Kshirasagar Naik

List of Publications by Year
in descending order

81 papers	1,423 citations	623734 14 h-index	395702 33 g-index
94 all docs	94 docs citations	94 times ranked	1390 citing authors

#	Article	IF	Citations
1	Data Capacity Improvement of Wireless Sensor Networks Using Non-Uniform Sensor Distribution. International Journal of Distributed Sensor Networks, 2006, 2, 121-145.	2.2	231
2	A Survey of Communication Protocols for Automatic Meter Reading Applications. IEEE Communications Surveys and Tutorials, 2011, 13, 168-182.	39.4	150
3	An Evolutionary SVM Model for DDOS Attack Detection in Software Defined Networks. IEEE Access, 2020, 8, 132502-132513.	4.2	132
4	Vehicular Networks for a Greener Environment: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 1372-1388.	39.4	75
5	SGBR: A Routing Protocol for Delay Tolerant Networks Using Social Grouping. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 2472-2481.	5.6	67
6	Energy Cost Models of Smartphones for Task Offloading to the Cloud. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 384-398.	4.6	59
7	DTSG: Dynamic time-stable geocast routing in vehicular ad hoc networks. , 2010, , .		41
8	Software Implementation Strategies for Power-Conscious Systems. Mobile Networks and Applications, 2001, 6, 291-305.	3.3	37
9	A Heuristic-Based Appliance Scheduling Scheme for Smart Homes. IEEE Transactions on Industrial Informatics, 2020, 16, 3242-3255.	11.3	36
10	Gradient Boundary Detection for Time Series Snapshot Construction in Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1462-1475.	5.6	33
11	Energy-as-a-Service (EaaS): On the Efficacy of Multimedia Cloud Computing to Save Smartphone Energy. , 2012, , .		33
12	ABSRP- A Service Discovery Approach for Vehicular Ad Hoc Networks. , 2008, , .		30
13	Virtual Surrounding Face Geocasting in Wireless Ad Hoc and Sensor Networks. IEEE/ACM Transactions on Networking, 2009, 17, 200-211.	3.8	30
14	A Framework for Evaluating the Performance of Cluster Algorithms for Hierarchical Networks. IEEE/ACM Transactions on Networking, 2007, 15, 1478-1489.	3.8	29
15	Split- and Aggregated-Transmission Control Protocol (SA-TCP) for Smart Power Grid. IEEE Transactions on Smart Grid, 2014, 5, 381-391.	9.0	29
16	Analysis of the Bluetooth device discovery protocol. Wireless Networks, 2010, 16, 421-436.	3.0	23
17	Impact of packet aggregation on energy consumption in smartphones. , 2011, , .		19
18	A Socially-Based Routing Protocol for Delay Tolerant Networks. , 2010, , .		17

#	Article	IF	Citations
19	A survey on dependability in Body Area Networks. , 2011, , .		17
20	Regional Super Cluster Based Optimum Channel Selection for CR-VANET. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 607-617.	7.9	17
21	Evaluating Electric Vehicles' Response Time to Regulation Signals in Smart Grids. IEEE Transactions on Industrial Informatics, 2018, 14, 1210-1219.	11.3	14
22	Activity Recognition in Residential Spaces with Internet of Things Devices and Thermal Imaging. Sensors, 2021, 21, 988.	3.8	14
23	ID-CEPPA: Identity-based Computationally Efficient Privacy-Preserving Authentication scheme for vehicle-to-vehicle communications. Journal of Systems Architecture, 2022, 123, 102387.	4.3	14
24	A Fair and Cooperative MAC Protocol for Heterogeneous Cognitive Radio Enabled Vehicular Ad-Hoc Networks. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1005-1018.	7.9	14
25	Vehicular networks for reduction of fuel consumption and CO_2 emission. , 2010, , .		13
26	Augmented YARA Rules Fused With Fuzzy Hashing in Ransomware Triaging. , 2019, , .		13
27	Embedded YARA rules: strengthening YARA rules utilising fuzzy hashing and fuzzy rules for malware analysis. Complex & Intelligent Systems, 2021, 7, 687-702.	6.5	13
28	DSSDN: Demand–supply based load balancing in Software–Defined Wide–Area Networks. International Journal of Network Management, 2018, 28, e2022.	2.2	11
29	A Joint Channel and Queue-Aware Scheduling for IEEE 802.16 Wireless Metropolitan Area Networks. , 2007, , .		10
30	Choosing the objective of optimal routing protocols in Delay Tolerant networks. , 2010, , .		10
31	Lockout-Tagout Ransomware: A Detection Method for Ransomware using Fuzzy Hashing and Clustering. , 2019, , .		10
32	An Efficient and Lightweight Deniably Authenticated Encryption Scheme for e-Mail Security. IEEE Access, 2019, 7, 184207-184220.	4.2	10
33	A Secure and Lightweight Protocol for Message Authentication in Wireless Sensor Networks. IEEE Systems Journal, 2021, 15, 3808-3819.	4.6	10
34	An evaluation of potential attack surfaces based on attack tree modelling and risk matrix applied to self-sovereign identity. Computers and Security, 2022, 120, 102808.	6.0	10
35	Multiple Mobile Routers Based Seamless Handover Scheme for Next Generation Heterogeneous Networks. , 2009, , .		8
36	Characterization and Detection of Tail Energy Bugs in Smartphones. IEEE Access, 2018, 6, 65098-65108.	4.2	8

#	Article	IF	Citations
37	Network Science Meets Circuit Theory: Resistance Distance, Kirchhoff Index, and Foster's Theorems With Generalizations and Unification. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 1090-1103.	5.4	8
38	Embedding Fuzzy Rules with YARA Rules for Performance Optimisation of Malware Analysis. , 2020, , .		8
39	Design and analysis of Split- and Aggregated-transport control protocol (SA-TCP) for Smart Metering Infrastructure. , 2012, , .		7
40	Optimization of fuel cost and emissions with vehicular networks at traffic intersections. , 2012, , .		7
41	Scheduling algorithm based on preemptive priority and hybrid data structure for cognitive radio technology with vehicular <i>ad hoc</i> network. IET Communications, 2019, 13, 3443-3451.	2.2	7
42	Extended Mobile IPv6 route optimization in nested mobile networks. , 2009, , .		6
43	A Localized Adaptive Strategy to Calculate the Backoff Interval in Contention-Based Vehicular Networks. IEEE Access, 2014, 2, 215-226.	4.2	6
44	SMoW: An Energy-Bandwidth Aware Web Browsing Technique for Smartphones. IEEE Access, 2014, 2, 1427-1441.	4.2	6
45	An eco-friendly routing protocol for Delay Tolerant Networks. , 2010, , .		5
46	A transport control protocol suite for smart metering infrastructure. , 2011, , .		5
47	Peer to peer content sharing on ad hoc networks of smartphones. , 2011, , .		5
48	Smartphone processor architecture, operations, and functions: current state-of-the-art and future outlook: energy performance trade-off. Journal of Supercomputing, 2021, 77, 1377-1454.	3.6	5
49	BBS: An Energy Efficient Localized Routing Scheme for Query Processing in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2006, 2, 23-54.	2.2	4
50	Adaptive backoff scheme for contention-based vehicular networks using fuzzy logic. , 2009, , .		4
51	A methodology for selecting experiments to measure energy costs in smartphones. , 2011, , .		4
52	A novel energy efficient and scalable hybrid-mac protocol for massive M2M networks. Cluster Computing, 2019, 22, 8703-8724.	5.0	4
53	A hierarchical identity-based security for delay tolerant networks using lattice-based cryptography. Peer-to-Peer Networking and Applications, 2020, 13, 348-367.	3.9	4
54	Per-user Throughput of Opportunistic Scheduling Scheme over Broadcast Fading Channels. , 2006, , .		3

#	Article	IF	Citations
55	Scheduling with base station diversity and fairness analysis for the downlink of CDMA cellular networks. Wireless Communications and Mobile Computing, 2007, 7, 569-579.	1.2	3
56	Estimating the energy cost of communication on portable wireless devices. , 2008, , .		3
57	A Mobile IPv6 Based Route Optimization Scheme for Mobile Networks. , 2009, , .		3
58	Perâ€user service model for opportunistic scheduling scheme over fading channels. Wireless Communications and Mobile Computing, 2010, 10, 87-100.	1.2	3
59	Channel Assignment Problem: A Fuzzy-Based Hybrid Approach. , 2010, , .		3
60	PUA-KE: Practical User Authentication with Key Establishment and its Application in Implantable Medical Devices. Journal of Systems Architecture, 2021, 120, 102307.	4.3	3
61	Call admission control with opportunistic scheduling scheme. Wireless Communications and Mobile Computing, 2010, 10, 372-382.	1.2	2
62	Enhancing the capability and energy efficiency of smartphones using WPAN. , 2011, , .		2
63	Client-centric data streaming on smartphones: An energy perspective. , 2013, , .		2
64	A Practical Task Offloading Decision Engine for Mobile Devices to Use Energy-as-a-Service (EaaS). , 2014, , .		2
65	Performance Study of Economical and Environmentally Friendly Geocast Routing in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 3783-3789.	6.3	2
66	An endâ€userâ€centric test generation methodology for performance evaluation of mobile networked applications. Software Testing Verification and Reliability, 2019, 29, e1713.	2.0	2
67	Detection of Anomalous Behavior in Wireless Devices Using Changepoint Analysis. , 2019, , .		2
68	Data Driven Modelling of Nuclear Power Plant Performance Data as Finite State Machines. Modelling, 2021, 2, 43-62.	1.4	2
69	Test Generation from FSM Models. , 0, , 265-320.		1
70	Toward Improving the Security of IoT and CPS Devices: An AI Approach. Digital Threats Research and Practice, 2023, 4, 1-30.	2.4	1
71	Control Flow Testing. , 0, , 88-111.		0
72	Data Flow Testing. , 0, , 112-134.		0

#	Article	IF	Citations
73	System Test Execution. , 0, , 408-449.		0
74	Acceptance Testing. , 0, , 450-470.		0
75	Functional Testing. , 0, , 222-264.		0
76	System Test Design. , 0, , 321-354.		0
77	Theory of Program Testing. , 0, , 31-50.		0
78	Special issue on protocols and applications for wireless and mobile peer-to-peer networks. Peer-to-Peer Networking and Applications, 2012, 5, 161-162.	3.9	0
79	A Study on User Interaction with Multi-Window Screen Support Framework for Multitasking Operations on Smartphones. , 2017, , .		0
80	Machine Learning Based Malware Detection in Wireless Devices Using Power Footprints. , 2019, , .		0
81	Domain Testing. , 0, , 135-157.		0