

# Srikanth V Krishnamurthy

## List of Publications by Year in descending order

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Version: 2024-02-01

148  
papers

3,847  
citations

304743

22  
h-index

223800

46  
g-index

151  
all docs

151  
docs citations

151  
times ranked

2867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Denial of Service Attacks in Wireless Networks: The Case of Jammers. IEEE Communications Surveys and Tutorials, 2011, 13, 245-257.	39.4	486
2	On the effectiveness of secret key extraction from wireless signal strength in real environments. , 2009, , .		362
3	Secret Key Extraction from Wireless Signal Strength in Real Environments. IEEE Transactions on Mobile Computing, 2013, 12, 917-930.	5.8	229
4	A Cross-Layer Framework for Exploiting Virtual MISO Links in Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2007, 6, 579-594.	5.8	134
5	An Integrated Neighbor Discovery and MAC Protocol for Ad Hoc Networks Using Directional Antennas. IEEE Transactions on Wireless Communications, 2007, 6, 1114-1024.	9.2	126
6	Assessing link quality in IEEE 802.11 Wireless Networks: Which is the right metric?. , 2008, , .		113
7	TrueLink: A Practical Countermeasure to the Wormhole Attack in Wireless Networks. , 2006, , .		105
8	DART: Dynamic Address RouTing for Scalable Ad Hoc and Mesh Networks. IEEE/ACM Transactions on Networking, 2007, 15, 119-132.	3.8	100
9	lotSan. , 2018, , .		87
10	FluidNet: A Flexible Cloud-Based Radio Access Network for Small Cells. IEEE/ACM Transactions on Networking, 2016, 24, 915-928.	3.8	75
11	Lord of the Links: A Framework for Discovering Missing Links in the Internet Topology. IEEE/ACM Transactions on Networking, 2009, 17, 391-404.	3.8	70
12	On broadcasting with cooperative diversity in multi-hop wireless networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 484-496.	14.0	63
13	FluidNet. , 2013, , .		60
14	Deceiving Network Reconnaissance Using SDN-Based Virtual Topologies. IEEE Transactions on Network and Service Management, 2017, 14, 1098-1112.	4.9	56
15	Frugal following. , 2019, , .		56
16	Computing while charging. , 2012, , .		55
17	Lightweight Jammer Localization in Wireless Networks: System Design and Implementation. , 2009, , .		54
18	Improving TCP performance in ad hoc networks using signal strength based link management. Ad Hoc Networks, 2005, 3, 175-191.	5.5	52

#	ARTICLE	IF	CITATIONS
19	FERMI. , 2011, , .		52
20	A routing framework for providing robustness to node failures in mobile ad hoc networks. Ad Hoc Networks, 2004, 2, 87-107.	5.5	50
21	Measurement-Driven Guidelines for 802.11 WLAN Design. IEEE/ACM Transactions on Networking, 2010, 18, 722-735.	3.8	49
22	Cyber Deception. , 2016, , .		47
23	ARES. , 2009, , .		42
24	Application versus network layer multicasting in ad hoc networks: the ALMA routing protocol. Ad Hoc Networks, 2006, 4, 283-300.	5.5	40
25	On the Efficacy of Frequency Hopping in Coping with Jamming Attacks in 802.11 Networks. IEEE Transactions on Wireless Communications, 2010, 9, 3258-3271.	9.2	38
26	A Resource Management System for Interference Mitigation in Enterprise OFDMA Femtocells. IEEE/ACM Transactions on Networking, 2013, 21, 1447-1460.	3.8	38
27	MDC. , 2007, , .		35
28	Auto-configuration of 802.11n WLANs. , 2010, , .		35
29	Cluster-based congestion control for sensor networks. ACM Transactions on Sensor Networks, 2008, 4, 1-39.	3.6	34
30	Malicious co-residency on the cloud: Attacks and defense. , 2017, , .		33
31	A Measurement-Driven Anti-Jamming System for 802.11 Networks. IEEE/ACM Transactions on Networking, 2011, 19, 1208-1222.	3.8	32
32	Security and Science of Agility. , 2014, , .		30
33	Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2012, 11, 61-72.	5.8	29
34	ACORN: An Auto-Configuration Framework for 802.11n WLANs. IEEE/ACM Transactions on Networking, 2013, 21, 896-909.	3.8	29
35	Routing amid Colluding Attackers. , 2007, , .		28
36	Neighbor Discovery for Ultraviolet Ad Hoc Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 2002-2011.	14.0	27

#	ARTICLE	IF	CITATIONS
37	Your state is not mine. , 2017, , .		27
38	Directional neighbor discovery in 60 GHz indoor wireless networks. , 2009, , .		26
39	Directional neighbor discovery in 60 GHz indoor wireless networks. Performance Evaluation, 2011, 68, 897-915.	1.2	25
40	CWC: A Distributed Computing Infrastructure Using Smartphones. IEEE Transactions on Mobile Computing, 2015, 14, 1587-1600.	5.8	25
41	Inferring user relationship from hidden information in WLANs. , 2012, , .		24
42	A Framework for Joint Network Coding and Transmission Rate Control in Wireless Networks. , 2010, , .		22
43	FlexiWeb. , 2015, , .		22
44	A distributed resource management framework for interference mitigation in OFDMA femtocell networks. , 2012, , .		20
45	Trajectory control of mobile gateways for range extension in ad hoc networks. Computer Networks, 2002, 39, 809-825.	5.1	18
46	Handling asymmetry in power heterogeneous ad hoc networks. Computer Networks, 2007, 51, 2594-2615.	5.1	18
47	Self-Organizing Resource Management Framework in OFDMA Femtocells. IEEE Transactions on Mobile Computing, 2015, 14, 843-857.	5.8	18
48	Jammer localization in wireless networks: An experimentation-driven approach. Computer Communications, 2016, 86, 75-85.	5.1	18
49	Provision of guaranteed services in broadband LEO satellite networks. Computer Networks, 2002, 39, 61-77.	5.1	17
50	An Integrated Scheme for Fully-Directional Neighbor Discovery and Topology Management in Mobile Ad hoc Networks. , 2006, , .		17
51	Topology Control for Effective Interference Cancellation in Multi-User MIMO Networks. , 2010, , .		16
52	Resource Allocation for QoS Support in Wireless Mesh Networks. IEEE Transactions on Wireless Communications, 2013, 12, 2046-2054.	9.2	16
53	Design and Deployment Considerations for High Performance MIMO Testbeds. , 2008, , .		16
54	Understanding and Exploiting the Trade-Offs between Broadcasting and Multicasting in Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2007, 6, 264-279.	5.8	15

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55	Topology Control for Effective Interference Cancellation in Multiuser MIMO Networks. IEEE/ACM Transactions on Networking, 2013, 21, 455-468.	3.8	15
56	Catch Me if You Can: A Closer Look at Malicious Co-Residency on the Cloud. IEEE/ACM Transactions on Networking, 2019, 27, 560-576.	3.8	15
57	Predictive channel reservation for handoff prioritization in wireless cellular networks. Computer Networks, 2007, 51, 798-822.	5.1	14
58	FJI: Fighting Implicit Jamming in 802.11 WLANs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 21-40.	0.3	14
59	Coping with packet replay attacks in wireless networks. , 2011, , .		14
60	Exploiting Subcarrier Agility to Alleviate Active Jamming Attacks in Wireless Networks. IEEE Transactions on Mobile Computing, 2015, 14, 2488-2501.	5.8	14
61	Off-Path TCP Exploits of the Challenge ACK Global Rate Limit. IEEE/ACM Transactions on Networking, 2018, 26, 765-778.	3.8	14
62	Multiband Media Access Control in Impulse-Based UWB Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2007, 6, 351-366.	5.8	13
63	Detection of Selfish Manipulation of Carrier Sensing in 802.11 Networks. IEEE Transactions on Mobile Computing, 2012, 11, 1086-1101.	5.8	13
64	Twitsper: Tweeting privately. IEEE Security and Privacy, 2013, 11, 46-50.	1.2	12
65	Secret message sharing using online social media. , 2014, , .		12
66	A Blueprint for a Manageable and Affordable Wireless Testbed: Design, Pitfalls and Lessons Learned. , 2007, , .		11
67	VICO: A framework for configuring indoor visible light communication networks. , 2012, , .		11
68	Exploiting Diversity Gain in MIMO Equipped Ad hoc Networks. , 2006, , .		10
69	Managing Redundant Content in Bandwidth Constrained Wireless Networks. , 2014, , .		10
70	Detection of stealthy TCP-based DoS attacks. , 2015, , .		10
71	A novel adaptive protocol for lightweight efficient multicasting in ad hoc networks. Computer Networks, 2007, 51, 823-834.	5.1	9
72	UVOC-MAC: A MAC protocol for outdoor ultraviolet networks. , 2010, , .		9

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73	TIDE: A User-Centric Tool for Identifying Energy Hungry Applications on Smartphones. IEEE/ACM Transactions on Networking, 2017, 25, 1459-1474.	3.8	9
74	Energy Efficient Object Detection in Camera Sensor Networks. , 2017, , .		9
75	PAPP. , 2019, , .		9
76	Employing attack graphs for intrusion detection. , 2019, , .		9
77	Network Coding aware Rate Selection in multi-rate IEEE 802.11. , 2010, , .		8
78	Streaming Lower Quality Video over LTE: How Much Energy Can You Save?. , 2015, , .		8
79	Jaal. , 2017, , .		8
80	Managing Redundant Content in Bandwidth Constrained Wireless Networks. IEEE/ACM Transactions on Networking, 2017, 25, 988-1003.	3.8	8
81	You do (not) belong here. , 2020, , .		8
82	A case for adaptive sub-carrier level power allocation in OFDMA networks. , 2012, , .		7
83	Design and implementation of an integrated beamformer and uplink scheduler for OFDMA femtocells. , 2012, , .		7
84	One strategy does not serve all. , 2012, , .		7
85	Forensic analysis of packet losses in wireless networks. , 2012, , .		7
86	Network Coding Aware Queue Management in Multi-Rate Wireless Networks. , 2012, , .		7
87	UVOC-MAC: a MAC protocol for outdoor ultraviolet networks. Wireless Networks, 2013, 19, 1101-1120.	3.0	7
88	An integrated routing and rate adaptation framework for multi-rate multi-hop wireless networks. Wireless Networks, 2013, 19, 985-1003.	3.0	7
89	Trading off distortion for delay for video transmissions in wireless networks. , 2013, , .		7
90	ZapDroid. , 2015, , .		7

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91	Forensic Analysis of Packet Losses in Wireless Networks. IEEE/ACM Transactions on Networking, 2016, 24, 1975-1988.	3.8	7
92	Improving the Performance of TCP in the Presence of Interacting UDP Flows in Ad Hoc Networks. Lecture Notes in Computer Science, 2004, , 64-75.	1.3	7
93	Topology Control to Simultaneously Achieve Near-Optimal Node Degree and Low Path Stretch in Ad hoc Networks. , 2006, , .		6
94	A software framework for alleviating the effects of MAC-aware jamming attacks in wireless access networks. Wireless Networks, 2011, 17, 1543-1560.	3.0	6
95	Experimental characterization of interference in OFDMA femtocell networks. , 2012, , .		6
96	Realizing the Benefits of Wireless Network Coding in Multirate Settings. IEEE/ACM Transactions on Networking, 2013, 21, 950-962.	3.8	6
97	BOLT. , 2015, , .		6
98	TRINITY. , 2015, , .		6
99	Adaptive Sub-Carrier Level Power Allocation in OFDMA Networks. IEEE Transactions on Mobile Computing, 2015, 14, 28-41.	5.8	6
100	A new binary conflict resolution-based MAC protocol for impulse-based UWB ad hoc networks. Wireless Communications and Mobile Computing, 2006, 6, 933-949.	1.2	5
101	Joint resource allocation and admission control in wireless mesh networks. , 2009, , .		5
102	Quantifying the Overhead Due to Routing Probes in Multi-Rate WMNs. , 2010, , .		5
103	A Unified Metric for Routing and Rate Adaptation in Multi-Rate Wireless Mesh Networks. , 2011, , .		5
104	TIDE: A User-centric Tool for Identifying Energy Hungry Applications on Smartphones. , 2015, , .		5
105	A Distortion-Resistant Routing Framework for Video Traffic in Wireless Multihop Networks. IEEE/ACM Transactions on Networking, 2015, 23, 412-425.	3.8	5
106	Accurate and Timely Situation Awareness Retrieval from a Bandwidth Constrained Camera Network. , 2017, , .		5
107	Use of Smart Antennas in Ad Hoc Networks. , 2005, , 197-228.		4
108	Obtaining Provably Legitimate Internet Topologies. IEEE/ACM Transactions on Networking, 2012, 20, 271-284.	3.8	4

#	ARTICLE	IF	CITATIONS
109	Wireless network coding: Deciding when to flip the switch. , 2013, , .		4
110	Performance of visible light communications with dimming controls. , 2014, , .		4
111	Optimal Monitor Placement for Detection of Persistent Threats. , 2016, , .		4
112	iBUS: An Integrated Beamformer and Uplink Scheduler for OFDMA Small Cells. IEEE/ACM Transactions on Networking, 2016, 24, 901-914.	3.8	4
113	Characterization of Interference in OFDMA Small-Cell Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7937-7954.	6.3	4
114	<title>Optimal selection of nodes to perform data fusion in wireless sensor networks</title>. , 2001, 4396, 53.		3
115	Revisiting minimum cost reliable routing in wireless mesh networks. , 2007, , .		3
116	Impact of security properties on the quality of information in tactical military networks. , 2010, , .		3
117	A simple conceptual generator for the Internet graph. , 2010, , .		3
118	On the Uplink Capacity of Hybrid Cellular Ad Hoc Networks. , 2010, , .		3
119	Detecting Route Attraction Attacks in Wireless Networks. , 2011, , .		3
120	Enabling private conversations on Twitter. , 2012, , .		3
121	Distortion-Resilient Routing for Video Flows in Wireless Multi-hop Networks. , 2012, , .		3
122	Droid M+. , 2018, , .		3
123	Figment: Fine-grained Permission Management for Mobile Apps. , 2019, , .		3
124	Enhancing WiFi Throughput with PLC Extenders: A Measurement Study. Lecture Notes in Computer Science, 2017, , 257-269.	1.3	3
125	Boosting Home WiFi Throughputs via Adaptive DAS Clustering of PLC Extenders. , 2021, , .		3
126	On the MAC Layer Performance of Time-Hopped UWB Ad Hoc Networks. Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on, 2006, , .	0.0	2



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127	A novel neighbor discovery protocol for ultraviolet wireless networks. , 2011, , .		2
128	ZapDroid: Managing Infrequently Used Applications on Smartphones. IEEE Transactions on Mobile Computing, 2017, 16, 1475-1489.	5.8	2
129	NEST: Efficient Transport of Data Summaries over Named Data Networks. , 2018, , .		2
130	Themis. , 2021, , .		2
131	WOLT: Auto-Configuration of Integrated Enterprise PLC-WiFi Networks. , 2020, , .		2
132	MAC Layer Throughput Estimation in Impulse-Radio UWB Networks. IEEE Transactions on Mobile Computing, 2011, 10, 700-715.	5.8	1
133	Mitigating malicious interference via subcarrier-level radio agility in wireless networks. , 2013, , .		1
134	Resource thrifty secure mobile video transfers on open WiFi networks. , 2013, , .		1
135	Automated cross layer feature selection for effective intrusion detection in networked systems. , 2016, , .		1
136	Network coding efficiency in the presence of an intermittent backhaul network. , 2016, , .		1
137	On the Detection of Adaptive Side-Channel Attackers in Cloud Environments. , 2018, , .		1
138	A Framework for MIMO-based Packet Header Obfuscation. , 2018, , .		1
139	Edge-Assisted Detection and Summarization of Key Global Events from Distributed Crowd-Sensed Data. , 2019, , .		1
140	BigEye: Detection and Summarization of Key Global Events From Distributed Crowdsensed Data. IEEE Internet of Things Journal, 2022, 9, 9749-9765.	8.7	1
141	Message from the TPC chairs. , 2009, , .		0
142	Collaborative assessment of functional reliability in wireless networks. , 2012, , .		0
143	On the trade-offs between collecting packet level forensic evidence and data delivery performance in wireless networks. , 2013, , .		0
144	A diagnosis based intrusion detection approach. , 2015, , .		0

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145	Resource-aware fusion in multimodal sensing under network constraints. , 2016, , .		0
146	A Policy-Aware Enforcement Logic for Appropriately Invoking Network Coding. IEEE/ACM Transactions on Networking, 2016, 24, 2005-2018.	3.8	0
147	TRINITY: Tailoring Wireless Transmission Strategies to User Profiles in Enterprise Wireless Networks. IEEE/ACM Transactions on Networking, 2017, 25, 910-924.	3.8	0
148	Resource Efficient Privacy Preservation of Online Social Media Conversations. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 233-255.	0.3	0