Nauman Aslam

List of Publications by Year in descending order

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88 papers	2,440 citations	201674 27 h-index	233421 45 g-index
90 all docs	90 docs citations	90 times ranked	2551 citing authors

#	Article	IF	Citations
1	Multi-Agent Deep Reinforcement Learning-Based Trajectory Planning for Multi-UAV Assisted Mobile Edge Computing. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 73-84.	7.9	196
2	A Critical Analysis of Research Potential, Challenges, and Future Directives in Industrial Wireless Sensor Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 39-95.	39.4	181
3	Differential evolution algorithm as a tool for optimal feature subset selection in motor imagery EEG. Expert Systems With Applications, 2017, 90, 184-195.	7.6	119
4	Detection of online phishing email using dynamic evolving neural network based on reinforcement learning. Decision Support Systems, 2018, 107, 88-102.	5.9	115
5	Filtering techniques for channel selection in motor imagery EEG applications: a survey. Artificial Intelligence Review, 2020, 53, 1207-1232.	15.7	98
6	An efficient reinforcement learning-based Botnet detection approach. Journal of Network and Computer Applications, 2020, 150, 102479.	9.1	83
7	Towards video streaming in IoT Environments: Vehicular communication perspective. Computer Communications, 2018, 118, 93-119.	5.1	76
8	Deep Reinforcement Learning Based Dynamic Trajectory Control for UAV-Assisted Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2022, 21, 3536-3550.	5.8	76
9	An Energy Efficient Fuzzy Logic Cluster Formation Protocol in Wireless Sensor Networks. Procedia Computer Science, 2012, 10, 255-262.	2.0	75
10	A P2P Botnet detection scheme based on decision tree and adaptive multilayer neural networks. Neural Computing and Applications, 2018, 29, 991-1004.	5.6	74
11	A lightweight QRS detector for single lead ECG signals using a max-min difference algorithm. Computer Methods and Programs in Biomedicine, 2017, 144, 61-75.	4.7	69
12	An Intelligent Decision Support System for Leukaemia Diagnosis using Microscopic Blood Images. Scientific Reports, 2015, 5, 14938.	3.3	62
13	A Cost-Efficient Communication Framework for Battery-Switch-Based Electric Vehicle Charging. , 2017, 55, 162-169.		59
14	Diagnosis and monitoring of Alzheimer's patients using classical and deep learning techniques. Expert Systems With Applications, 2019, 136, 353-364.	7.6	57
15	From smart parking towards autonomous valet parking: A survey, challenges and future Works. Journal of Network and Computer Applications, 2021, 175, 102935.	9.1	53
16	Intelligent facial emotion recognition using a layered encoding cascade optimization model. Applied Soft Computing Journal, 2015, 34, 72-93.	7.2	52
17	New path planning model for mobile anchor-assisted localization in wireless sensor networks. Wireless Networks, 2018, 24, 2589-2607.	3.0	47
18	A new patient monitoring framework and Energy-aware Peering Routing Protocol (EPR) for Body Area Network communication. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 409-423.	4.9	45

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19	Toward Efficient, Scalable, and Coordinated On-the-Move EV Charging Management. IEEE Wireless Communications, 2017, 24, 66-73.	9.0	43
20	Swarm Intelligence Optimization Techniques for Obstacle-Avoidance Mobility-Assisted Localization in Wireless Sensor Networks. IEEE Access, 2018, 6, 22368-22385.	4.2	43
21	A novel encounter-based metric for mobile ad-hoc networks routing. Ad Hoc Networks, 2014, 14, 2-14.	5.5	42
22	Dynamic Fuzzy-Logic Based Path Planning for Mobility-Assisted Localization in Wireless Sensor Networks. Sensors, 2017, 17, 1904.	3.8	42
23	Towards green computing in wireless sensor networks: Controlled mobilityâ€“aided balanced tree approach. International Journal of Communication Systems, 2018, 31, e3463.	2.5	40
24	A Trajectory-Driven Opportunistic Routing Protocol for VCPS. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2628-2642.	4.7	38
25	Development of an Ultrasonic Airflow Measurement Device for Ducted Air. Sensors, 2015, 15, 10705-10722.	3.8	37
26	Cross-Layer Energy Optimization for IoT Environments: Technical Advances and Opportunities. Energies, 2017, 10, 2073.	3.1	37
27	Fuzzy-Based Channel Selection for Location Oriented Services in Multichannel VCPS Environments. IEEE Internet of Things Journal, 2018, 5, 4642-4651.	8.7	32
28	RL-Based User Association and Resource Allocation for Multi-UAV enabled MEC. , 2019, , .		32
29	An Ensemble of Condition Based Classifiers for Device Independent Detailed Human Activity Recognition Using Smartphones â€. Information (Switzerland), 2018, 9, 94.	2.9	30
30	Detection of phishing emails using data mining algorithms. , 2015, , .		28
31	Establishing effective communications in disaster affected areas and artificial intelligence based detection using social media platform. Future Generation Computer Systems, 2020, 112, 1057-1069.	7.5	27
32	Designing Transmission Strategies for Enhancing Communications in Medical IoT Using Markov Decision Process. Sensors, 2018, 18, 4450.	3.8	24
33	Optimizing Power Allocation in LoRaWAN IoT Applications. IEEE Internet of Things Journal, 2022, 9, 3429-3442.	8.7	23
34	Toward Distributed Battery Switch Based Electro-Mobility Using Publish/Subscribe System. IEEE Transactions on Vehicular Technology, 2018, 67, 10204-10217.	6.3	21
35	Optimal Placement and Capacity of Electric Vehicle Charging Stations in Urban Areas: Survey and Open Challenges. , 2019, , .		21
36	Void Avoidance Opportunistic Routing Protocol for Underwater Wireless Sensor Networks. Sensors, 2021, 21, 1942.	3.8	19

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37	A novel MAC proposal for critical and emergency communications in Industrial Wireless Sensor Networks. Computers and Electrical Engineering, 2018, 72, 976-989.	4.8	18
38	AVPark: Reservation and Cost Optimization-Based Cyber-Physical System for Long-Range Autonomous Valet Parking (L-AVP). IEEE Access, 2019, 7, 114141-114153.	4.2	14
39	Security Hardening of Botnet Detectors Using Generative Adversarial Networks. IEEE Access, 2021, 9, 78276-78292.	4.2	14
40	Automatic Musculoskeletal and Neurological Disorder Diagnosis With Relative Joint Displacement From Human Gait. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2387-2396.	4.9	13
41	Interference-Aware Multipath Video Streaming in Vehicular Environments. IEEE Access, 2018, 6, 47610-47626.	4.2	13
42	Towards autonomy: Cost-effective scheduling for long-range autonomous valet parking (LAVP). , 2018, , .		12
43	An Energy Efficient Strategy for Assignment of Electric Vehicles to Charging Stations in Urban Environments. , 2020, , .		12
44	Novel Algorithms for Reliability Evaluation of Remotely Deployed Wireless Sensor Networks. Wireless Personal Communications, 2018, 98, 1331-1360.	2.7	11
45	Reinforcement learning based effective communication strategies for energy harvested WBAN. Ad Hoc Networks, 2022, 132, 102880.	5.5	11
46	Improved abnormality detection from raw ECG signals using feature enhancement. , 2016, , .		10
47	SN-SEC: a secure wireless sensor platform with hardware cryptographic primitives. Personal and Ubiquitous Computing, 2013, 17, 1051-1059.	2.8	9
48	Three-dimensional path planning model for mobile anchor-assisted localization in Wireless Sensor Networks. , 2017, , .		9
49	Security and Privacy Issues in Wireless Sensor and Body Area Networks. , 2020, , 173-200.		9
50	Selfâ€adaptive proactive routing scheme for mobile adâ€hoc networks. IET Networks, 2015, 4, 128-136.	1.8	8
51	Optimized Pricing & Scheduling Model for Long Range Autonomous Valet Parking. , 2018, , .		8
52	Sparse metric-based mesh saliency. Neurocomputing, 2020, 400, 11-23.	5.9	8
53	Designing GA based effective transmission strategies for intra-WBAN communication. Biomedical Signal Processing and Control, 2021, 70, 102944.	5.7	8
54	A control channel based MAC protocol for time critical and emergency communications in Industrial Wireless Sensor Networks. , 2017, , .		8

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55	C-Sec: Energy efficient link layer encryption protocol for Wireless Sensor Networks. , 2012, , .		7
56	Applying DTN routing for reservation-driven EV Charging management in smart cities. , 2017, , .		7
57	MSAR: A metric self-adaptive routing model for Mobile Ad Hoc Networks. Journal of Network and Computer Applications, 2016, 68, 114-125.	9.1	6
58	Dynamic Priority Based Reliable Real-Time Communications for Infrastructure-Less Networks. IEEE Access, 2018, 6, 67338-67359.	4.2	6
59	Non-Cooperative Power Control Game in D2D Underlying Networks with Variant System Conditions. Electronics (Switzerland), 2019, 8, 1113.	3.1	6
60	Private and Utility Enhanced Recommendations With Local Differential Privacy and Gaussian Mixture Model. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 4151-4163.	5.7	6
61	Physical layer network coding with two-way relay free space optical communication link. , 2015, , .		5
62	Two Phased Routing Protocol Incorporating Distributed Genetic Algorithm and Gradient Based Heuristic in Clustered WSN. Wireless Personal Communications, 2017, 97, 5401-5425.	2.7	5
63	Unifying Person and Vehicle Re-Identification. IEEE Access, 2020, 8, 115673-115684.	4.2	5
64	A Unified Deep Metric Representation for Mesh Saliency Detection and Non-Rigid Shape Matching. IEEE Transactions on Multimedia, 2020, 22, 2278-2292.	7.2	5
65	Mitigating Malicious Adversaries Evasion Attacks in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2023, 19, 960-968.	11.3	5
66	Bayesian model for mobility prediction to support routing in Mobile Ad-Hoc Networks. , 2013, , .		4
67	A Novel Learning-Based Spectrum Sensing Technique for Cognitive Radio Networks. , 2013, , .		4
68	A new Mobility, Energy and Congestion Aware Routing scheme for MANETs. , 2014, , .		4
69	A longitudinal approach to measuring the impact of mobility on low-latency anonymity networks. , 2015, , .		4
70	BER Performance Investigation of MIMO Underwater Acoustic Communications. , 2018, , .		4
71	Local Differentially Private Matrix Factorization For Recommendations. , 2019, , .		4
72	Facial reshaping operator for controllable face beautification. Expert Systems With Applications, 2021, 167, 114067.	7.6	4

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73	An Investigation on Fragility of Machine Learning Classifiers in Android Malware Detection. , 2022, , .		4
74	Data collection using rendezvous points and mobile actor in wireless sensor networks. , 2012, , .		3
75	A dual-mode energy efficient encryption protocol for wireless sensor networks. Ad Hoc Networks, 2013, 11, 2588-2604.	5.5	3
76	The novel use of Bridge Relays to provide persistent Tor connections for mobile devices. , 2013, , .		3
77	CCESK: A Chinese Character Educational System Based on Kinect. IEEE Transactions on Learning Technologies, 2018, 11, 342-347.	3.2	3
78	Throughput and Range Performance Investigation for IEEE 802.11a, 802.11n and 802.11ac Technologies in an On-Campus Heterogeneous Network Environment. , 2018, , .		3
79	Finding optimal transmission strategy for intraâ€WBAN communications. Electronics Letters, 2020, 56, 1283-1286.	1.0	3
80	Energy efficient broadcasting in WSNs with cocasting and power control. , 2012, , .		2
81	Cocasting and power control for energy efficient information dissemination in WSNs. , 2013, , .		2
82	Posture detection using WBAN and its application in remote healthcare monitoring. , 2016, , .		2
83	Adaptive Scaling Active Constellation Extension Scheme with Fast Convergence for PAPR Reduction in OFDM/OQAM Signals. , 2018, , .		2
84	Physical layer security for IEEE 802.15.7 visible light communication: chaosâ€based approach. IET Communications, 2020, 14, 3047-3057.	2.2	2
85	A Reinforcement Learning based Path Guidance Scheme for Long-range Autonomous Valet Parking in Smart Cities. , 2020, , .		2
86	Investigation of the impact of hop-count and node density on MANET's performance. , 2012, , .		0
87	Energy Efficient Communication in Ambient Assisted Living. , 2017, , 37-59.		0
88	A Local Differential Privacy based Hybrid Recommendation Model with BERT and Matrix Factorization. , 2022, , .		0