Part 1 [Guest Editorial]. , 2015, 53, 18-19.		4
47	User privacy and data trustworthiness in mobile crowd sensing. IEEE Wireless Communications, 2015, 22, 28-34.	6.6	87
48	Mobile application security: malware threats and defenses. IEEE Wireless Communications, 2015, 22, 138-144.	6.6	72
49	Security and privacy in emerging networks: Part II [Guest Editorial]. , 2015, 53, 40-41.		4
50	Secure and Distributed Data Discovery and Dissemination in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1129-1139.	4.0	16
51	Performance Analysis of Contention Based Services with Bulk Transmission in IEEE 802.16 OFDMA Networks. , 2014, , .		0
52	Performance analysis and optimization of best-effort service in IEEE 802.16 networks. Wireless Communications and Mobile Computing, 2014, 14, 254-268.	0.8	3
53	A Novel and Lightweight System to Secure Wireless Medical Sensor Networks. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 316-326.	3.9	47
54	Lightweight and Confidential Data Discovery and Dissemination for Wireless Body Area Networks. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 440-448.	3.9	91

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55	Multi-Path Routing and Forwarding in Non-Cooperative Wireless Networks. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2638-2647.	4.0	17
56	Small data dissemination for wireless sensor networks: The security aspect. IEEE Wireless Communications, 2014, 21, 110-116.	6.6	8
57	An enhanced public key infrastructure to secure smart grid wireless communication networks. IEEE Network, 2014, 28, 10-16.	4.9	57
58	How Effective Are the Prevailing Attack-Defense Models for Cybersecurity Anyway?. IEEE Intelligent Systems, 2014, 29, 14-21.	4.0	15
59	A comparative simulation study of TCP/AQM systems for evaluating the potential of neuron-based AQM schemes. Journal of Network and Computer Applications, 2014, 41, 274-299.	5.8	28
60	An efficient reputation-based system for wireless ad hoc networks. International Journal of Autonomous and Adaptive Communications Systems, 2014, 7, 196.	0.2	0
61	A secure and efficient password‐authenticated group key exchange protocol for mobile ad hoc networks. International Journal of Communication Systems, 2013, 26, 495-504.	1.6	24
62	Strong roaming authentication technique for wireless and mobile networks. International Journal of Communication Systems, 2013, 26, 1028-1037.	1.6	17
63	Handauth: Efficient Handover Authentication with Conditional Privacy for Wireless Networks. IEEE Transactions on Computers, 2013, 62, 616-622.	2.4	36
64	Security and efficiency in roaming services for wireless networks: challenges, approaches, and prospects. , 2013, 51, 142-150.		27
65	Security Analysis and Improvement of a Secure and Distributed Reprogramming Protocol for Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2013, 60, 5348-5354.	5.2	65
66	Secure and Lightweight Network Admission and Transmission Protocol for Body Sensor Networks. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 664-674.	3.9	100
67	Secure Data Discovery and Dissemination based on Hash Tree for Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4638-4646.	6.1	35
68	Decentralized Power Control for Random Access with Successive Interference Cancellation. IEEE Journal on Selected Areas in Communications, 2013, 31, 2387-2396.	9.7	46
69	Secure and Efficient Handover Authentication Based on Bilinear Pairing Functions. IEEE Transactions on Wireless Communications, 2012, 11, 48-53.	6.1	175
70	Secure service provision in smart grid communications. , 2012, 50, 53-61.		72
71	SDRP: A Secure and Distributed Reprogramming Protocol for Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2012, 59, 4155-4163.	5.2	46
72	ReTrust: Attack-Resistant and Lightweight Trust Management for Medical Sensor Networks. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 623-632.	3.6	181

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73	Decentralized power control for random access with iterative multi-user detection. , 2012, , .		1
74	Analysis and Improvement of a Secure and Efficient Handover Authentication for Wireless Networks. IEEE Communications Letters, 2012, 16, 1270-1273.	2.5	49
75	A Distributed Trust Evaluation Model and Its Application Scenarios for Medical Sensor Networks. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1164-1175.	3.6	86
76	DiCode: DoS-Resistant and Distributed Code Dissemination in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2012, 11, 1946-1956.	6.1	37
77	Performance Modeling of Broadcast Polling in IEEE 802.16 Networks with Finite-Buffered Subscriber Stations. IEEE Transactions on Wireless Communications, 2012, 11, 4514-4523.	6.1	4
78	IAPI: An intelligent adaptive PI active queue management scheme. Computer Communications, 2012, 35, 2281-2293.	3.1	12
79	Secure and efficient dynamic program update in wireless sensor networks. Security and Communication Networks, 2012, 5, 823-830.	1.0	4
80	Performance Modeling of Broadcast Polling in IEEE 802.16 Networks with Finite-Buffered Subscriber Stations. IEEE Transactions on Wireless Communications, 2012, , 1-10.	6.1	0
81	Optimal throughput for 802.11 DCF with multiple packet reception. , 2011, , .		4
82	Performance modelling of broadcast polling protocol in unsaturated IEEE 802.16 networks. , 2011, , .		0
83	Distributed privacy-preserving access control in a single-owner multi-user sensor network. , 2011, , .		10
84	High-Throughput Routing with Superposition Coding and Successive Interference Cancellation. , 2011, , .		6
85	Distributed Access Control with Privacy Support in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3472-3481.	6.1	76
86	Privacy-Preserving Universal Authentication Protocol for Wireless Communications. IEEE Transactions on Wireless Communications, 2011, 10, 431-436.	6.1	94
87	Design and Validation of an Efficient Authentication Scheme with Anonymity for Roaming Service in Global Mobility Networks. Wireless Personal Communications, 2011, 61, 465-476.	1.8	55
88	A Simple and Robust Vertical Handoff Algorithm for Heterogeneous Wireless Mobile Networks. Wireless Personal Communications, 2011, 59, 361-373.	1.8	43
89	Lightweight and provably secure user authentication with anonymity for the global mobility network. International Journal of Communication Systems, 2011, 24, 347-362.	1.6	104
90	Performance effects of two-way FAST TCP. Computer Networks, 2011, 55, 2976-2984.	3.2	4

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91	FORBID: Cope with Byzantine Behaviors in Wireless Multi-Path Routing and Forwarding. , 2011, , .		0
92	Performance Analysis of Best-Effort Service in Saturated IEEE 802.16 Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 460-472.	3.9	35
93	A Secure and Lightweight User Authentication Scheme with Anonymity for the Global Mobility Network. , 2010, , .		3
94	A priority-based processor sharing model for TDM passive optical networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 863-874.	9.7	0
95	Bandwidth allocation in wireless ad hoc networks: Challenges and prospects. , 2010, 48, 80-85.		20
96	Error-aware and energy-efficient routing approach in MANETs. International Journal of Communication Systems, 2009, 22, 37-51.	1.6	7
97	Generalized Second Price Auction in Multi-Path Routing with Selfish Nodes. , 2009, , .		9
98	Auction in multi-path multi-hop routing. IEEE Communications Letters, 2009, 13, 154-156.	2.5	18
99	Dynamic Wavelength Allocation Schemes in WDM-PON. , 2008, , .		0
100	Cascading failure spreading on weighted heterogeneous networks. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P05013.	0.9	77
101	Performance Evaluation for Saturated 802.16 Networks with Binary Backoff Mechanism. , 2008, , .		0
102	Performance Analysis of Resource Selection Schemes for a Large Scale Video-on-Demand System. IEEE Transactions on Multimedia, 2008, 10, 153-159.	5.2	21
103	Delay Model for Saturated IEEE 802.16 Networks. , 2008, , .		0
104	Combination Load Balancing for Video-on-Demand Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 937-948.	5.6	10
105	Algorithms for WiMAX scheduling. , 2008, , .		3
106	Loss performance evaluation in heterogeneous hierarchical networks. , 2008, , .		2
107	Evolutionary Optimization of File Assignment for a Large-Scale Video-on-Demand System. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 836-850.	4.0	11
108	Performance of Hybrid ARQ Using Trellis-Coded Modulation Over Rayleigh Fading Channel. IEEE Transactions on Vehicular Technology, 2007, 56, 2784-2790.	3.9	3

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109	Improving Wireless TCP Throughput by a Novel TCM-Based Hybrid ARQ. IEEE Transactions on Wireless Communications, 2007, 6, 2476-2485.	6.1	6
110	An Error-aware and Energy Efficient Routing Protocol in MANETs. , 2007, , .		9
111	On the Handover Performance of a Tri-threshold Bandwidth Reservation CAC Scheme. ETRI Journal, 2007, 29, 113-115.	1.2	3
112	Instability effects of two-way traffic in a TCP/AQM system. Computer Communications, 2007, 30, 2172-2179.	3.1	10
113	Max-min Fair Rate Allocation in Multi-hop Wireless Ad Hoc Networks. , 2006, , .		8
114	Adaptive Deterministic Packet Marking. IEEE Communications Letters, 2006, 10, 790-792.	2.5	18
115	A data link control protocol for broadband wireless networks with adaptive coding rate. International Journal of Communication Systems, 2006, 19, 845-860.	1.6	0
116	Buffer sizing for nonhomogeneous TCP sources. IEEE Communications Letters, 2005, 9, 567-569.	2.5	21
117	A hybrid ARQ scheme based on CT-TCM codes. IEEE Communications Letters, 2005, 9, 664-666.	2.5	5
118	Optimal Video Placement Scheme for Batching VOD Services. IEEE Transactions on Broadcasting, 2004, 50, 16-25.	2.5	26
119	An Enhanced Handoff Control Scheme for Multimedia Traffic in Cellular Networks. IEEE Communications Letters, 2004, 8, 195-197.	2.5	10
120	PD-RED: to improve the performance of RED. IEEE Communications Letters, 2003, 7, 406-408.	2.5	104
121	Dynamic bandwidth sharing for handoff traffic in multimedia mobile cellular networks. Electronics Letters, 2003, 39, 801.	0.5	3
122	Is max-min fairness achievable in the presence of insubordinate users?. IEEE Communications Letters, 2002, 6, 120-122.	2.5	4
123	A congestion control framework for available bit rate service in ATM networks. International Journal of Communication Systems, 2002, 15, 341-357.	1.6	4
124	Fault tolerance in Clos-Knockout multicast ATM switch. International Journal of Communication Systems, 2002, 15, 783-798.	1.6	0
125	Optimal file placement in VOD system using genetic algorithm. IEEE Transactions on Industrial Electronics, 2001, 48, 891-897.	5.2	28
126	An efficient handoff management scheme for mobile wireless ATM networks. IEEE Transactions on Vehicular Technology, 2000, 49, 799-816.	3.9	2

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127	A refined model for performance analysis of output-buffered Banyan networks. Telecommunication Systems, 2000, 13, 393-411.	1.6	1
128	Performance evaluation of fair packet discarding in network with multiple bottlenecks. Electronics Letters, 2000, 36, 1747.	0.5	0
129	Adaptive type II hybrid ARQ scheme using zigzag code. Electronics Letters, 1999, 35, 2102.	0.5	11
130	Analytical model for output-buffered Banyan networks. Electronics Letters, 1999, 35, 372.	0.5	0
131	Design of wide-sense nonblocking multicast ATM switches. IEEE Communications Letters, 1998, 2, 146-148.	2.5	1
132	Fair packet discarding for controlling ABR traffic in ATM networks. IEEE Transactions on Communications, 1997, 45, 913-916.	4.9	14
133	A Fast Reactive Congestion Control Method for ATM Networks. Teletraffic Science and Engineering, 1994, 1, 1291-1300.	0.4	1
134	Fairness in ATM networks. Computer Networks, 1993, 26, 109-117.	1.0	12
135	Achieving fair and high packet-level throughput in ABR service. , 0, , .		2