

SHAIKH, FAISAL KARIM

Professor

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RESEARCH INTEREST

My research focuses on wireless communication systems, with specialization in wireless sensor networks, ad hoc and mobile networks, and the Internet of Things (IoT). I work on developing delay-aware, energy-efficient, and tunable information delivery mechanisms to improve performance and reliability in resource-constrained environments. My interests further include vehicular ad hoc networks, body area networks, mobile and multimedia sensor networks, and IoT-enabled cyber-physical systems. I aim to design scalable communication protocols and intelligent networking solutions that enhance real-time data processing, interoperability, and network resilience.

EDUCATION

Post Doc Science and Technology Unit University of Umm Al-Qura, Makkah, KSA	Jul 2015
Doctor of Philosophy Computer Science Technische Universitate Darmstadt, Germany.	Jun 2010
Master of Engineering Communication Systems and Networks Mehran University of Engineering & Technology, Jamshoro, Pakistan.	Dec 2003
Bachelor of Engineering Computer System Engineering Mehran University of Engineering & Technology, Jamshoro, Pakistan.	Nov 2001

EMPLOYMENT HISTORY

Professor, Dept. of Telecommunication Engg., MUET, PK.	Dec 2017 – Till date
Chairman, Dept. of Telecommunication Engg., MUET, PK.	Dec 2024 – Till date Aug 2015 – Nov 2021
Associate Professor, Dept. of Telecommunication Engg., MUET, PK.	Apr 2012 – Nov 2017
Assistant Professor, Dept. of Telecommunication Engg., MUET, PK.	Jul 2010 - Mar 2012

<i>Mitarbeiter,</i> Dept. of Computer Science, TU Darmstadt, Germany.	Jun 2009 - Jun 2010
<i>Assistant Professor,</i> Dept. of Computer System and Software Engg., MUET, PK.	Aug 2004 - Jun 2010
<i>Lecturer,</i> Dept. of Computer System and Software Engg., MUET, PK.	Dec 2001- Aug 2004
<i>Research Assistant,</i> Dept. of Computer Science, University of Illinois at Urbana-Champaign, Urbana, IL, USA. (Internship)	Jun 2001 - Sep 2001

AWARDS & HONORS

- ◆ **Recognized in Stanford University & Elsevier's "World's Top 2% Scientists" list (2023, 2024).**
- ◆ EU Erasmus+ Staff Mobility, Universitaet Klagenfurt, Austria, Oct 2024.
- ◆ Outstanding Performance Recognition Award, Mehran UET, Jamshoro [Received on 28-11-2023]
- ◆ EU Erasmus+ Staff Mobility, Uni. of Milano, Italy 2022
- ◆ Best Research Paper Award 2017, HEC Pakistan [Received on 07-08-2019]
- ◆ EU Erasmus+ Staff Mobility, Uni. of Malaga Spain 2019
- ◆ Shield of Honor for organizing IMTIC, 2012, 2013, 2015, 2018, 2021, 2023, 2025.
- ◆ Shield of Honor for organizing WSN4DC, 2013.
- ◆ Ideal ICT Excellence Award, 2012.
- ◆ Full Scholarship for PhD at TU Darmstadt, Germany from MUET, PK., 2005.
- ◆ Secured THIRD position at Bachelor of Engineering, 2001.

RESEARCH SUPERVISION

PhD

Yahya Junejo (in progress, expected in Feb 2026)
Thesis: Handover Management in High Speed Railway 5G Beyond Communications

Sarang Karim [Defended in Dec 2023]
Thesis: Development Of Geo-Opportunistic and Clustering Routing Protocols For Efficient Data Transfer In Underwater Sensor Networks
Degree: Mehran University of Engineering & Technology, Jamshoro

Zartasha Baloach [Defended in Sep 2022]
Thesis: Big Data Analytics for Sensor-based Human Activity Recognition using Deep Learning
Degree: Mehran University of Engineering & Technology, Jamshoro

Tabassum Waheed [Defended in Feb 2022]
Thesis: Cross Layered Adaptive Reliability Enhancement Scheme For Emergency Traffic In Medical Body Area Networks
Degree: Hamdard University, Karachi.

M.E.

1. Permeshwari Soothar (in progress)
Thesis: Comparative Analysis of Energy-Efficient Strategies in Software-Defined Networking
2. Muntaha Memon (in progress)
Thesis: Machine Learning Enhanced IoT System for Accurate Water Contaminant Detection in Filtration Plants

3. Zain ul Abdin Shaikh (defended in 2024)
Thesis: Smart Water Quality Management System
4. Anum Shah (defended in 2020)
Thesis: To Design and Simulate Energy Efficient Campus
5. Pervaiz Ahmed Jamali (defended in 2019)
Thesis: Smart Waste Management Solution Using Sensor Technology
6. Saadia Kulsoom Memon (defended in 2019)
Thesis: IOT Based Smart Garbage Collection System
7. Sundas Metlo (defended in 2018)
Thesis: Crowd Source Based ITS for Mass Transit Systems
8. Sugandh Memon (defended in 2018)
Thesis: Smart Indoor Positioning Using BLE Technology
9. Komal Memon (defended in 2018)
Thesis: An Energy Efficient water quality monitoring using Underwater Sensor Networks
11. Muhammad Ahsan Memon (defended in 2017)
Thesis: An Experimental Study of Datarates over IoT for LiFi Broadcast Links
12. Abrar Hussain (defended in 2017)
Thesis: Energy Efficient Routing for Cognitive Radio based WSN.
13. Azam Rafique (defended in SS 2016)
Thesis: Traffic Congestion and Incident Warning Using Vehicle to Infrastructure Communication
14. Sarang Karim (defended in SS 2015)
Thesis: WSN Based Precision Agriculture for Wheat Crops.
15. Asghar Ahmed (defended in SS 2014)
Thesis: Optimization of 3G Radio Network Cooperation using MORAN and MOCN
16. Zaheer Dayo (defended in SS 2014)
Thesis: Design and Implementation of HW for Integrating Heterogeneous Wireless Networks
17. Suresh Kumar (defended in SS 2014)
Thesis: Prototype of Water Level and Flow Detection System for Floating WSN.
18. Shabana Hamid (defended in WS 2013)
Thesis: Quality of Information Metrics for Body Area Networks.
19. Nadeem Ahmed (defended in WS 2013)
Thesis: Inter-Vehicle Communication in Urban Terrains
20. Fayyaz Hussain (defended in WS 2013)
Thesis: Information Propagation in Rural Ambience - A VANET Perspective
21. Asghar Nadeem (defended in WS 2013)
Thesis: HW design for Elderly Care in Smart Environments
22. Umair Qureshi (defended in WS 2013)
Thesis: AQUARAD: A High Frequency Radio for Aquatic Application.
23. Zunera Aziz (defended in WS 2013)
Thesis: Reliable Data Transport in Intra-WBANs & Inter-WBANs Communication.
24. Mahreen Arain (defended in SS 2013)
Thesis: A Spatio-temporal Correlation Model for Visual Information in Multimedia WSN
25. Shamshad Ali (defended in SS 2013)
Thesis: Development of WSN Based Bridge Monitoring Application
26. Syeda Nida Sahar (defended in WS 2011)
Thesis: P2P based Data Management in Wireless Sensor Networks.

TALKS

- ◆ Invited Speaker: IMCSMS, Bhitshah, 22 Nov 2022, "Internet of Things enabled Smart Agriculture"
- ◆ Guest Speaker: SBBU, S. Benazirabad, 01 April 2021. "Current Trends and Applications in Internet of Things"
- ◆ Invited Talk: NCETIET, SU, Jamshoro 18 Nov 2020. "Internet of Things – Smart Infrastructure Perspective"

- ◆ Invited Talk: IEEE International Conference on Frontiers of Information Technology (FIT17), 18 Dec, 2017, Islamabad. *"Green IoT – An Energy Harvesting Perspective"*
- ◆ Invited Talk: IEEE ComSoc Summer School, UET Lahore *"Energy Harvesting for Internet of Things – Opportunities and Challenges"*
- ◆ Invited Talk, IEEE Seminar, DHA Suffa Uni., Karachi, Pakistan. Dec 07, 2015 *"Green Internet of Smart Things"*
- ◆ Invited Talk, IEEE PSGWC'13, MUET, Jamshoro, Pakistan, Oct 24, 2013 *"Internet of Smart Things - A Green Perspective"*
- ◆ Invited Talk, COMNET'13, UIT, Karachi, Pakistan, Mar 16, 2013. *Progressing Pakistan: ICT Everywhere "ICT Challenges"*
- ◆ Panel Discussion Talk, 3rd International Conference on Computer and Emerging Technologies ICCET 2013, Khairpur, Pakistan, Mar 06, 2012. *Role of ICT in mitigating energy crises in Pakistan*
- ◆ Invited Talk, IEEE Student Chapter Inauguration, Sukkur IBA, Pakistan, Sep 01, 2012. *"Information Dissemination in Internet of Smart Things – A WSN Perspective"*
- ◆ Invited Talk, World Telecom Day, MUET, Jamshoro, Pakistan, May 17, 2012. *"Internet of Smart Things"*
- ◆ Invited Talk, COMNET' 12, UIT, Karachi, Pakistan, Feb 11, 2012. *"Wireless Sensor Networks: Applications and Challenges Ahead"*
- ◆ WoWMoM'08, Newport Beach, CA, USA, June 2008 *"A comparative study of data transport protocols in wireless sensor networks"*
- ◆ PDP'07, Naples, Italy, Feb 2007. *"On modeling the reliability of data transport in wireless sensor networks"*
- ◆ EWSN'07, Delft, The Netherlands, Jan 2007 *"Meeting the Evolving Reliability Requirements for WSN Applications"*

RESEARCH GRANTS

- ◆ PI, 2023, "HIVE - Harnessing the Internet for Village Empowerment", IEEE Internet for All Call (\$12000.00)
- ◆ PI, 2023, "Monitoring of Groundwater using IoT" in response to the 2023 EPICS in IEEE. (\$9500.00)
- ◆ PI, 2022, Erasmus+ KA171 (Higher Education Students and Staff Supported by External Policy Fund Index), Partner University: Alpen-Adria-Universität Klagenfurt, Austria, funded by European Union. (~€ 20000.00)
- ◆ PI, 2022, Smart Tubewell for Energy Efficient Agriculture System (22-HAC-106) in response to the 2022 IEEE HAC/SIGHT Projects Call for Proposals Focused on Pressing Community Needs. (\$5000.00)
- ◆ Co-PI, 2022, SDN Based Educational Backbone Development, NRPU #16580 (Rs. 6.18 Million)
- ◆ Co-PI, 2018, Performance prediction and optimization of photonic circuits in presence of non-Gaussian correlated manufacturing uncertainties., SRGP #1718 (Rs. 0.305 Million).
- ◆ Co-PI, 2017, Self-Interference Cancellation in Co-Time Co-Frequency Full Duplex Cellular Communication System, funded by Higher Education Commission, SRGP #1718 (Rs. 0.305 Million).
- ◆ Co-PI, 2016, Substrate integrated waveguide metamaterials based novel antenna for future electronics, funded by Higher Education Commission, SRGP #772 (Rs. 0.37 Million).
- ◆ PI, 2015 – 2016, "Road Monitoring using Crowd Sourcing Approach" funded by NGIRI, National ICTRnD, Pakistan.
- ◆ PI, 2014 – 2015, "Security and Surveillance of Building (Educational Institutes) Using Wireless Sensor Networks" funded by NGIRI, National ICTRnD, Pakistan.

- ◆ Team Lead/Manager, iBOS: Interconnected BOdy Sensor Networks for Emergency Response Support, 2013-2014, 10-INF1236-10 from the Long-Term National Plan for Science, Technology and Innovation (LT-NPSTI), the King Abdul-Aziz City for Science and Technology (KACST), Kingdom of Saudi Arabia. (~ 50000\$)
- ◆ PI, May 2013 - March 2014, "SPS: Smart Parking System using Wireless Sensor Networks" funded by NGIRI, National ICTRnD, Pakistan.
- ◆ PI, May 2012 - March 2013, "ABLESCENTNet: A Wireless Sensor Network for Visually Impaired People" funded by NGIRI, National ICTRnD, Pakistan.

PUBLICATIONS

Journals: [55]

1. YS Junejo, FK Shaikh, BS Chowdhry, W Ejaz, SDN-Assisted Deep Q-Learning Framework for Adaptive Mobility and Handover Optimization in Hybrid 5G Networks, *Telecom* 7 (3), 49, 2026.[IF=2.8]-
2. Soothar, P., Wang, H., Dayo, Z. A., Kakepoto, F. G., & Shaikh, F. K., A Compact Trowel-Shaped Antenna for Next-Generation 6G Wireless Communication Systems. *Sensors*, 25(23), 7224. 2025
3. ZA Shaikh, UA Korai, FK Shaikh, SA Talpur, Smart Water Quality Management System: A Case Study of Tharparkar Region, *VFAST Transactions on Software Engineering* 13 (1), 207-216, 2025.
4. Junejo, Y. S., Shaikh, F. K., Chowdhry, B. S., & Ejaz, W. Adaptive Handover Management in High-Mobility Networks for Smart Cities. *Computers*, 14(1), 23, 2025.
5. UH Alvi, FK Shaikh, BS Chowdhry, Cultural Heritage Monitoring and Predictive Maintenance Using Internet of Things: Assessment and Future Aspects, *Journal of Mobile Multimedia* 20 (6), 1211-1250, 2024.
6. Junejo, Y. S., Shaikh, F. K., Chowdhry, B. S., Shah, A. A., & Ejaz, W., Converging Towards Open Radio Access Networks-A Comprehensive Review. *Journal of Mobile Multimedia*, 20(1), 175-212, 2024
7. F. K. Shaikh, S. Karim, S. Zeadally and J. Nebhen, "Recent Trends in Internet of Things enabled Sensor Technologies for Smart Agriculture," in *IEEE Internet of Things Journal*, 2022, doi: 10.1109/JIOT.2022.3210154. [IF: 10.238]
8. S Karim, FK Shaikh, BS Chowdhry Simulation-based quantitative analysis of efficient data transfer routing protocols for Internet of Underwater Things, *Simulation Modelling Practice and Theory* 121, 2022. [IF: 4.199]
9. Z Baloch, FK Shaikh, MA Unar CNN-LSTM-Based Late Sensor Fusion for Human Activity Recognition in Big Data Networks, *Wireless Communications and Mobile Computing* 2022 [IF: 2.146]
10. FK Shaikh, M Memon, NA Mahoto, S Zeadally, J Nebhen Artificial Intelligence Best Practices in Smart Agriculture, *IEEE Micro*, vol. 42, Issue 1, pp, 17-24, 2022 [IF: 4.175]
11. S. Karim, F. K. Shaikh, K. Aurangzeb, B. S. Chowdhry and M. Alhussein, "Anchor Nodes Assisted Cluster-Based Routing Protocol for Reliable Data Transfer in Underwater Wireless Sensor Networks," in *IEEE Access*, vol. 9, pp. 36730-36747, 2021, doi: 10.1109/ACCESS.2021.3063295. [IF: 3.745]
12. Sarang Karim, Faisal Karim Shaikh, Bhawani Shankar Chowdhry, Zahid Mehmood, Usman Tariq, Rizwan Ali Naqvi, Adnan Ahmed, GCORP: Geographic and Cooperative Opportunistic Routing Protocol for Underwater Sensor Networks, pp 1-18, *IEEE Access*. DOI : 10.1109/ACCESS.2021.3058600 [IF: 3.745]
13. Waheed, T., Aqeel-ur-Rehman, Karim, F., Ghani S. QoS Enhancement of AODV Routing for MBANs. *Wireless Pers Commun* (2020). Published: 23 June 2020 [IF:1.061]
14. S Zeadally, FK Shaikh, A Talpur, QZ Sheng, "Design architectures for energy harvesting in the Internet of Things", *Renewable and Sustainable Energy Reviews* 128, 109901, 2020. [IF: 10.556]

15. B Muneer, BS Chowdhry, H Zafar, Z Ali, FK Shaikh, "Polarization Agile Antenna for Underwater Communication Using Integrated Power Divider and Phase Shifter", *Wireless Personal Communications*, 1-13, 2020 [IF: 1.061]
16. A Talpur, FK Shaikh, N Baloch, E Felemban, A Khelil, MM Alam, Validation of Wired and Wireless Interconnected Body Sensor Networks, *Sensors*, 19 (17), pp. 1-23, 2019 [IF: 3.031]
17. Baloch, Z., Shaikh, F. K. & Unar, M. A. (2019). Deep Architectures for Human Activity Recognition using Sensors. *3C Tecnología. Glosas de innovación aplicadas a la pyme. Special Issue*, May 2019, pp. 14–35. doi: <http://dx.doi.org/10.17993/3ctecno.2019.specialissue2.14-35> ISSN 2254-4143
18. Sabir, Naveed, Anzal Ali Memon, and Faisal Karim Shaikh. "Threshold Based Efficient Road Monitoring System Using Crowdsourcing Approach." *Wireless Personal Communications*, 106(4), pp 2407-2425, 2019. [Impact Factor: 1.061]
19. Sundas Metlo, Mahnoor Gul Memon, Faisal Karim Shaikh, Mansoor Ali Teevno, Anum Talpur, Crowdsourced Based Vehicle Tracking System. *Wireless Personal Communications*, pp 1-19, 2019. [Impact Factor: 1.2]
20. Metlo, S. and Shaikh, F.K., 2018. Vehical Tracking Techniques in ITS: A Survey. *International Journal of Advanced Studies in Computers, Science and Engineering*, 7(4), pp.32-38.
21. Memon, S. A., Dahri, F. A., Abro F. R., Shaikh, F. K., Self-Interference Cancellation in Co-Time-Co-Frequency Full Duplex Cellular Communication. *International Journal of Advanced Computer Science and Applications*, 9(11), pp 347-352, 2018.
22. Memon, K., Bohra, N., Shaikh, F. K., Performance Comparison of Routing Protocols for Underwater Sensor Networks. *International Journal of Engineering & Technology*, 7(4.15), pp 178-181, 2018.
23. Zartasha Baloch, Faisal Karim Shaikh, Mukhtiar Ali Unar, A context-aware data fusion approach for health-IoT, *International Journal of Information Technology*, Springer, 10(3), pp 241–245, 2018.
24. Anum Talpur, Faisal K. Shaikh, Thomas Newe, Adil A. Sheikh, Emad Felemban and Abdelmajid Khelil, "Bloom Filter based Efficient Broadcast Algorithm for the Internet of Things", *International Journal of Distributed Sensor Networks*, vol. 13, no. 12, 2017 [Impact Factor: 1.787]
25. Mohsin Bilal, Faisal K. Shaikh, Muhammad Arif, Mudasser F. Wyne, "A revised framework of machine learning application for optimal activity recognition", *Cluster Computing*, Springer, Sep 2017. [Impact Factor 2.040]
26. Komal Memon; Nafeesa Bohra; Muhammad Fahad; Safiullah Shah; Faisal Karim Shaikh, "An Energy Efficient Water Quality Monitoring System Using Under Water Sensor Network", *International Journal of Chemical and Environmental Engineering*, Volume 8, No. 2, April 2017.
27. Korai, UA., Shaikh, FK., Kalwar, S., Soothar, KK., Muneer, B., Solangi, A., "Analyzing the Quality of Free Space Optical Signal in Fog: A Case Study of Pakistan", *Wireless Personal Communication*, vol. 95, no. 2, pp. 569-579, Jul 2017. [Impact factor: 1.061]
28. Arain, Q., Zhongliang, D., Memon, I., Arain, S., Shaikh, FK., Zubedi, A., Unar, MA., Ashraf, A., Shaikh, R., "Privacy Preserving Dynamic Pseudonym-Based Multiple Mix-Zones Authentication Protocol over Road Networks", *Wireless Personal Communication*, vol. 95, no. 2, pp. 505-521, Jul 2017. [Impact Factor: 1.061]
29. Faisal Karim Shaikh, Sherali Zeadally, Ernesto Exposito, "Enabling Technologies for Green Internet of Things", *IEEE Systems Journal*, vol. 11, no. 2, pp. 983-994, Jun 2017. [Impact Factor: 3.882]
30. Umair Mujtaba Qureshi, Faisal Karim Shaikh, Zunera Aziz, M. Zafi Z. Shah, Adil A. Sheikh, Emad Felemban, Saad Bin Qaisar, RF Path and Absorption Loss Estimation for Underwater Wireless Sensor Networks in Different Water Environments, *MDPI Sensors*, vol. 16, no. 6, 890, 2016. [Impact Factor: 2.677]
31. Faisal Karim Shaikh, Sherali Zeadally, Energy Harvesting in Wireless Sensor Networks: A Comprehensive Review, *Renewable and Sustainable Energy Reviews*, vol. 55, pp. 1041-1054, March 2016. [Impact Factor: 8.050]

32. Dayo, Z; Abro, F; Khuhawar, Faheem; Shaikh, F K, Design and Development of Hardware to Interconnect Heterogeneous Wireless Networks, Sindh University Research Journal (Science Series), vol. 48, no. 3, pp. 689-693, 2016.
33. Abdul Q. Ansari, Abdul L. Memon and Faisal K. Shaikh, "Application Specific Scheduling in WiMAX: Ensuring QoS in Application Mix Environment", BUJICT Journal, Volume 9, Special Issue, September 2016, pp. 35-40.
34. Emad Felemban, Faisal Karim Shaikh, Umair Mujtaba Qureshi, Adil A. Sheikh, and Saad Bin Qaisar, "Underwater Sensor Network Applications: A Comprehensive Survey," International Journal of Distributed Sensor Networks, vol. 11, no. 11, 2015. [Impact Factor: 1.239]
35. Ali S., Shaikh F.K., Chowdhry B.S., Felemban E., "Experimental Evaluation of Vibration Response based Bridge Damage Detection using Wireless Sensor Networks", Int. Journal of Wireless Personal Communications, Springer, vol. 85, no. 2, pp. 499-510, Nov 2015 [Impact Factor: 1.061]
36. Ali F., Shaikh F.K., Ansari A.Q., Mahoto N.A., Felemban E., "Comparative Analysis of VANET Routing Protocols- On Placement of Road Side Units", Int. Journal of Wireless Personal Communications, Springer, vol. 85, no. 2, pp. 393-406, Nov 2015 [Impact Factor: 1.061]
37. Samiya Qureshi, Faisal Karim Shaikh, Emad Felemban, "Crowd Detection and Estimation using WBAN to Assist Visually Impaired People", 29(4), Mehran University Research Journal of Engineering & Technology, 2015.
38. Ashraf, A, Ahmed A, Shaikh FK, Latif I, Rajput AQ, Ansari AQ, Hashmani M, Mussadiq M., The service-centric perspective of infrastructure sharing for Multi-Operator Core Networks. J. Appl. Environ. Biol. Sci., TextRoad Publications, vol. 4, no. 7S, pp. 504-513, 2014.
39. Qureshi, UM, Aziz Z, Shaikh FK, Bohra N, Memon AA, "Project Oriented Problem Based Learning - A Wireless Sensor Network Perspective", Springer International Journal on Wireless Personal Communications, vol. 76, no. 3, pp. 463-477, 2014. [Impact Factor: 1.061]
40. Faisal Karim Shaikh, Abdul Qadir Ansari, Naeem Ahmed Mahoto, "Assessing Data Transfer Reliability for Duty Cycled Mobile Wireless Sensor Network", Mehran University Research Journal of Engineering and Technology, Vol. 33, No. 1, 2014.
41. Naeem A. Mahoto, Faisal K. Shaikh, Abdul Qadir Ansari, "Exploitation of clustering techniques in transactional healthcare data", Mehran University Research Journal of Engineering and Technology, Vol. 33, No. 1, 2014.
42. Syeda Nida Sahar, Faisal Karim Shaikh, Imran Ali Jokhio, "P2P Data Management in Mobile Wireless Sensor Network", Mehran University Research Journal of Engineering and Technology, Vol. 32, No. 2, pp. 339-352, 2013.
43. Azad Ali, Abdelmajid Khelil, Faisal Karim Shaikh and Neeraj Suri, "Efficient Predictive Monitoring of Wireless Sensor Networks", In International Journal of Autonomous and Adaptive Communications Systems, Vol. 5, No. 3, pp. 233-254, 2012.
44. Javed Ali Baloach, Imran Ali Jokhio, Faisal Karim Shaikh, "Smart Sensor Network System For Environment Monitoring", Mehran University Research Journal of Engineering and Technology, Vol. 31, No. 3, pp. 495-502, 2012.
45. Sheeraz Memon, Faisal Karim Shaikh, Javed Baloach, "Automatic Speaker Identification Using Clinically Depressed Speech Content", Mehran University Research Journal of Engineering and Technology, Vol. 31, No. 2, pp. 259-264, 2012.
46. Imran Jokhio, Sana Hoor, Faisal Karim Shaikh, "A Trusted Naming Service for Things of Internet", Mehran University Research Journal of Engineering and Technology, Vol. 31, No. 2, pp. 325-334, 2012.
47. Faisal Karim Shaikh, Sheeraz Memon, Javed Baloach, "Modeling and Simulation of Sensor-to-Sink Data Transport Reliability in WSNs", Mehran University Research Journal of Engineering and Technology, Vol. 31, No. 1, pp. 129-136, 2012.
48. Asif Shah, Wajiha Shah, Faisal Karim Shaikh, "Flow Time Analysis of Load Management Late Arrival Discrete Time Queueing System with Dual Service Rate Using Hypogeometrical Distribution", Mehran University Research Journal of Engineering and Technology, Vol. 31, No. 1, pp. 67-74, 2012.

49. Faisal Karim Shaikh, Abdelmajid Khelil, Azad Ali and Neeraj Suri, "Reliable Congestion Aware Information Transport in Wireless Sensor Networks", In International Journal of Communication Networks and Distributed Systems, Vol. 7, No. 1/2, pp. 135-152, 2011.
50. Faisal Karim Shaikh, Wajiha Shah, Asif Shah, "On Efficient Data Reduction for Network Partition Forecasting in WSNs", Mehran University Research Journal of Engineering and Technology, Vol. 30, No. 2, pp. 347-358, 2011.
51. Syeda Nida Sehar, Faisal Karim Shaikh, Sana Hoor Jokhio, "P2P Based Data Management in WSN: Experiences and Lessons Learnt from a Real-World Deployment", Mehran University Research Journal of Engineering and Technology, Vol. 30, No. 4, pp. 689-698, 2011.
52. Wajiha Shah, Asif Shah, Faisal Karim Shaikh, "Transient analysis of Hysteresis Queueing Model with Internal Thresholds and Markovian Distribution Using Matrix Geometric Method", Mehran University Research Journal of Engineering and Technology, Vol. 30, No. 4, pp. 657-662, 2011.
53. Nawazish Naveed, M. Arfan Jaffar, Faisal Karim Shaikh, "Malignancy and Abnormality Detection of Mammograms using Classifier Ensembling" Mehran University Research Journal of Engineering and Technology, Vol. 30, No. 3, pp. 499-510, 2011.
54. Faisal Karim Shaikh, Tariq Jamil Saifullah, Nisar Ahmed Memon, "Exploiting Spatio-Temporal Correlation for Reliable Information Transport in WSNs", Mehran University Research Journal of Engineering and Technology, Vol. 30, No. 1, pp. 89-104, 2011.
55. Abdul Qadeer Rajput, Faisal Karim Shaikh and Abdul Qadir Ansari, "e-Learning: A Virtual Environment for Cooperative Distance and Affordable Online Education", Mehran University Research Journal of Engineering and Technology, Volume 22, Number 1, pp 57-64, January, 2003.

Conference/Workshop: [52]

1. YS Junejo, FK Shaikh, BS Chowdhry, W Ejaz, SDN-Based Mobility Management in Next Generation Cellular Networks, 1st International Conference on Innovations in Information and Communication Technologies. 2026
2. Junejo, Y. S., Shaikh, F. K., Chowdhry, B. S., & Ejaz, W., Role of AI and Open RAN in 6G networks: Performance impact and key technologies. In *2024 IEEE International Conference on Advanced Telecommunication and Networking Technologies (ATNT)* (Vol. 1, pp. 1-4). IEEE.
3. Noaman, H., Awan, A. S., Mushtaq, Z., Waqas, A., Shah, A. A., & Shaikh, F. K. (2024, August). Railway surface faults detection using dark field illumination and machine learning. In *AIP Conference Proceedings* (Vol. 3125, No. 1, p. 060002). AIP Publishing LLC.
4. Hafsa Talpur, Badar Muneer, Faisal Karim Shaikh, Umair Ahmed Korai, Design of Phased Array Antenna System for LoRa Applications, 7th International Multi-Topic ICT Conference (IMTIC), Jamshoro, Pakistan, 10-12 May, 2023
5. Mirza F, Junejo Y, Shaikh FK, Chowdhry BS, Shah A, "Smart railway level crossing system for avoiding accidents", 5th International Conference on Robotics and Automation in Industry (ICRAI), Peshawar, Pakistan, March 3-5, 2023.
6. Noman H, Awan AS, Kehar F, Shah A, Waqas A, Arain Q, Shaikh FK, "Development of Dark Field Illumination Algorithm for Railway Surface Fault using Machine Learning Approach", IEEE HONET 2022, December 19-21, 2022, Marietta, GA, USA.
7. Ghulam Hyder Palli, Badar Muneer, Bhawani Shankar Chowdhry, Faisal Karim Shaikh, "CovScan: Smart non-contact IR-Temperature scanning and online database system integrated with RFID authentication", The 16th IEEE International Conference Application of Information and Communication Technologies, 12-14 Oct 2022, Washington DC.
8. Qureshi, Mehak Fatima, Rizwan Ahmed Kango, Nafeesa Zaki, and Faisal Karim Shaikh. "Activity Monitoring of the Potential COVID'19 Individuals in Quarantine Facility." In *IECON 47th Annual Conference of the IEEE Industrial Electronics Society*, pp. 1-6. IEEE, 2021.
9. Karim, Sarang, Faisal Karim Shaikh, and Bhawani Shankar Chowdhry. "Void Handling in Routing Protocols for Underwater Wireless Sensor Networks: A Quantitative Analysis." In *2021*

IEEE 18th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET), pp. 137-142. IEEE, 2021.

10. T. Waheed, Aqeel-ur-Rehman, F. K. Shaikh and I. U. Khan, "WBAN Performance Evaluation at PHY/MAC/Network Layer using Castalia Simulator", 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS), 2019, pp. 1-6, doi: 10.1109/MACS48846.2019.9024824.
11. Memon, S.K., Shaikh, F.K., Mahoto, N.A. and Memon, A.A., 2019, January. IoT based smart garbage monitoring & collection system using WeMos & Ultrasonic sensors. In *2019 2nd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET)* (pp. 1-6). IEEE.
12. Zartasha Baloch, Faisal Karim Shaikh, Mukhtiar Unar, "A Context-aware Data Fusion Approach for Health-IoT", 3rd International Conference on Recent Trends in Computer Science and Electronics (RTCSE), 02-03 January 2018, Thailand.
13. Komal Memon, Nafeesa Zaki, Faisal Karim Shaikh, "Comparison of Performance Metrics In Routing Protocols for Underwater Sensor Networks", 3rd International Conference on Recent Trends in Computer Science and Electronics (RTCSE), 02-03 January 2018, Thailand.
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1. 2023 7th International Multi-Topic ICT Conference (IMTIC)
Location: Jamshoro, Pakistan
Editors: Faisal Karim Shaikh, Bhawani Shanker Choudhry, Muhammad Aamir, Umair Ahmed Korai
Publisher: IEEE USA
DOI: 10.1109/IMTIC58887.2023
2. 2021 6th International Multi-Topic ICT Conference (IMTIC)
Location: Jamshoro & Karachi, Pakistan
Editors: Faisal Karim Shaikh, Umair Ahmed Korai, Bhawani Shanker Chowdhry, Muhammad Aamir
Publisher: IEEE USA
DOI: 10.1109/IMTIC53841.2021
3. 2018 5th International Multi-Topic ICT Conference (IMTIC)
Location: Jamshoro, Pakistan
Editors: Bhawani Shanker Chowdhry, Faisal Karim Shaikh
Publisher: IEEE USA
DOI: 10.1109/IMTIC44629.2018
4. 2015 4th International Multi-Topic ICT Conference (IMTIC)
Location: Jamshoro, Pakistan
Editors: Bhawani Shanker Chowdhry, Faisal Karim Shaikh
5. Shaikh F.K., Chowdhry, B.S., Zeadally, S., Hussain, D.M.A., Memon, A.A., Uqaili, M.A. (Eds.), 2014. *Communication Technologies, Information Security and Sustainable Development*, Springer Verlag, Communications in Computer and Information Science, Vol. 414, 302 pages
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PROFESSIONAL ACTIVITIES

- ◆ Conference Chair: IMTIC Series since 2012
- ◆ **Member:** Working group on Internet of Things, Pakistan Telecommunication Authority, from 2020.
- ◆ **Member (IT Expert):** Complaint Redressal Committee, Sindh Police, 2016.
- ◆ **Member Technical Committee:** South East Asia Division, "Center for Tele Infrastructure (CTIF)", Aalborg University, Denmark.
- ◆ **TPC Member:** 14th International Conference on Mobile Systems and Pervasive Computing, Leuven, Belgium, July 24-26, 2017.
- ◆ **TPC Member:** International Conference on Ambient Systems, Networks and Technologies (ANT), 2013, 2014, May 16-19, 2017, Madeira, Portugal.
- ◆ **TPC Chair:** International Workshop on Collaborative Mobile Systems and Sensors Networks (CMSSN), Orlando, Florida, USA, Oct 31 - Nov 04, 2016.
- ◆ **TPC Member:** 10th IEEE International Conference on Open Source Systems & Technologies, 2015 | Lahore, Pakistan, 15-17 Dec, 2016.
- ◆ **TPC Member:** The 3rd EAI International Conference on IoT Technologies for HealthCare (HealthIoT), 2015 | Oct 18–19, 2016, VÄSTERÅS, SWEDEN.
- ◆ **TPC Member:** 14th International Conference on Frontiers of Information Technology (FIT), 2015 | Dec 19-21, 2016, Islamabad Pakistan.
- ◆ **TPC Member:** 9th EAI International Conference on Mobile Multimedia Communications, JUNE 18–19, 2016 | XI'AN, China
- ◆ **TPC Member:** 2nd EAI International Conference on Safety and Security in Internet of Things, OCTOBER 26–27, 2015 | ROMA, ITALY
- ◆ **TPC Member:** The 24th International Conference on Computer Communications and Networks (ICCCN), 2014 | Las Vegas, Nevada, USA, August 3 – 6, 2015.
- ◆ **TPC Member:** 2nd International Workshop on Body Area Sensor Networks (BASNet-2014) , Hasselt, Belgium (2-5 June 2014).
- ◆ **Resource Person,** Professional Course on "Emerging Networks - Wireless Sensor Networks", conducted by CERIC, MUET, Jamshoro. 5-9 November 2013.
- ◆ **TPC Member:** 1st International Conference on Modern Communication & Computing Technologies (MCCT'14), Pakistan, 2014
- ◆ **TPC Member:** International Workshop on Collaborative Mobile Systems and Sensors Networks (CMSSN), USA. 2015, 2014, 2013, 2012
- ◆ **HEC Approved PhD Supervisor,** 2011+.
- ◆ **Member,** HEC National Curriculum Review Committee (Telecommunication Systems), 2013+
- ◆ **Editorial Broad Member,** International Journal of Ubiquitous Computing (IJUC), 2010+
- ◆ **Member Advisory Board,** Sir Syed University Research Journal of Engineering and Technology, 2013+
- ◆ **TPC Chair and Organizer:** International Multi-Topic Conference, Pakistan, 2012, 2013.
- ◆ **TPC Member:** 2nd National Conference on Information Assurance (NCIA'13), Pakistan 2013.
- ◆ **TPC Member:** 11th International Conference on Frontiers of Information Technology, Pakistan, 2013.
- ◆ **TPC Chair and Organizer:** 1st International Conference on Wireless Sensor Networks for Developing Countries (WSN4DC), Pakistan, 2013.
- ◆ **TPC Member:** International workshop on Self-Organization in heterogeneous NETWORKS (ISONET) 2013 in conjunction with IEEE ICC 2013, 9-13 June, Budapest, Hungary.
- ◆ **TPC Member and Track Chair:** 4th International Conference on ICT for Muslim World (ICT4M'13), 2013, Morocco.
- ◆ **TPC Member,** INMIC, Karachi, 2011.
- ◆ **TPC Member,** IEEE Student Conference on Engineering Sciences and Technology, Jamshoro, 2011.
- ◆ **TPC Member,** Workshop on Problem based Learning, Jamshoro, 2011.

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To be furnished upon request.