

Rizwan Ahmad

Professor

School of Electrical Engineering and Computer Science

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About

Dr. Rizwan Ahmad is working as Professor in the School of Electrical Engineering and Computer Science. Dr. Rizwan Ahmad has a PhD in Communication Networks. Dr. Rizwan Ahmad has published 89 research articles & conference papers having a citation count of 1244, carried out 8 projects and filed 0 intellectual property.

Qualifications

PhD in Communication Networks Victoria University , Australia	2006 - 2010
MS in Communication Engineering & Media Technology Universität Stuttgart , Germany	2003 - 2004
BSc in EE Islamic University of Technology , Bangladesh	1996 - 2000

Experience

Professor School of Electrical Engineering and Computer Science	2022- Present
Associate Professor School of Electrical Engineering and Computer Science	2019 - 2022
Assistant Professor School of Electrical Engineering and Computer Science	2016 - 2019
Assistant Professor School of Electrical Engineering and Computer Science	2013 - 2016
Assistant Professor School of Electrical Engineering and Computer Science	2013 - 2013
Lecturer School of Electrical Engineering and Computer Science	2004 - 2013
Postdoc Research Fellow Qatar University , Doha Qatar	2010 - 2012
Research Assistant Stuttgart Technology, Center Sony International , Stuttgart Technology, Center Sony International, Germany	2003 - 2004

Awards

Research Projects

National Projects

CSS based waveform design for Gr-Gr Communication System-Phase 1	2022
Funding Agency: NESCOM	
Amount: PKR 250,000.00	
Status: Approved_inprocess	
Design of a Low-Cost AI-Assisted Autonomous UAV-Surveillance System	2022
Funding Agency: NUST	
Amount: PKR 1,000,000.00	
Status: Approved_inprocess	
Event-Driven UAV Swarm Configuration Protocols	2021
Funding Agency: Defence R&D Dte	
Amount: PKR 4,191,663.00	
Status: Approved_inprocess	
Automatic Modulation Classification	
Funding Agency: Defense	
Amount: PKR 300,000.00	
Status: Approved_inprocess	
Design and Development of Smart Spraying System for Agricultural Drones	2022
Funding Agency: HEC	
Amount: PKR 19,874,000.00	
Status: Completed	
UAV assisted Disaster Response and Recovery (UDR2)	2022
Funding Agency: HEC	
Amount: PKR 15,818,000.00	
Status: Approved_inprocess	
Public Safety Communications in Context related to Terror Attacks (Counter Terrorism)	2018
Funding Agency: North Atlantic Teriority Organization (NATO)	
Amount: PKR 8,275,500.00	
Status: Approved_inprocess	

International Projects

Secure Vehicular Networks	2024
Funding Agency: International Partnership Fund of Nottingham Trent University	
Amount: PKR 1,492,201.00	
Status: Approved_inprocess	

Research Articles

WG-SLSQP: Weighted Geometric based Sequential Least Square Programming for Sink Node placement in WBAN	2024
Maria Hanif Rizwan Ahmad Abdul Hameed Muhammad Babar Muhammad Asim	
IEEE Access , Volume 12, Pages 125890-125905	
Impact Factor: 3.400 Quartile: 2 Citations: 1	
DOI: 10.1109/ACCESS.2024.3414129	
DAAG-SNP: Energy Efficient Distance and Angulation Based Agglomerative Clustering for Sink Node Placement	2024
Maria Hanif Rizwan Ahmad Waqas Ahmed Micheal Drieberg Muhammad Mahtab Alam	
IEEE Open Journal of the Communications Society, Volume: 5, Page(s):5013-5026	
Impact Factor: 6.3 Quartile: 1 Citations: 1	
DOI: 10.1109/OJCOMS.2024.3421901	
State-of-The-Art and Future Research Challenges in UAV Swarms	2024
Sadaf Javed Ali Hassan Rizwan Ahmad Waqas Ahmed Rehan Ahmed Ahsan Saadat Mohsen Guizani	
IEEE Internet of Things Journal, Volume 11, Issue 11, Pages 19023-19045	
Impact Factor: 8.200 Quartile: 1 Citations: 99	
DOI: 10.1109/JIOT.2024.3364230	

On Evaluation of discrete RL agents for Traffic Scheduling and Trajectory Optimization of UAV-based IoT Network with multiple RIS unit <i>Rizwan Ahmad Sania Gul Sheheryar</i> <i>International Journal of Innovations in Science and Technology</i> , Volume 6, No. 5, Pages 275–285 Impact Factor: 0 DOI: 101	2024
Optimal Sliding Window Selection in Non-Overlapping Backoff Algorithm for IEEE 802.15.6 WBAN <i>Abdul Saboor Rizwan Ahmad Waqas Ahmed Muhammad Mahtab Alam Ayman Radwan</i> <i>IEEE Communications Letters</i> , Volume 28, Issue 6, Pages 1467-1471 Impact Factor: 3.700 Quartile: 2 Citations: 2 DOI: 10.1109/LCOMM.2024.3384755	2024
Arithmetic N-gram: an efficient data compression technique <i>Ali Hassan Sadaf Javed Sajjad Hussain Rizwan Ahmad Shams Uddin Qazi</i> <i>Discover Computing</i> , Volume 27, Issue 1, Article Number 1 Impact Factor: 0 Citations: 4 DOI: 10.1007/s10791-024-09431-y	2024
Energy Efficiency and Latency Optimization for IoT URLLC and mMTC Use Cases <i>OSAMA ELGARHY LUCA REGGIANI Muhammad Mahtab Alam Ahmed Zoha Rizwan Ahmad ALAR KUUSIK</i> <i>IEEE Access</i> , Volume:12, Page:23132-23148 Impact Factor: 3.4 Quartile: 2 Citations: 21 DOI: 10.1109/ACCESS.2024.3364349	2024
Indoor PV Modeling Based on the One-Diode Model <i>Christopher Jun Qian Teh Micheal Drieberg Khairul Nisak Md Hasan Abdul Latif Shah Rizwan Ahmad</i> <i>Applied Sciences</i> , Volume: 14, Issue: 01, Article Number: 427 Impact Factor: 2.5 Quartile: 1 Citations: 2 DOI: 10.3390/app14010427	2024
Enhanced Border Surveillance through a Hybrid Swarm Optimization Algorithm <i>Mahnoor Tariq Ahsan Saadat Rizwan Ahmad Zainab Abaid Joel Rodrigues</i> <i>IEEE Sensors Journal</i> , Volume 23, Issue 22, Pages 28172-28181 Impact Factor: 4.3 Quartile: 1 Citations: 7 DOI: 10.1109/JSEN.2023.3317531	2023
A UAV-Assisted Edge Framework for Real-Time Disaster Management <i>Haris Ijaz Rizwan Ahmad Rehan Ahmed Waqas Ahmed Yan Kai Wu Jun</i> <i>IEEE Transactions on Geoscience and Remote Sensing</i> , Volume 61, Article Number 1001013 Impact Factor: 8.2 Quartile: 1 Citations: 23 DOI: 10.1109/TGRS.2023.3306151	2023
Fuzzy-Layered Recurrent Neural Network based Hybrid SWIPT Protocol for Cooperative Networks <i>Rubab Zahra Batool Ali Hassan Rizwan Ahmad Waqas Ahmed Joel J.P.C. Rodrigues Ayman Radwan</i> <i>IEEE Communications Letters</i> , Volume: 27, Issue: 8, Page(s):2247-2251, INSPEC Accession Number: 23552399 Impact Factor: 4.1 Quartile: 2 Citations: 1 DOI: 10.1109/LCOMM.2023.3283498	2023
A DRL Strategy for Optimal Resource Allocation Along With 3D Trajectory Dynamics in UAV-MEC Network <i>Rizwan Ahmad Tayyaba Khurshid Waqas Ahmed Muhammad Rehan Muhammad Mahtab Alam Ayman Radwan</i> <i>IEEE Access</i> , Volume 11, Pages 54664-54678 Impact Factor: 3.9 Quartile: 2 Citations: 16 DOI: 10.1109/ACCESS.2023.3278591	2023
A novel consensus-oriented distributed optimization scheme with convergence analysis for economic dispatch over directed communication graphs <i>Rizwan Ahmad Um-E-Habiba Alvi Waqas Ahmed Muhammad Rehan Ayman Radwan</i> <i>Soft Computing</i> Impact Factor: 4.1 Quartile: 2 Citations: 11 DOI: 10.1007/s00500-023-08506-0	2023
UAV trajectory planning for disaster scenarios <i>Sadaf Javed Ali Hassan Rizwan Ahmad Waqas Ahmed Muhammad Mahtab Alam Joel J.P.C. Rodrigues</i>	2023

On Coverage of Critical Nodes in UAV-Assisted Emergency Networks

2023

Rizwan Ahmad Maham Waheed Waqas Ahmed Muhammad Mahtab Alam Maurizio Magarini

Sensors , Volume 23, Issue 3, Article Number 1586

Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 12

DOI: 10.3390/s23031586

An Insight into the Machine-Learning-Based Fileless Malware Detection

2023

Rizwan Ahmad Osama Khalid Subhan Ullah Tahir Ahmad Saqib Saeed Dina A. Alabbad Mudassar Aslam Attaullah Buriro

Sensors , Volume 23(2), Article Number 612

Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 26

DOI: 10.3390/s23020612

Getting Smarter about Smart Cities: Improving Data Security and Privacy through Compliance

2022

Rizwan Ahmad Mudassar Aslam Muhammad Abbas Khan Abbasi Tauqeer Khalid Rafi Us Shan Subhan Ullah Tahir Ahmad Saqib Saeed Dina A. Alabbad

Sensors , Volume 22, Issue 23, Article Number 9338

Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 22

DOI: 10.3390/s22239338

Data Protection and Privacy of the Internet of Healthcare Things (IoHTs)

2022

Rizwan Ahmad Jahanzeb Shahid Adnan K. Kiani Tahir Ahmad Saqib Saeed Abdullah M. Almuhaideb

Applied Sciences , Volume 12, Issue 4, Article Number 1927

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 105

DOI: 10.3390/app12041927

Unlocking Household Electricity Consumption in Pakistan

2021

Rizwan Ahmad Khurram Pervez Mina Farmanbar Muhammad Anser Bashir Sajid Mehmood Muhammad Sajid Khan Muhammad Umer Saeed

Buildings , Volume 11(11), Article Number 566

Impact Factor: 2.648 | **Quartile:** 2 | **Citations:** 14

DOI: 10.3390/buildings11110566

Analytical modelling of false blocking problem in wireless ad hoc networks

2021

Rizwan Ahmad Micheal Drieberg Wai Kheong Chong Varun Jeoti

Peer-to-Peer Network Applications , Pages 1-25

Impact Factor: 3.307 | **Quartile:** 2

DOI: 10.1007/s12083-021-01156-9

ProSe Direct Discovery: Experimental Characterization and Context-Aware Heuristic Approach to Extend Public Safety Networks Lifetime

2021

Ali Masood Muhammad Mahtab Alam Yannick Le Moullec Luca Reggiani Davide Scazzoli Maurizio Magarini Rizwan Ahmad

IEEE Access , Volume 9, Pages 130055-130071

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 8

DOI: 10.1109/ACCESS.2021.3112751

UAV-Assisted Wireless Localization for Search and Rescue

2021

Rizwan Ahmad Muhammad Atif Waqas Ahmed Linag Zhao Joel J. P. C. Rodrigues

IEEE Systems Journal , Volume 15, Issue 3, Pages 3261-3272

Impact Factor: 3.931 | **Quartile:** 1 | **Citations:** 115

DOI: 10.1109/JSYST.2020.3041573

Simple PV Modeling Under Variable Operating Conditions

2021

Christopher Jun Qian Teh Micheal Drieberg Socheatra Soeung Rizwan Ahmad

IEEE Access , Volume 9, Pages 96546-96558

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 25

DOI: 10.1109/ACCESS.2021.3094801

A Reinforcement Learning Routing Protocol for UAV Aided Public Safety Networks

2021

Hassan Ishtiaq Minhas Rizwan Ahmad Waqas Ahmed Maham Waheed Muhammad Mahtab Alam Sufi Tabassum Gul

Sensors , Volume 21(12), Article Number 4121

Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 23

DOI: <https://doi.org/10.3390/s21124121>

Power Optimization in Device-to-Device Communications: A Deep Reinforcement Learning Approach with Dynamic Reward <i>Rizwan Ahmad Zelin Ji Adnan K. Kiani Zhijin Qin</i> <i>IEEE Wireless Communications Letters</i> , Volume 10, Issue 3, Pages 508-511 Impact Factor: 5.281 Quartile: 1 Citations: 37 DOI: 10.1109/LWC.2020.3035898	2021
Content-driven networking in smart cities: Key issues and open challenges <i>Junling Shi Liang Zhao Ahmed Al-Dubai Jie Li Junling Shi Liang Zhao Ahmed Al-Dubai Rizwan Ahmad Jie Li</i> <i>Internet Technology Letters</i> , Volume 4, Issue 1, Article Number e264 Impact Factor: 0 DOI: 10.1002/ittl2.264	2021
UAV and SWIPT Assisted Disaster Aware Clustering and Association <i>Rizwan Ahmad Muhammad Mahtab Alam Maurizio Magarinni Ali Hassan Waqas Ahmed</i> <i>IEEE Access</i> , Volume 8, Pages 204791-204803 Impact Factor: 3.367 Quartile: 2 Citations: 25 DOI: 10.1109/ACCESS.2020.3035959	2020
Latest Research Trends in Gait Analysis Using Wearable Sensors and Machine Learning: A Systematic Review <i>Rizwan Ahmad Abdul Saboor Triin Kask Alar Kuusik Muhammad Mahtab Alam Yannick Le Moullec Imran Khan Niazi Ahmed Zoha</i> <i>IEEE Access</i> , Volume 8, Pages 167830-167864 Impact Factor: 3.367 Quartile: 2 Citations: 103 DOI: 10.1109/ACCESS.2020.3022818	2020
Dynamic Slot Allocation using Non Overlapping Backoff Algorithm in IEEE 802.15.6 WBAN <i>Rizwan Ahmad Abdul Saboor Waqas Ahmed Adnan Khalid Kiani Muhammad Mahtab Alam Alar Kuusik Yannick Le Moulec</i> <i>IEEE Sensors Journal</i> , Volume 20, Issue 18, Pages 10862-10875 Impact Factor: 3.301 Quartile: 2 Citations: 33 DOI: 10.1109/JSEN.2020.2993795	2020
Surveying pervasive public safety communication technologies in the context of terrorist attacks <i>Rizwan Ahmad Ali Masood Davide Scazzol Muhammad Mahtab Alam Navuday Sharma Yannick Le Moulec Luca Reggiani Maurizio Magarini</i> <i>Physical Communication</i> , Volume 41, Article Number 101109 Impact Factor: 1.810 Quartile: 3 Citations: 30 DOI: https://doi.org/10.1016/j.phycom.2020.101109	2020
Energy and environmental performance of a higher education sector – a case study in the United Kingdom <i>Rizwan Ahmad Khuram Pervez Amber Ghulam Qadir Chaudhery Muhammad Sajid Khan Bilal Akbar Muhammad Anser Bashir</i> <i>International Journal of Sustainable Energy</i> , Volume 39, Issue 5, Pages 497-514 Impact Factor: 0 Citations: 7 DOI: https://doi.org/10.1080/14786451.2020.1720681	2020
Interference and Priority Aware Coexistence (IPC) Algorithm for Link Scheduling in IEEE 802.15.6 Based WBANs <i>Rizwan Ahmad Fawad Nawaz Khan Waqas Ahmed Muhammad Mahtab Alam Micheal Drieberg</i> <i>IEEE Access</i> , Volume 7, Pages 168736-168751 Impact Factor: 3.745 Quartile: 1 Citations: 19 DOI: 10.1109/ACCESS.2019.2955395	2019
Access Control for Fog/Cloud Enabled IoTs <i>Rizwan Ahmad Amna Riaz Adnan K. Kiani Shahzad Saleem</i> <i>International Journal of Computer Science and Information Security</i> , Volume 17, No. 9, Pages 48-63 Impact Factor: - DOI: https://www.academia.edu/40932965/Access_Control_for_Fog_Cloud_Enabled_IoTs	2019
A Machine Learning Approach to Achieving Energy Efficiency in Relay-Assisted LTE-A Downlink System <i>rizwan Ahmad Hammad Hassan Irfan Ahmed Hedi Khammari Ghulam Bhatti Waqas Ahmed Muhammad Mahtab Alam</i> <i>Sensors</i> , Sensors 2019, 19, 3461; doi:10.3390/s19163461 Impact Factor: 3.275 Quartile: 1 Citations: 9 DOI: 10.3390/s19163461	2019

Network coding and hierarchical modulation for energy efficient cooperative WBAN <i>Maham Waheed Sadaf Talha Rizwan Ahmad Adnan Khalid Kiani Waqas Ahmed Muhammad Mahtab Alam</i> <i>International Journal of Distributed Systems and Technologies (IJDST)</i> , Volume 10, Issue 3, Pages 90-110 Impact Factor: N/A Citations: 5 DOI: 10.4018/IJDST.2019070106	2019
Soft Computing techniques for dependable cyber physical systems <i>MUHAMMAD ATIF SIDDIQUE LATIF RIZWAN AHMAD ADNAN K. KIANI JUNAID QADIR ADEEL BAIG HISAO ISHIBUCHI WASEEM ABBAS</i> <i>IEEE Access</i> , Volume 7, Pages 72030-72049 Impact Factor: 3.745 Quartile: 1 Citations: 19 DOI: 10.1109/ACCESS.2019.2920317	2019
An Energy-Aware Transmission Target Selection Mechanism for UAV Networking <i>Rizwan Ahmad JIEHONG WU JIAN MA YINGYING ROU LIANG ZHAO</i> <i>IEEE ACCESS</i> , Volume 7, Pages 67367-67379 Impact Factor: 3.745 Quartile: 1 Citations: 9 DOI: 10.1109/ACCESS.2019.2918329	2019
A low complexity online controller using fuzzy logic in energy harvesting WSNs <i>Rizwan Ahmad Talha Azfar Waqas Ahmed Abdul Haseeb Sufi Tabassum Gul Fu-Chun Zheng</i> <i>Science China Information Sciences</i> , April 2019, Vol. 62 042305:1–042305:10 Impact Factor: 3.304 Quartile: 1 Citations: 9 DOI: 10.1007/s11432-018-9751-5	2019
Integration of millimeter-wave and optical link for duplex transmission of hierarchically modulated signal over a single carrier and fiber for future 5G communication systems <i>Rizwan Ahmad Afnan Riaz Salman Ghafoor</i> <i>Telecommunication Systems</i> , DOI 10.1007/s11235-019-00558-8, pp. 1-9 Impact Factor: 1.734 Quartile: 3 Citations: 4 DOI: DOI 10.1007/s11235-019-00558-8	2019
On Research Challenges in Hybrid Medium Access Control Protocols for IEEE 802.15.6 WBANs <i>Abdul Saboor Waqas Ahmed Adnan K. Kiani Yannick Le Moullec Muhammad Mahtab Alam Rizwan Ahmad</i> <i>IEEE Sensors Journal</i> , - Impact Factor: 3.067 Quartile: 1 Citations: 40 DOI: 10.1109/JSEN.2018.2883786	2018
A QoS MAC protocol for prioritized data in energy harvesting wireless sensor networks <i>Sohail Sarang Micheal Drieberg Azlan Awang Rizwan Ahmad</i> <i>Computer Networks</i> , NULL Impact Factor: 3.030 Quartile: 1 Citations: 30 DOI: 10.1016/j.comnet.2018.07.022	2018
On Achieving Throughput Optimality with Energy Predication-based Power Allocation in 5G Networks <i>Syed Fasih Ali Gardazi Waqas Ahmed Rizwan Ahmad Hassaan Khaliq Qureshi</i> <i>Transactions on Emerging Telecommunications Technologies</i> , Volume:29, Issue:10, Special Issue: SI, Article Number:e3438 Impact Factor: 1.258 Quartile: 4 Citations: 1 DOI: https://doi.org/10.1002/ett.3438	2018
Intelligent techniques for forecasting electricity consumption of buildings <i>M. Usman K.P. Amber Rizwan Ahmad M.W. Aslam A. Kousar M.S. Khan</i> <i>Energy</i> , NULL Impact Factor: 5.537 Quartile: 1 Citations: 179 DOI: 10.1016/j.energy.2018.05.155	2018
A unified approach of energy and data cooperation in energy harvesting WSNs <i>Roomana Yousaf Rizwan Ahmad Waqas AHMED Fu-chun ZHENG</i> <i>Springer Science China Information Sciences</i> , NULL Impact Factor: 2.731 Quartile: 2 Citations: 4 DOI: 10.1007/s11432-017-9257-1	2018
The Significance of a Building's Energy Consumption Profiles for the Optimum Sizing of a Combined Heat and Power (CHP) System?A Case Study for a Student Residence Hall <i>Khuram Pervez Amber Antony R. Day Naeem Iqbal Ratyal Rizwan Ahmad Muhammad Amar</i> <i>Sustainability</i> , NULL	2018

Impact Factor: 2.952 | **Quartile:** 2 | **Citations:** 4
DOI: 10.3390/su10062069

Techno, Economic and Environmental Assessment of a Combined Heat and Power (CHP) System?A Case Study for a University Campus 2018
Khuram Pervez Amber Tony Day Naeem Iqbal Ratyal Adnan Khalid Kiani Rizwan Ahmad
Energies , NULL

Impact Factor: 2.707 | **Quartile:** 3 | **Citations:** 16
DOI: 10.3390/en11051133

Towards Efficient Wireless Body Area Network Using Two-Way Relay Cooperation 2018
Maham Waheed Rizwan Ahmad Waqas Ahmed Micheal Drieberg Muhammad Mahtab Alam
Sensors , NULL

Impact Factor: 3.031 | **Quartile:** 1 | **Citations:** 41
DOI: 10.3390/s18020565

Fuzzy Power Allocation for Opportunistic Relay in Energy Harvesting Wireless Sensor Networks 2017
Roomana Yousaf Rizwan Ahmad Waqas Ahmed Abdul Haseeb
IEEE Access , Volume 5, Pages 17165-17176

Impact Factor: 3.557 | **Quartile:** 1 | **Citations:** 22
DOI: 10.1109/ACCESS.2017.2743063

MICPA: A Client-Assisted Channel Assignment Scheme for Throughput Enhancement in WLANs 2011
Fu-Chun Zheng Micheal Drieberg Rizwan Ahmad
IEEE Transactions on Vehicular Technology , Volume: 60, Issue 9, Pages 4497 – 4508

Impact Factor: 1.921 | **Quartile:** 1 | **Citations:** 8
DOI: 10.1109/TVT.2011.2171199

Minimum neighbour and extended Kalman filter estimator: a practical distributed channel assignment scheme for dense wireless local area networks 2010
Fu-Chun Zheng Micheal Drieberg Rizwan Ahmad
IET Communications , Volume: 4, Issue 15, Pages 1865 - 1875

Impact Factor: 0.963 | **Quartile:** 3 | **Citations:** 3
DOI: 10.1049/iet-com.2010.0069

Modeling Energy Consumption of dual-hop Relay based MAC Protocols in Ad Hoc Networks 2009
Fu-Chun Zheng Micheal Drieberg Rizwan Ahmad
EURASIP Journal on Wireless Communications and Networking , Volume 2009, Article Number 968323, 11 pages

Impact Factor: 0.732 | **Quartile:** 3 | **Citations:** 2
DOI: <https://doi.org/10.1155/2009/968323>

Conference Proceedings

A Digital Twin Approach to Dynamic Obstacle Avoidance in UAV Swarm Operations 2024
Rizwan Ahmad Waqas Ahmed Muhammad Mahtab Alam Muhammad Abdullah Anwar Muhammad Mehran Javed
Proceedings of the 2024 5th IEEE International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering, ELECOM 2024 res.country(153,)
Citations: N/A
DOI: 10.1109/ELECOM63163.2024.10892180

Human Activity Recognition Using WISDM: Exploring Class Balancing and ML Techniques 2024
Shams Uddin Qazi Rizwan Ahmad Waqas Ahmed Adnan Kiani Muhammad Mahtab Alam Maria Hanif
Proceedings of the 2024 5th IEEE International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering, ELECOM 2024 res.country(153,)
Citations: N/A
DOI: 10.1109/ELECOM63163.2024.10892156

Enhanced Forest Sound Classification Dataset: EFSC-24 2024
Rizwan Ahmad Shams Uddin Qazi Muhammad Mahtab Alam Mudasser Ahmad Ali Hassan Sadaf Javed
2024 5th IEEE International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering, ELECOM 2024 res.country(153,)
Citations: N/A
DOI: 10.1109/ELECOM63163.2024.10892163

Optimizing the Deployment of Multi-UAVs in Emergency Response Networks 2024
Rizwan Ahmad Waqas Ahmed Adnan Kiani Muhammad Mahtab Alam Ali Hassan Sadaf Javed

2024 19th Biennial Baltic Electronics Conference (BEC), res.country(64,)	
Citations: N/A	
DOI: 10.1109/BEC61458.2024.10737973	
Tight Coupling of GNSS and IMU using Extended Kalman Filtering	2024
<i>Rizwan Ahmad Muhammad Irfan Haider Jillani Muhammad Mahtab Alam Usman Muhammad Babri</i>	
<i>Proceedings of the Biennial Baltic Electronics Conference, BEC, res.country(212,)</i>	
Citations: N/A	
DOI: 10.1109/BEC61458.2024.10737945	
Performance Evaluation of Distance-Based Random Mean Shift Clustering and Humpback Whale Optimization Algorithm for Sink Node Placement in WBAN	2024
<i>Rizwan Ahmad Waqas Ahmed Micheal Dreiberg Muhammad Mahtab Alam Maria Hanif</i>	
<i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST, res.country(109,)</i>	
Citations: N/A	
DOI: 10.1007/978-3-031-72524-1_17	
Task Classification for Optimal Offloading and Resource Allocation in Vehicular Edge Computing	2023
<i>Memona Mubashir Rizwan Ahmad Ahsan Saadat Saqib Rasool Chaudhry Adnan K Kiani Muhammad Mahtab Alam</i>	
<i>2023 Eighth International Conference on Fog and Mobile Edge Computing (FMEC), res.country(64,)</i>	
Citations: N/A	
DOI: 10.1109/FMEC59375.2023.10306155	
Analyzing and Investigating encrypted traffic for social media application Instagram	2022
<i>Hameed Iqbal Rizwan Ahmad Waqas Ahmed Shams Qazi Muhammad Mahtab Alam</i>	
<i>2022 18th Biennial Baltic Electronics Conference (BEC), res.country(64,)</i>	
Citations: N/A	
DOI: 10.1109/BEC56180.2022.9935603	
Power Aware ON/OFF Switching Schemes for Energy Efficient Phantom Cellular Networks	2022
<i>M Naveed Anjum Rizwan Ahmad Ali Hassan Waqas Ahmed Muhammad Mahtab Alam</i>	
<i>Biennial Baltic Electronics Conference, BEC, res.country(64,)</i>	
Citations: N/A	
DOI: 10.1109/BEC56180.2022.9935605	
Improvement of QoS through Relay Selection For Hybrid SWIPT Protocol	2021
<i>Rizwan Ahmad Ali Hasan Rubab Zahra Batool Waqas Ahmed</i>	
<i>2021 IEEE 18th Annual Consumer Communications & Networking Conference (CCNC), res.country(233,)</i>	
Citations: N/A	
DOI: 10.1109/CCNC49032.2021.9369605	
Effects of Major Air Pollutants on Millimeter Wave Spectrum	2020
<i>Rizwan Ahmad Vandana Bassoo Durjan Sheena</i>	
<i>3rd International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering (ELECOM) 2020, res.country(153,)</i>	
Citations: N/A	
DOI: 10.1109/ELECOM49001.2020.9297032	
Performance Analysis of Interference and Priority aware Coexistence in IEEE 802:15:6 based WBANs	2020
<i>Rizwan Ahmad fawad khan Waqas Ahmed Muhammad Mahtab Alam</i>	
<i>17th Biennial Baltic Electronics Conference (BEC) 2020, res.country(64,)</i>	
Citations: N/A	
DOI: 10.1109/BEC49624.2020.9277066	
Managing Critical Nodes in UAV assisted Disaster Networks	2020
<i>Rizwan Ahmad Ali Hasan Muhammad Mahtab Alam Maurizio Magarinni</i>	
<i>17th Biennial Baltic Electronics Conference (BEC) 2020, res.country(64,)</i>	
Citations: N/A	
DOI: 10.1109/BEC49624.2020.9276993	
Semi-Static ON/OFF Switching Schemes for Energy Efficient Phantom Cellular Networks	2019
<i>Natasha Niaz Rizwan Ahmad Waqas Ahmed Liang Zhao Shahryar Saleem Natasha Niaz Rizwan Ahmad Waqas Ahmed Liang Zhao Shahryar Saleem</i>	
<i>18th IEEE International Conference on Ubiquitous Computing and Communications, res.country(48,)</i>	
Citations: N/A	
DOI: 10.1109/IUCC/DSCI/SmartCNS.2019.00046	

A Primer On Public Safety Communication in the Context of Terror Attacks: The NATO SPS “COUNTER-TERROR” Project <i>Rizwan Ahmad Muhammad Mahtab Alam Yannick Le Moullec Maurizio Magarinni Luca Regiani</i> <i>NATO Science for Peace and Security 'Cluster Workshop on Advanced Technologies' , res.country(20,)</i> Citations: N/A DOI: https://doi.org/10.1007/978-94-024-2021-0_3	2019
On The Impact Of Clustering For Energy Critical Public Safety Networks <i>Hassan Ishtiaq Minhas Rizwan Ahmad Waqas Ahmed Muhammad Mahtab Alam Maurizio Magarani</i> <i>2019 International Symposium on Recent Advances in Electrical Engineering (RAEE) , res.country(177,)</i> Citations: N/A DOI: 10.1109/RAEE.2019.8887025	2019
Device-to-Device Discovery and Localization Assisted by UAVs in Pervasive Public Safety Networks <i>Ali Masood Muhammad Mahtab Alam Rizwan Ahmad Navuday Sharma M. Mahtab Alam Yannick Le Moullec</i> <i>ACM MobiHoc workshop on innovative aerial communication solutions for Flrst REsponders network in emergency scenarios res.country(109,)</i> Citations: N/A DOI: 10.1145/3331053.3335031	2019
Evolution of Wireless Standards for Health Monitoring <i>Abdul Saboor Adeel Mustafa Rizwan Ahmad Muneeb Ahmed Khan Muhammad Haris Rashid Hameed</i> <i>2019 9th Annual Information Technology, Electromechanical Engineering and Microelectronics Conference (IEMECON), res.country(104,)</i> Citations: N/A DOI: 10.1109/IEMECONX.2019.8877040	2019
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