

# Amiya Nayak

## List of Publications by Year in descending order

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Version: 2024-02-01

121  
papers

2,646  
citations

201674

27  
h-index

206112

48  
g-index

124  
all docs

124  
docs citations

124  
times ranked

2672  
citing authors

#	ARTICLE	IF	CITATIONS
1	DL-IDS: a deep learning-based intrusion detection framework for securing IoT. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3803.	3.9	109
2	A Collaborative Caching-Transmission Method for Heterogeneous Video Services in Cache-Enabled Terahertz Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 3187-3200.	6.3	7
3	A Spam Transformer Model for SMS Spam Detection. IEEE Access, 2021, 9, 80253-80263.	4.2	38
4	RTEAM: Risk-Based Trust Evaluation Advanced Model for VANETs. IEEE Access, 2021, 9, 117772-117783.	4.2	10
5	AS-IDS: Anomaly and Signature Based IDS for the Internet of Things. Journal of Network and Systems Management, 2021, 29, 1.	4.9	64
6	Linking handover delay to load balancing in SDN-based heterogeneous networks. Computer Communications, 2021, 173, 170-182.	5.1	9
7	Efficient Authentication Protocol for Continuous Monitoring in Medical Sensor Networks. IEEE Open Journal of the Computer Society, 2021, 2, 130-138.	7.8	9
8	A Fog-based Reputation Evaluation Model for VANETs. , 2021, , .		3
9	Signature-Over-The-Air with Transfer Learning IDS for Intelligent Connected Vehicles (ICV). , 2021, , .		7
10	Federated Transfer Learning-Based IDS for the Internet of Medical Things (IoMT). , 2021, , .		16
11	A GNN-based Approach to Optimize Cache Hit Ratio in NDN Networks. , 2021, , .		7
12	Fog Integration with Optical Access Networks from an Energy Efficiency Perspective. , 2020, , .		2
13	Periodic Time Series Data Analysis by Deep Learning Methodology. IEEE Access, 2020, 8, 223078-223088.	4.2	1
14	An Intelligent Traffic Classification in SDN-IoT: A Machine Learning Approach. , 2020, , .		13
15	On securing IoT from Deep Learning perspective. , 2020, , .		8
16	Decentralized Bandwidth Allocation Framework for Energy-Efficiency and Fog Integration in PONs. , 2020, , .		0
17	Energy-Efficient Decentralized Framework for the Integration of Fog With Optical Access Networks. IEEE Transactions on Green Communications and Networking, 2020, 4, 927-938.	5.5	11
18	Towards Smart Trust Management of VANETs. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
19	A Novel Service Composition Approach for Offloading in Mobile Edge Computing. , 2020, , .		0
20	Improving the Response Time of SDN Controllers Based on Vertical Handover. , 2020, , .		1
21	Risk-based Trust Evaluation Model for VANETs. , 2020, , .		2
22	A Framework for QoS-based Routing in SDNs Using Deep Learning. , 2020, , .		0
23	Privacy Protection for E-Health Systems using Three-Factor User Authentication. , 2019, , .		1
24	Discovery method for distributed denial-of-service attack behavior in SDNs using a feature-pattern graph model. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 1195-1208.	2.6	11
25	Talk Half Listen To Half: Energy-Efficient Neighbor Discovery in Wireless Sensor Networks. , 2019, , .		3
26	Lightweight remote user authentication protocol for multi-server 5G networks using self-certified public key cryptography. Journal of Network and Computer Applications, 2019, 131, 66-74.	9.1	72
27	A Scheme to Design Community Detection Algorithms in Various Networks. Future Internet, 2019, 11, 41.	3.8	1
28	Fair and Social-Aware Message Forwarding Method in Opportunistic Social Networks. IEEE Communications Letters, 2019, 23, 720-723.	4.1	20
29	A Distributed Social-Aware Location Protection Method in Untrusted Vehicular Social Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 6114-6124.	6.3	19
30	Sleep Scheduling in Energy Harvesting Wireless Body Area Networks. IEEE Communications Magazine, 2019, 57, 95-101.	6.1	26
31	Authentication Protocol for Real-Time Wearable Medical Sensor Networks Using Biometrics and Continuous Monitoring. , 2019, , .		4
32	A Secure Blockchain-based Prescription Drug Supply in Health-care Systems. , 2019, , .		6
33	Energy-Efficient Sleep Scheduling in WBANs: From the Perspective of Minimum Dominating Set. IEEE Internet of Things Journal, 2019, 6, 6237-6246.	8.7	8
34	Keyless Semi-Quantum Point-to-point Communication Protocol with Low Resource Requirements. Scientific Reports, 2019, 9, 64.	3.3	2
35	An improved network security situation assessment approach in software defined networks. Peer-to-Peer Networking and Applications, 2019, 12, 295-309.	3.9	43
36	A Power-Efficient and Social-Aware Relay Selection Method for Multi-Hop D2D Communications. IEEE Communications Letters, 2018, 22, 1450-1453.	4.1	52

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37	Guest Editorial Special Section on Cloud Computing in Smart Grid Operation and Management. IEEE Transactions on Industrial Informatics, 2018, 14, 1207-1209.	11.3	0
38	Characterization and Detection of Tail Energy Bugs in Smartphones. IEEE Access, 2018, 6, 65098-65108.	4.2	8
39	Towards More Dynamic Energy-Efficient Bandwidth Allocation in EPONs. , 2018, , .		6
40	Modeling Handover Signaling Messages in OpenFlow-Based Mobile Software-Defined Networks. Journal of Computer Networks and Communications, 2018, 2018, 1-14.	1.6	4
41	Period Detection and Future Trend Prediction Using Machine Learning Techniques. , 2018, , .		0
42	Relay-Based iBCP Multicasting in Software Defined Networks. , 2018, , .		1
43	Activeâ€Source Seismic Tomography at the Brady Geothermal Field, Nevada, with Dense Nodal and Fiberâ€Optic Seismic Arrays. Seismological Research Letters, 2018, 89, 1629-1640.	1.9	36
44	On Improving Measurement Accuracy of DREAM Framework with Estimation Filters. , 2018, , .		0
45	Towards Green Fog-LR-PON Integration for Wireless Backhauls. , 2018, , .		0
46	Integrating Fog With Long-Reach PONs From a Dynamic Bandwidth Allocation Perspective. Journal of Lightwave Technology, 2018, 36, 5276-5284.	4.6	9
47	Applying transmission-coverage algorithms for secure geocasting in VANETs. International Journal of Computational Science and Engineering, 2018, 16, 17.	0.5	4
48	A Hierarchical Approach to Handle Inter-domain Mobility in SDN-based Networks using Mobile IP. , 2018, , .		2
49	Toward Parallel Edge Computing in Long-Reach PONs. Journal of Optical Communications and Networking, 2018, 10, 736.	4.8	13
50	ACP: An Efficient User Location Privacy Preserving Protocol for Opportunistic Mobile Social Networks. , 2018, , .		2
51	On the feasibility of service composition in a long-reach PON backhaul. , 2018, , .		3
52	Performance Evaluation of Community Detection Algorithms Based on Relationship Strength Measurement. , 2018, , .		1
53	Extended core-based community detection for directed networks. , 2017, , .		0
54	Anonymous and Lightweight Authentication for Secure Vehicular Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 10626-10636.	6.3	107

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55	Distributed Localization for Participatory Sensing Systems. <i>Procedia Computer Science</i> , 2017, 110, 78-85.	2.0	0
56	Effective role-assignment for participatory sensing systems. , 2017, , .		1
57	Location privacy-protection based on p-destination in mobile social networks: A game theory analysis. , 2017, , .		5
58	Learning automata based method for solving demand and supply problem with periodic behaviors. , 2017, , .		1
59	A Distributed Approach to Improving EPC Controller Performance. , 2017, , .		1
60	Economic No-Key Semi-Quantum Direct Communication Protocol. , 2017, , .		4
61	ACPM: An associative connectivity prediction model for AANET. , 2016, , .		2
62	A performance comparison of delay-tolerant network routing protocols. <i>IEEE Network</i> , 2016, 30, 46-53.	6.9	77
63	Using support vector machines to solve the comparison-based system-level fault diagnosis problem. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2016, 31, 176-200.	1.0	4
64	Fast and Scalable Counterfeits Estimation for Large-Scale RFID Systems. <i>IEEE/ACM Transactions on Networking</i> , 2016, 24, 1052-1064.	3.8	21
65	Continuous Answering Holistic Queries over Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016, 27, 394-404.	5.6	1
66	Improving flow completion time for short flows in datacenter networks. , 2015, , .		11
67	Cascading failures in smart grid: Joint effect of load propagation and interdependence. <i>IEEE Access</i> , 2015, 3, 2520-2530.	4.2	79
68	Efficient detection of faulty nodes with cuckoo search in t-diagnosable systems. <i>Applied Soft Computing Journal</i> , 2015, 29, 52-64.	7.2	7
69	Energy Cost Models of Smartphones for Task Offloading to the Cloud. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2015, 3, 384-398.	4.6	59
70	SDN based ECN adaptation scheme for improving data center long flow throughput. , 2015, , .		0
71	Multi-dimensional clustering and network monitoring system for aeronautical ad hoc networks. , 2015, , .		6
72	Efficient Authentication Protocol for Secure Vehicular Communications. , 2014, , .		9

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73	Byzantine-Resilient Secure Software-Defined Networks with Multiple Controllers in Cloud. IEEE Transactions on Cloud Computing, 2014, 2, 436-447.	4.4	87
74	A social network approach to trust management in VANETs. Peer-to-Peer Networking and Applications, 2014, 7, 229-242.	3.9	103
75	Editorial for Advances on Cognitive, Mobile and Ubiquitous Systems Special Issue. Mobile Networks and Applications, 2014, 19, 522-523.	3.3	0
76	Decentralized Access Control with Anonymous Authentication of Data Stored in Clouds. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 384-394.	5.6	184
77	Adaptive Context Dissemination in Heterogeneous Environments. IEEE Transactions on Mobile Computing, 2014, 13, 1173-1185.	5.8	2
78	Randomized carrier-based sensor relocation in wireless sensor and robot networks. Ad Hoc Networks, 2013, 11, 1951-1962.	5.5	29
79	A Decentralized Security Framework for Data Aggregation and Access Control in Smart Grids. IEEE Transactions on Smart Grid, 2013, 4, 196-205.	9.0	182
80	Balancing System Survivability and Cost of Smart Grid Via Modeling Cascading Failures. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 45-56.	4.6	73
81	Guest Editorial: Networking Challenges in Cloud Computing Systems and Applications. IEEE Journal on Selected Areas in Communications, 2013, 31, 2593-2595.	14.0	1
82	A harmony-seeking firefly swarm to the periodic replacement of damaged sensors by a team of mobile robots. , 2012, , .		15
83	Localized load-aware geographic routing in wireless ad hoc networks. , 2012, , .		9
84	Hybrid Mode Radio Link Control for Efficient Video Transmission over 4GLTE Network. , 2012, , .		2
85	Cooperative Neighbor Discovery Protocol for a Wireless Network Using Two Antenna Patterns. , 2012, , .		5
86	An online shadowed clustering algorithm applied to risk visualization in Territorial Security. , 2012, , .		3
87	Comparison-Based System-Level Fault Diagnosis: A Neural Network Approach. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1047-1059.	5.6	48
88	Techniques for Enhancing TCP Performance in Wireless Networks. , 2012, , .		11
89	A Distributed Constraint Satisfaction Problem Approach to Virtual Device Composition. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1997-2009.	5.6	8
90	CAHR: Content aware adaptive HARQ retransmission scheme for 4G/LTE network. , 2012, , .		6

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91	Controlled Straight Mobility and Energy-Aware Routing in Robotic Wireless Sensor Networks. , 2012, , .		13
92	Localized Geographic Routing to a Mobile Sink with Guaranteed Delivery in Sensor Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 1719-1729.	14.0	65
93	Policy management: leveraging the open virtualization format with contract and solution models. IEEE Network, 2012, 26, 22-27.	6.9	3
94	Cross layer design for efficient video streaming over LTE using scalable video coding. , 2012, , .		21
95	Channel quality-based AMC and smart scheduling scheme for SVC video transmission in LTE MBSFN networks. , 2012, , .		18
96	Biconnecting a network of mobile robots using virtual angular forces. Computer Communications, 2012, 35, 1038-1046.	5.1	22
97	An Efficient Video Adaptation Scheme for SVC Transport over LTE Networks. , 2011, , .		7
98	Carrier-Based Focused Coverage Formation in Wireless Sensor and Robot Networks. IEEE Transactions on Automatic Control, 2011, 56, 2406-2417.	5.7	28
99	LaConf: A localized address autoconfiguration scheme for wireless ad hoc networks. Tsinghua Science and Technology, 2011, 16, 529-538.	6.1	3
100	Intersection-Based Geographical Routing Protocol for VANETs: A Proposal and Analysis. IEEE Transactions on Vehicular Technology, 2011, 60, 4560-4574.	6.3	178
101	Localized delayâ€bounded and energyâ€efficient data aggregation in wireless sensor and actor networks. Wireless Communications and Mobile Computing, 2011, 11, 1603-1617.	1.2	12
102	Communication protocols for vehicular <i>ad hoc</i> networks. Wireless Communications and Mobile Computing, 2011, 11, 567-582.	1.2	38
103	AÂlocalized algorithm for bi-connectivity of connected mobileÂrobots. Telecommunication Systems, 2009, 40, 129-140.	2.5	31
104	Measuring linearity of planar point sets. Pattern Recognition, 2008, 41, 2503-2511.	8.1	34
105	Enhancing peer-to-peer systems through redundancy. IEEE Journal on Selected Areas in Communications, 2007, 25, 15-24.	14.0	28
106	Characterization, testing and reconfiguration of faults in mesh networks. The Integration VLSI Journal, 2007, 40, 525-535.	2.1	1
107	Localized routing with guaranteed delivery and a realistic physical layer in wireless sensor networks. Computer Communications, 2006, 29, 2550-2555.	5.1	11
108	Greedy localized routing for maximizing probability of delivery in wireless ad hoc networks with a realistic physical layer. Journal of Parallel and Distributed Computing, 2006, 66, 499-506.	4.1	14

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109	Progress and Location Based Localized Power Aware Routing for Ad Hoc and Sensor Wireless Networks. International Journal of Distributed Sensor Networks, 2006, 2, 147-159.	2.2	54
110	A PARALLEL PROBABILISTIC SYSTEM-LEVEL FAULT DIAGNOSIS APPROACH FOR LARGE MULTIPROCESSOR SYSTEMS. Parallel Processing Letters, 2006, 16, 63-79.	0.6	9
111	Physical layer impact on the design and performance of routing and broadcasting protocols in ad hoc and sensor networks. Computer Communications, 2005, 28, 1138-1151.	5.1	55
112	Hop count optimal position-based packet routing algorithms for ad hoc wireless networks with a realistic physical Layer. IEEE Journal on Selected Areas in Communications, 2005, 23, 1267-1275.	14.0	86
113	On characterization of catastrophic faults in two-dimensional VLSI arrays. The Integration VLSI Journal, 2004, 38, 267-281.	2.1	3
114	Characterization of catastrophic faults in two-dimensional reconfigurable systolic arrays with unidirectional links. Information Processing Letters, 2004, 92, 189-197.	0.6	3
115	Enumerating catastrophic fault patterns in VLSI arrays with both uni- and bidirectional links. The Integration VLSI Journal, 2001, 30, 157-168.	2.1	4
116	An improved testing scheme for catastrophic fault patterns. Information Processing Letters, 2000, 73, 199-206.	0.6	6
117	Characterization of Catastrophic Faults in Reconfigurable Systolic Arrays. VLSI Design, 1998, 7, 143-150.	0.5	0
118	On testing for catastrophic faults in reconfigurable arrays with arbitrary link redundancy. The Integration VLSI Journal, 1996, 20, 327-342.	2.1	8
119	A note on isomorphic chordal rings. Information Processing Letters, 1995, 55, 339-341.	0.6	7
120	Efficient construction of catastrophic patterns for VLSI reconfigurable arrays. The Integration VLSI Journal, 1993, 15, 133-150.	2.1	13
121	Separation of D2EHPA and M2EHPA. Hydrometallurgy, 1988, 19, 309-320.	4.3	27