

ENGR. Dr. MUHAMMAD SALMAN QAMAR
(10/11/1988)
Contact: +92-332-8930645



Summary:

Engr. Dr. M. Salman Qamar is an accomplished educator and administrator with over 12 years of experience in higher education. He holds PhD in Electrical Engineering and excels in curriculum development, instructional technology, and student mentoring. He has consistently received high evaluations for his teaching of undergraduate and graduate courses, demonstrating his ability to engage and inspire students.

In his administrative roles, he has successfully led academic departments, managed budgets, and coordinated accreditation processes. He has developed strategic plans and policies that enhance academic standards and faculty development. His expertise and dedication make him a valuable asset to any educational institution.

Research Interests

Next-generation wireless and mobile networks: Wireless communications and networking, edge cloud and computing, Internet-of-Things (IoT) systems, mobile and embedded systems.

QUALIFICATIONS:

Ph.D IN ELECTRICAL ENGINEERING

Degree : Ph.D (ELECTRICAL ENGINEERING) [2024]
Institute : International Islamic University Islamabad, Pakistan.
Current CGPA : 3.33
Specialization : Communication Systems
Thesis Title : Energy Efficiency Management in Wireless Sensor Network

MS IN ELECTRICAL ENGINEERING

Degree : MS (ELECTRICAL ENGINEERING) [2014]
Institute : COMSATS University, Islamabad, Pakistan.
CGPA : 3.03
Thesis Title : Detection of the targets in a Uniform Linear Array antenna system using hybrid Particle Swarm Optimization

BACHELOR IN ENGINEERING

Degree : BSc (ELECTRONICS ENGINEERING) [2011]
Institute : COMSATS University, Islamabad, Pakistan.
PEC REG # : Electro/14643
Final year project: Induction motor trainer (controlling the speed of motor by increasing the torque and displaying the rpm, torque, speed on display meter).

ACADAMIC EXPERIENCE:

- Currently working as an **Associate Professor (Postdoc Position)** at **School of Engineering, Xi'an International University, Xi'an, Shaanxi, China**
(From 1st Jan 2025 to Present)
 - Delivering lectures to Masters Level students
 - Writing and publishing scientific research articles in the well-reputed international journals
- worked as an **Assistant Professor** at Department of Electrical Engineering & Technology, **Qurtuba university of science & IT, D.I.Khan, KPK, Pakistan**
(From 14th March 2018 to 13th August 2023) **(5-Years, 5-Months)**
 - Also performed additional duty as a **Program Coordinator** for Electrical Engineering Department (From 1st Sep 2017 to 13th August 2023) **(6-Years)**
 - Delivered lectures to Undergraduate Level students
 - Supervised Final Year Projects (FYP) to Undergraduate Level students
 - published scientific research articles in the well-reputed international journals
 - Experienced **10** Pakistan Engineering Council (PEC) accreditation visits
- Worked as a **Lecturer** at Department of Electrical Engineering & Technology, **Qurtuba university of science & IT, D.I.Khan, KPK, Pakistan**
(From 8th Aug 2015 to 13th March 2018). **(2-Years, 7-Months)**

TECHNICAL EXPERIENCE:

- Worked as a **Support Engineer** at **AL-REHMAN ENTERPRISES, Islamabad, Pakistan** (from 1st Jan 2012 to 5th August 2015) **(3-Years, 8-Months)**

PUBLICATIONS:

- (1) **Muhammad Salman Qamar**, Muhammad Fahad Munir, "A Hybrid Framework Integrating Deterministic Clustering, Neural Networks, and Energy-Aware Routing for Enhanced Efficiency and Longevity in Wireless Sensor Network" *CMC*, **2025**, doi.org/10.32604/cmc.2025.064442, **IF (2.1)**
- (2) **Muhammad Salman Qamar**, Muhammad Fahad Munir, Athar Waseem "AI for Cleaner Air: Predictive Modeling of PM2.5 Using Deep Learning and Traditional Time-Series Approaches" *CMES*, **2025**, **IF (2.5) (Accepted)**
- (3) **Muhammad Salman Qamar**, Ihsan ul Haq, Amil Daraz, Atif M. Alamri, Salman A. AlQahtani "A Novel Approach to Energy Optimization: Efficient Path Selection in Wireless Sensor Networks with Hybrid ANN" *CMC*, **2024**, Vol.79, No.2, pp. 2945-2970, 2024, DOI:10.32604/cmc.2024.050168, **IF (2.1)**
- (4) **M. S. Qamar**, I. u. Haq, M. F. Munir, M. B. Roslee, A. A. Awan and A. Waseem, "Enhancing Energy Efficiency in WSNs With Hybrid LEACH-D and ANN," **2024** Multimedia University Engineering Conference (MECON), Cyberjaya, Malaysia, **2024**, pp. 1-6, doi: 10.1109/MECON62796.2024.10776481.
- (5) **Muhammad Salman Qamar**, Shanshan Tu*, Farman Ali*, Ammar Armghan, Muhammad Fahad Munir, Fayadh Alenezi, Fazal Muhammad5, Asar Ali, Norah Alnaim "Improvement of Traveling Salesman Problem Solution using Hybrid Algorithm based on Best-Worst Ant System and Particle Swarm Optimization" *Applied Science*, **2021 IF (2.838)**
- (6) Farman Ali, Muhammad Shakeel, Asar Ali, Wajid Shah, **Muhammad Salman Qamar**, Shabbir Ahmad, Usman Ali, Muhammad Waqas "Probing of nonlinear impairments in long range optical transmission systems" *Journal of Optical Communications*, **2024 IF (3.84)**
- (7) Ammar Armghan, Shobhit K Patel, Sunil Lavadiya, **Salman Qamar**, Meshari Alsharari, Design and fabrication of compact, multiband, high gain, high isolation, metamaterial-based MIMO antennas for wireless communication systems, *Micromachines*, **2023 IF (2.9)**
- (8) Khurram Hameed, Wasim Khan, Armghan, Muhammad Asif, **Muhammad Salman Qamar**, Farman Ali*, Md Sipon Miah, Mohammad Alibakhshikenari and Mariana Dalarsson "Far-Field DOA Estimation of Uncorrelated RADAR Signals through Coprime Arrays in Low SNR Regime by Implementing Cuckoo Search Algorithm" *Electronics*, **2022, IF (2.690)**
- (9) Farman Ali* Ammar Armghan Fayadh Alenezi Ziaul Haq Abbas Asar Ali **Muhammad Salman Qamar** "Alleviation of Non-linear Channel Effects in Long-Haul and High Capacity Optical Transmission Networks" *International Journal of Communication Systems*, **2022 IF (1.882)**
- (10) Khurram Hameed; Shanshan Tu; Nauman Ahmed; Wasim Khan; Ammar Armghan; Fayadh Salman Alenezi; Norah Alnaim; **Muhammad Salman Qamar**; Abdul Basit; Farman Ali* "DOA Estimation at low SNR through Coprime Arrays: An Innovative Approach by Applying Flower Pollination Algorithm" *Applied Science*, **2021 IF (2.679)**
- (11) Farman Ali* Ammar Armghan, Fazal Muhammad, Usman Habib, Asar Ali, **Muhamamd Salman Qamar**, Usman Ali, Maqsood Ahmad Khan "Beyond 4×100 Gbps Optical Backhaul Network with DSP Assistance based Nonlinear Impairments Mitigation" *Radio Science IF (1.431)*
- (12) Muhammad Abid Farman Ali* Ammar Armghan Fayadh Alenezi Sharoz Khan Fazal Muhammad Maqsood Ahmad Khan **Muhammad Salman Qamar** "Architecture Optimization for Filtered Multicarrier Waveforms in 5G" *Wireless Personal Communications*, **2022, IF (1.671)**
- (13) Asar Ali, Farman Ali *, Muhammad Irfan, Fazal Muhammad, Adam Glowacz*, **Salman Qamar** "Mechanical Pressure Characterization of CNT-Graphene Composite Material" *Micromachines*, **2020 IF(3.5)**
- (14) K Hammed, SA Ghauri, **MS Qamar**, Biological inspired, stochastic technique (PSO) for antenna array signal processing in RADAR communication system., *Journal of Sensors* 2016 (Hindawi Publishing Corporation *Journal of Sensors* Volume **2016**, Article ID 9871826) **IF (3.576)**
- (15) IU Khan, U Ali, **MS Qamar**, I Ahmed, An efficient TDMA-Based protocol using inter-relay displacement analysis *Science International* 28 (2), **2016 IF (1.852)**

Google Scholar Profile:

https://scholar.google.com/citations?hl=en&user=PUtZRTsAAAAJ&view_op=list_works&sortby=pubdate

Memberships and ORIC ID:

- Pakistan Engineering Council (PEC) (PEC Reg. number: **Electro/14643**)
- 0000-0002-4691-6044

CONFERENCES/WORKSHOPS/SEMINARS

- Attended two days' workshop on **Outcome-Based Education System & Implementation** held at Qurtuba University, D.I. Khan, organized by Qurtuba University of Science & It, D.I. Khan in collaboration with of Pakistan Engineering Council. **(1 CPD)**
- Attended one day workshop on **Software Defined Radio** held at International Islamic University, Islamabad. **(0.5 CPD)**
- Completed two days training on **Q-OBE software developed by Alfoze**, held at Qurtuba University, D.I. Khan, organized by Qurtuba University of Science & It, D.I.khan. **(1 CPD)**
- Attended one day seminar on **Outcome-Based Education System** at Qurtuba University, D.I. Khan.
- Attended one day workshop on **The Publication cycle: Student's perspective** held at International Islamic University, Islamabad. **(0.5 CPD)**
- Attended one day online seminar on **Navigating the pathways of publishing in High-quality journals**
- Attended one day seminar on **Artificial Intelligence- Challenges and** held at the Institute of Engineers Pakistan, Karachi Center (Online). **(0.5 CPD)**

PERSONAL DATA

Father Name	:	Qamar-Uz-Zaman
Nationality	:	Pakistani
CNIC #	:	12101-2030618-1
Domicile	:	Dera Ismail Khan (KPK Province), Pakistan
Religion	:	Islam
E-mail address	:	mskhan131@yahoo.com
Permanent Address	:	House # 41, Haleem colony, Paracha Street, north circular road, Dera Ismail Khan, KPK Province, Pakistan
Marital Status	:	Married
Languages	:	English, Urdu
Passport #	:	EK4226182 (Valid till 30 th Oct 2029)

COMPUTING & COMMUNICATION SKILLS

- **Applications:** VSDC editing software, Lab View, Python, MATLAB, C++, Proteous, MultiSim, MS Office, MS World, Excel, MS Power point, Networking.
- **Operating Systems:** Windows (installation and troubleshooting).
- Full current clean and valid **driving license**

EXTRA SKILLS

- Reporting and statistical analysis skills.
- Work independently with minimum supervision.
- Team player with strong interpersonal skills.
- Can take initiative and be able to perform under pressure.

References

1. **Dr. Ihsan ul Haq**,
Associate Professor/HoD, Department of Electrical & Computer Engineering,
International Islamic University, Islamabad, Pakistan
Email: ihsanulhaq@iiu.edu.pk
2. **Dr. Adnan Anwar Awan**,
Assistant Professor, Department of Electrical Engineering
School of Engineering, California Polytechnic State University. San Luis Obispo, CA, USA
Email: adawan@calpoly.edu