

Sammy Chan

List of Publications by Year in descending order

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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	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
2	Secure and Efficient Handover Authentication Based on Bilinear Pairing Functions. IEEE Transactions on Wireless Communications, 2012, 11, 48-53.	6.1	175
3	Communication Security of Unmanned Aerial Vehicles. IEEE Wireless Communications, 2017, 24, 134-139.	6.6	139
4	Security in the Internet of Things Supported by Mobile Edge Computing. IEEE Communications Magazine, 2018, 56, 56-61.	4.9	106
5	PD-RED: to improve the performance of RED. IEEE Communications Letters, 2003, 7, 406-408.	2.5	104
6	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
7	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
8	Privacy-Preserving Universal Authentication Protocol for Wireless Communications. IEEE Transactions on Wireless Communications, 2011, 10, 431-436.	6.1	94
9	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
10	User privacy and data trustworthiness in mobile crowd sensing. IEEE Wireless Communications, 2015, 22, 28-34.	6.6	87
11	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
12	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
13	Offloading Time Optimization via Markov Decision Process in Mobile-Edge Computing. IEEE Internet of Things Journal, 2021, 8, 2483-2493.	5.5	81
14	Cascading failure spreading on weighted heterogeneous networks. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P05013.	0.9	77
15	Distributed Access Control with Privacy Support in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3472-3481.	6.1	76
16	Secure service provision in smart grid communications. , 2012, 50, 53-61.		72
17	Mobile application security: malware threats and defenses. IEEE Wireless Communications, 2015, 22, 138-144.	6.6	72
18	An Uneven Cluster-Based Mobile Charging Algorithm for Wireless Rechargeable Sensor Networks. IEEE Systems Journal, 2019, 13, 3747-3758.	2.9	70

#	ARTICLE	IF	CITATIONS
19	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
20	Intrusion detection methods based on integrated deep learning model. Computers and Security, 2021, 103, 102177.	4.0	58
21	An enhanced public key infrastructure to secure smart grid wireless communication networks. IEEE Network, 2014, 28, 10-16.	4.9	57
22	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
23	KCLP: A k-Means Cluster-Based Location Privacy Protection Scheme in WSNs for IoT. IEEE Wireless Communications, 2018, 25, 84-90.	6.6	55
24	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
25	Handover authentication for mobile networks: security and efficiency aspects. IEEE Network, 2015, 29, 96-103.	4.9	52
26	Software-Defined-Networking-Enabled Traffic Anomaly Detection and Mitigation. IEEE Internet of Things Journal, 2017, 4, 1890-1898.	5.5	50
27	Smart Contract Vulnerability Analysis and Security Audit. IEEE Network, 2020, 34, 276-282.	4.9	50
28	Analysis and Improvement of a Secure and Efficient Handover Authentication for Wireless Networks. IEEE Communications Letters, 2012, 16, 1270-1273.	2.5	49
29	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
30	SDRP: A Secure and Distributed Reprogramming Protocol for Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2012, 59, 4155-4163.	5.2	46
31	Decentralized Power Control for Random Access with Successive Interference Cancellation. IEEE Journal on Selected Areas in Communications, 2013, 31, 2387-2396.	9.7	46
32	A Simple and Robust Vertical Handoff Algorithm for Heterogeneous Wireless Mobile Networks. Wireless Personal Communications, 2011, 59, 361-373.	1.8	43
33	DiCode: DoS-Resistant and Distributed Code Dissemination in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2012, 11, 1946-1956.	6.1	37
34	Handauth: Efficient Handover Authentication with Conditional Privacy for Wireless Networks. IEEE Transactions on Computers, 2013, 62, 616-622.	2.4	36
35	Performance Analysis of Best-Effort Service in Saturated IEEE 802.16 Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 460-472.	3.9	35
36	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

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37	Wireless Sensor Network Deployment Optimization Based on Two Flower Pollination Algorithms. IEEE Access, 2019, 7, 180590-180608.	2.6	34
38	A Probabilistic Source Location Privacy Protection Scheme in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5917-5927.	3.9	33
39	Optimal file placement in VOD system using genetic algorithm. IEEE Transactions on Industrial Electronics, 2001, 48, 891-897.	5.2	28
40	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
41	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
42	Security and efficiency in roaming services for wireless networks: challenges, approaches, and prospects. , 2013, 51, 142-150.		27
43	Optimal Video Placement Scheme for Batching VOD Services. IEEE Transactions on Broadcasting, 2004, 50, 16-25.	2.5	26
44	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
45	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
46	Buffer sizing for nonhomogeneous TCP sources. IEEE Communications Letters, 2005, 9, 567-569.	2.5	21
47	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
48	Bandwidth allocation in wireless ad hoc networks: Challenges and prospects. , 2010, 48, 80-85.		20
49	Accountable and Privacy-Enhanced Access Control in Wireless Sensor Networks. IEEE Transactions on Wireless Communications, 2015, 14, 389-398.	6.1	20
50	An Accountable, Privacy-Preserving, and Efficient Authentication Framework for Wireless Access Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 1605-1614.	3.9	19
51	Throughput Improvement of 802.11 Networks Via Randomization of Transmission Power Levels. IEEE Transactions on Vehicular Technology, 2016, 65, 2703-2714.	3.9	19
52	Adaptive Deterministic Packet Marking. IEEE Communications Letters, 2006, 10, 790-792.	2.5	18
53	Auction in multi-path multi-hop routing. IEEE Communications Letters, 2009, 13, 154-156.	2.5	18
54	Strong roaming authentication technique for wireless and mobile networks. International Journal of Communication Systems, 2013, 26, 1028-1037.	1.6	17

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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	Dynamic cloud resource management for efficient media applications in mobile computing environments. Personal and Ubiquitous Computing, 2018, 22, 561-573.	1.9	17
57	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
58	Privacy-friendly and efficient secure communication framework for V2G networks. IET Communications, 2018, 12, 304-309.	1.5	16
59	How Effective Are the Prevailing Attack-Defense Models for Cybersecurity Anyway?. IEEE Intelligent Systems, 2014, 29, 14-21.	4.0	15
60	A Cross-Layer MAC Protocol for Underwater Acoustic Sensor Networks. IEEE Sensors Journal, 2016, 16, 4083-4091.	2.4	15
61	Fair packet discarding for controlling ABR traffic in ATM networks. IEEE Transactions on Communications, 1997, 45, 913-916.	4.9	14
62	How to Govern the Non-Cooperative Amateur Drones?. IEEE Network, 2019, 33, 184-189.	4.9	14
63	Fairness in ATM networks. Computer Networks, 1993, 26, 109-117.	1.0	12
64	IAP: An intelligent adaptive PI active queue management scheme. Computer Communications, 2012, 35, 2281-2293.	3.1	12
65	Fake Review Detection Based on PU Learning and Behavior Density. IEEE Network, 2020, 34, 298-303.	4.9	12
66	Secure Logistic Regression for Vertical Federated Learning. IEEE Internet Computing, 2022, 26, 61-68.	3.2	12
67	Adaptive type II hybrid ARQ scheme using zigzag code. Electronics Letters, 1999, 35, 2102.	0.5	11
68	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
69	An Enhanced Handoff Control Scheme for Multimedia Traffic in Cellular Networks. IEEE Communications Letters, 2004, 8, 195-197.	2.5	10
70	Instability effects of two-way traffic in a TCP/AQM system. Computer Communications, 2007, 30, 2172-2179.	3.1	10
71	Combination Load Balancing for Video-on-Demand Systems. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 937-948.	5.6	10
72	Distributed privacy-preserving access control in a single-owner multi-user sensor network. , 2011, , .		10

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73	Deep logarithmic neural network for Internet intrusion detection. <i>Soft Computing</i> , 2021, 25, 10129-10152.	2.1	10
74	An Error-aware and Energy Efficient Routing Protocol in MANETs. , 2007, , .		9
75	Generalized Second Price Auction in Multi-Path Routing with Selfish Nodes. , 2009, , .		9
76	Emerging Trends, Issues, and Challenges in Big Data and Its Implementation toward Future Smart Cities. , 2017, 55, 16-17.		9
77	Max-min Fair Rate Allocation in Multi-hop Wireless Ad Hoc Networks. , 2006, , .		8
78	Small data dissemination for wireless sensor networks: The security aspect. <i>IEEE Wireless Communications</i> , 2014, 21, 110-116.	6.6	8
79	Error-aware and energy-efficient routing approach in MANETs. <i>International Journal of Communication Systems</i> , 2009, 22, 37-51.	1.6	7
80	Security and privacy in Internet of things: methods, architectures, and solutions. <i>Security and Communication Networks</i> , 2016, 9, 2641-2642.	1.0	7
81	Computation offloading time optimisation via Qâ€learning in opportunistic edge computing. <i>IET Communications</i> , 2020, 14, 3898-3906.	1.5	7
82	Improving Wireless TCP Throughput by a Novel TCM-Based Hybrid ARQ. <i>IEEE Transactions on Wireless Communications</i> , 2007, 6, 2476-2485.	6.1	6
83	High-Throughput Routing with Superposition Coding and Successive Interference Cancellation. , 2011, , .		6
84	Traffic matrix estimation: Advancedâ€Tomography method based on a precise gravity model. <i>International Journal of Communication Systems</i> , 2015, 28, 1709-1728.	1.6	6
85	STC: an intelligent trash can system based on both NB-IoT and edge computing for smart cities. <i>Enterprise Information Systems</i> , 2020, 14, 1422-1438.	3.3	6
86	A hybrid ARQ scheme based on CT-TCM codes. <i>IEEE Communications Letters</i> , 2005, 9, 664-666.	2.5	5
87	Group Password Strength Meter Based on Attention Mechanism. <i>IEEE Network</i> , 2020, 34, 196-202.	4.9	5
88	Is max-min fairness achievable in the presence of insubordinate users?. <i>IEEE Communications Letters</i> , 2002, 6, 120-122.	2.5	4
89	A congestion control framework for available bit rate service in ATM networks. <i>International Journal of Communication Systems</i> , 2002, 15, 341-357.	1.6	4
90	Optimal throughput for 802.11 DCF with multiple packet reception. , 2011, , .		4

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91	Performance effects of two-way FAST TCP. <i>Computer Networks</i> , 2011, 55, 2976-2984.	3.2	4
92	Performance Modeling of Broadcast Polling in IEEE 802.16 Networks with Finite-Buffered Subscriber Stations. <i>IEEE Transactions on Wireless Communications</i> , 2012, 11, 4514-4523.	6.1	4
93	Secure and efficient dynamic program update in wireless sensor networks. <i>Security and Communication Networks</i> , 2012, 5, 823-830.	1.0	4
94	Security and privacy in emerging networks: Part I [Guest Editorial]. , 2015, 53, 18-19.		4
95	Security and privacy in emerging networks: Part II [Guest Editorial]. , 2015, 53, 40-41.		4
96	Win-Win Security Approaches for Smart Grid Communications Networks. <i>IEEE Network</i> , 2017, 31, 122-128.	4.9	4
97	Firmware Vulnerabilities Homology Detection Based on Clonal Selection Algorithm for IoT Devices. <i>IEEE Internet of Things Journal</i> , 2022, 9, 16438-16445.	5.5	4
98	Dynamic bandwidth sharing for handoff traffic in multimedia mobile cellular networks. <i>Electronics Letters</i> , 2003, 39, 801.	0.5	3
99	Performance of Hybrid ARQ Using Trellis-Coded Modulation Over Rayleigh Fading Channel. <i>IEEE Transactions on Vehicular Technology</i> , 2007, 56, 2784-2790.	3.9	3
100	On the Handover Performance of a Tri-threshold Bandwidth Reservation CAC Scheme. <i>ETRI Journal</i> , 2007, 29, 113-115.	1.2	3
101	Algorithms for WiMAX scheduling. , 2008, , .		3
102	A Secure and Lightweight User Authentication Scheme with Anonymity for the Global Mobility Network. , 2010, , .		3
103	Performance analysis and optimization of best-effort service in IEEE 802.16 networks. <i>Wireless Communications and Mobile Computing</i> , 2014, 14, 254-268.	0.8	3
104	Design and Formal Analysis of a Lightweight MIPv6 Authentication Scheme. <i>IEEE Internet of Things Journal</i> , 2022, 9, 19238-19245.	5.5	3
105	Achieving fair and high packet-level throughput in ABR service. , 0, , .		2
106	An efficient handoff management scheme for mobile wireless ATM networks. <i>IEEE Transactions on Vehicular Technology</i> , 2000, 49, 799-816.	3.9	2
107	Loss performance evaluation in heterogeneous hierarchical networks. , 2008, , .		2
108	Recent advances in green industrial networking [Guest Editorial]. , 2016, 54, 14-15.		2

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109	Hybrid Intrusion Detection Mechanisms for Integrated Electronic Systems. , 2020, , .		2
110	Delay-aware and cost-efficient probabilistic transmission for opportunistic networks. IET Networks, 2020, 9, 372-377.	1.1	2
111	Design of wide-sense nonblocking multicast ATM switches. IEEE Communications Letters, 1998, 2, 146-148.	2.5	1
112	A refined model for performance analysis of output-buffered Banyan networks. Telecommunication Systems, 2000, 13, 393-411.	1.6	1
113	Decentralized power control for random access with iterative multi-user detection. , 2012, , .		1
114	On blocking time in multi-class optical burst switching nodes. International Journal of Communication Systems, 2017, 30, e3128.	1.6	1
115	A MAC Protocol for Full Duplex Cellular Networks. Procedia Computer Science, 2017, 109, 140-147.	1.2	1
116	Vulnerability Analysis and Security Compliance Testing for Networked Surveillance Cameras. IEEE Network, 2020, 34, 315-321.	4.9	1
117	Deterministic Algorithms for Solving Boolean Polynomial Equations Based on Channel Coding Theory. IEEE Access, 2020, 8, 26764-26772.	2.6	1
118	IEEE Access Special Section Editorial: Emerging Trends, Issues, and Challenges in Underwater Acoustic Sensor Networks. IEEE Access, 2021, 9, 5862-5869.	2.6	1
119	Fraudulent News Headline Detection with Attention Mechanism. Computational Intelligence and Neuroscience, 2021, 2021, 1-7.	1.1	1
120	A Fast Reactive Congestion Control Method for ATM Networks. Teletraffic Science and Engineering, 1994, 1, 1291-1300.	0.4	1
121	Analytical model for output-buffered Banyan networks. Electronics Letters, 1999, 35, 372.	0.5	0
122	Performance evaluation of fair packet discarding in network with multiple bottlenecks. Electronics Letters, 2000, 36, 1747.	0.5	0
123	Fault tolerance in Clos-Knockout multicast ATM switch. International Journal of Communication Systems, 2002, 15, 783-798.	1.6	0
124	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
125	Dynamic Wavelength Allocation Schemes in WDM-PON. , 2008, , .		0
126	Performance Evaluation for Saturated 802.16 Networks with Binary Backoff Mechanism. , 2008, , .		0

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127	Delay Model for Saturated IEEE 802.16 Networks. , 2008, , .		0
128	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
129	Performance modelling of broadcast polling protocol in unsaturated IEEE 802.16 networks. , 2011, , .		0
130	FORBID: Cope with Byzantine Behaviors in Wireless Multi-Path Routing and Forwarding. , 2011, , .		0
131	Performance Analysis of Contention Based Services with Bulk Transmission in IEEE 802.16 OFDMA Networks. , 2014, , .		0
132	An efficient reputation-based system for wireless ad hoc networks. International Journal of Autonomous and Adaptive Communications Systems, 2014, 7, 196.	0.2	0
133	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
134	Security-Enhanced Reprogramming with XORs Coding in Wireless Sensor Networks. Lecture Notes in Computer Science, 2016, , 421-435.	1.0	0
135	PLOVD: Patch-Based 1-Day Out-of-Bounds Vulnerabilities Detection Tool for Downstream Binaries. Electronics (Switzerland), 2022, 11, 260.	1.8	0