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# Saleem Raza

*Curriculum Vitae*

## Research Interests

An independent and self-motivated researcher and academician with more than 12 years of experience spanning electronic, telecom, and computer networks. My passion for teaching and research is reflected through my achievements, I am truly believer that teaching and research can bring about progressive changes in society.

## Professional and Research Experience

| | |
|---|---|
| 2024 – date | **Assistant Professor**, *The University of Larkano, Pakistan*, <br> **Teaching:** Electronics and Telecommunication |
| 2013 – 2023 | **Assistant Professor**, *Quaid-e-Awam University of Engineering, Science & Technology, Pakistan*, <br> **Teaching:** Electronics and Telecommunication, (I was on PhD study leave to Germany during job) |
| 2016 – 2020 | **PhD Candidate**, *Otto-von-Guericke University Magdeburg, Germany*, <br> **Research areas:** Computer Communication and Wireless Networks |
| 2014 – 2016 | **PhD Candidate**, *University of Münster, Germany*, <br> **Research areas:** Computer Communication and Wireless Networks |
| 2011 – 2013 | **Lecturer**, *Sukkur IBA Community College, Naushahro Feroze, Pakistan*, <br> **Teaching:** Electronics and Computer Science, and Tutorials |
| 2007 – 2010 | **Executive Engineer Field Support WiMAX Networks**, <br> **Responsibilities:** *Field activities related to installation, configuration, testing, and maintenance of the WiMAX networks at customer and corporate side.* |

## Education

| | |
|---|---|
| 2014 – 2020 | **Ph.D Computer Science**, *Otto-von-Guericke University Magdeburg, Germany*, <br> **Dissertation title:** *"Medium Access Control Protocols for Reliable Communication in Low-Power Industrial Applications"* |
| 2009 – 2012 | **M.E Electronic Systems Engineering**, *(CGPA 3.37, (v.good))*, Mehran University of Engineering & Technology, Pakistan <br> **Thesis title:** *"WiMAX Femtocells Solutions, Strengths and Challenges"* |
| 2010 – 2011 (one semester) | **Erasmus Mundus (exchange student during masters)**, *Communication, Media and Information Technologies, Aalborg University, Copenhagen, Denmark* |
| 2002 – 2006 | **B.E Electronic Engineering**, *(CGPA 3.68 (v.good))*, Mehran University of Engineering and Technology, Pakistan <br> **Thesis title:** *"Analysis of GSM Network and Radio Path Loss"* |

## Supervision

I have the privilege to supervise several undergraduate final year projects as follows

| | |
|---|---|
| 2023 | **Design and Development of IoT Enabled Smart Car Parking System** |
| 2022 | **IoT-based Smart Home Using LoRa** |
| 2021 | **Face Detection Attendance System using Raspberry pi** |

**2015 The importance of the MAC layer for the vision of the Tactile Internet**

## Expertise and Skills (Intermediate, Basic)

| | |
|---|---|
| Programming | C++ Object Oriented Programming, C, and Python (MatplotLib, Pyplot, Pandas, Pygal, NumPy), Linux shell scripting |
| Simulation | OMNet++, Contiki-OS/Cooja |
| Basic hardware | Raspberry Pi, Arduino, ESP-32 |
| Miscellaneous | LaTeX/Overleaf, Inkscape, Subversion, GIT, Linux (Ubuntu Debian), Windows-OS, & Mac-OS |

## Awards, Grants, and Scholarships

**2019 Scholarship**, *STiBET DAAD for 3 months grant for completing the remaining my PhD research*

**2019 Recipient of the HEC travel grant for paper presentation at the CCNC 2019, USA**

**2018 scholarship**, *STiBET DAAD for 3 months grant for completing the remaining my PhD*

**2017 Best Paper Award**, *for VEHICULAR 2017 conference paper, IARIA conference*

**2010 scholarship**, *Erasmus Mundus Mobility for Life*,
6 months research stay at Aalborg University Copenhagen, Denmark

## Publications

### Journals

**2024** Muhammad Zawish, Fayaz Ali Dharejo, Sunder Ali Khowaja, **Saleem Raza,** Steven Davy, Kapal Dev, and Paolo Bellavista "AI and 6G Into the Metaverse: Fundamentals, Challenges and Future Research Trends". *IEEE Open Journal of the Communications Society (2024), (Impact factor: 6.3)*

**2023** Weizheng Wang, Zhaoyang Han, Thippa Reddy Gadekallu, **Saleem Raza**, Jawad Tanveer and Chunhua Su "Lightweight Blockchain-Enhanced Mutual Authentication Protocol for UAVs". **IEEE Internet of Things Journal (2023), (Impact factor: 10.6)**

**2023** Sunder Ali Khowaja, Parus Khuwaja, Fayaz Ali Dharejo, **Saleem Raza**, Ik Hyun Lee, Rizwan Ali Naqvi, Kapal Dev "ReFuSeAct: Representation fusion using self-supervised learning for activity recognition in next generation networks". **International Journal on Multi-Sensor, Multi-Source Information Fusion (2023), (Impact factor: 18.6)**

**2023** AshuTaneja, Shalli Rani, **Saleem Raza**, Amar Jain, & Shebnam M. Sefat. "Energy efcient IRS assisted 6G network for Industry 5.0". **Scientific Reports (2023), (Impact factor: 4.6)**

**2023** Shah Zeb, Muhammad Ahmad Rathore, Syed Ali Hassan, **Saleem Raza**, Kapal Dev, Giancarlo Fortino. "Towards AI-enabled NextG Networks with Edge Intelligence-assisted Microservice Orchestration". **IEEE Wireless Communications (2023), (Impact factor: 12.9)**

**2023** Aneela Pathan, Tayab D. Memon, **Saleem Raza**, Rizwan Aziz. "An autocorrelation-less single-bit Weiner filter on FPGA". **Journal of Biomedical Signal Processing and Control (2023), (Impact factor: 5.1)**

**2023** Shalli Rani, Divya, Gupta, **Saleem Raza**, Nawab Muhammad Faseeh Qureshi, Romany F. Mansour, Mahmoud Ragabd. "Security Paradigm for Remote Health Monitoring Edge Devices in Internet of Things". **Journal of King Saud University - Computer and Information Sciences 2023 (2023), (Impact factor: 8.839)**

**2020** Faheem, Muhammad, Rizwan Aslam Butt, Basit Raza, Hani Alquhayz, Muhammad Waqar Ashraf, **Saleem Raza**, and MD Asri Bin Ngadi. "FFRP: dynamic firefly mating optimization inspired energy efficient routing protocol for internet of underwater wireless sensor networks".**IEEE Access 8 (2020): pp.39587-39604, (Impact factor: 3.367 )**

2019 **Raza, Saleem**, Muhammad Faheem, and Mesut Guenes. "Industrial wireless sensor and actuator networks in industry 4.0: Exploring requirements, protocols, and challenges—A MAC survey". **International Journal of Communication Systems 32, no. 15 (2019): e4074. (Impact factor: 2.047 )**

2018 Nikoukar, Ali, **Saleem Raza**, Angelina Poole, Mesut Güneş, and Behnam Dezfouli. "Low-power wireless for the internet of things: Standards and applications".**IEEE Access 6 (2018): pp.67893-67926. (Impact factor: 3.367 )**

### Conferences

2020 Nikoukar, Ali, **Saleem Raza**, Tharakeswara Rao, Mesut Güneş, and Behnam Dezfouli. "Service Migrations in TSCH Network using Wireless Channel Estimation and Prediction." **INFORMATIK 2020 (2021).**

2019 **Raza, Saleem**, Tim van Der Lee, George Exarchakos, and Mesut Güneş. "A reliability analysis of TSCH protocol in a mobile scenario." **In 2019 16th IEEE Annual Consumer Communications & Networking Conference (CCNC), pp. 1-6. IEEE, 2019.**

2018 **Raza, Saleem**, Alfonso Ariza Quintana, Adarsh Agnihotri, Behnam Dezfouli, and Mesut Güneş. "Dual-Mode Time-Slotted (DMTS) MAC Protocol for Industrial Control Applications." **In 2018 IEEE GLOBECOM Workshops (GC Wkshps), pp. 1-6. IEEE, 2018.**

2018 van der Lee, Tim, **Saleem Raza**, George Exarchakos, and Mesut Gunes. "Towards co-located TSCH networks: An inter-network interference perspective." **In 2018 IEEE Global Communications Conference (GLOBECOM), pp. 1-6. IEEE, 2018.**

## Scientific Activities

### Memberships

2019 - present **IEEE ComSoc**, Member **IEEE, Internet of Things**, Member

2007 - present **Pakistan Engineering Council**, Member

### External Reviewer

Conferences  IEEE PIMRC, GLOBECOM, Med-Hoc-Net, WTS, CCNC

Journals  IEEE Access, IEEE Network Magazine, IEEE Journal of Internet Technology, International Journal Communication Systems (Wiley), Journal of Future Generation Computer Systems (Elsevier), Adhoc-networks (Elsevier), BS/BE, MS/ME and PhD thesis Evaluator

## Languages

English **(fluent)**, Urdu **(fluent)**, Sindhi **(native)**, German **(beginner)**

## Interests and Hobbies

Reading magazine/books/newspapers, playing cricket, photography, movies, traveling

## References

**Prof. Dr. Mesut Güneş**, Chair of Communication and Networked Systems (ComSys), Institute for Intelligent Cooperating Systems, Otto-von-Guericke-University Magdeburg, Germany, email: mesut.guenes@ovgu.de

**Dr. Kapal Dev**, *Assistant Lecturer*, Munster Technological University, Cork, Ireland, email: kapal.dev@mtu.ie