



Engr. Dr. Jawwad Ahmad

Assistant Professor (HEC Approved Ph.D Supervisor)

Contact Information:

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Ext.: 3104

Qualification

- **Philosophy of Doctorate, Telecommunication Engineering**

Year 2014

IQRA University, Karachi

- **Master of Science, Telecommunication Engineering**

Year 2006

Usman Institute of Technology, Karachi

- **Bachelor of Science, Electronics Engineering**

Year 2002

Sir Syed University of Engineering & Technology, Karachi

- **Intermediate in Science, Pre-Engineering**

Year 1998

D.J. Sindh Govt. Science College.

- **Matriculation in Science**

Year 1996

St. Paul's English High School

Area of Specialization

- Adaptive Filtering
- Artificial Neural Network
- Heuristic Optimization Techniques
- MIMO Systems

Work Experience

- **USMAN INSTITUTE OF TECHNOLOGY (Affiliated with NEDUET)**
 - Assistant Professor
 - February 03rd, 17 – Till Present
- **IQRA UNIVERSITY**
 - Assistant Professor
 - January 1st, 08 – February 19th, 17
- **USMAN INSTITUTE OF TECHNOLOGY (Affiliated with Hamdard University)**
 - Lecturer
 - February 20th, 06 – December 31st, 07
- **JINNAH UNIVERSITY COLLEGE**
 - Assistant Professor
 - June 1st, 05 – February 19th, 06
- **JINNAH ENGINEERING COLLEGE**
 - Lecturer
 - December 10th, 03 – May 31st, 05
- **DYNAMIC ENGINEERING**
 - Design Engineer
 - July 15th, 03 – November 30th, 03
- **KIRAN COMMUNICATION**
 - Design Engineer
 - October 10th, 02 – June 30th, 03

Membership & Affiliation

- PEC Member with PEC Number: ELECTRO-6822
- IEEE Member
- IEEEEP Member

Research Interests

- Soft Computing
- Artificial Intelligence
- Robotics & Automation

Courses Taught

- Adaptive Algorithms and Applications
- Digital Signal Processing
- Mobile and Wireless Communication
- Radiating Systems and Antenna
- Digital Communication System
- Communication System
- Industrial Electronics
- Electrical Measurement & Instrumentation
- Electrical Machine
- Electronic Design & Workshop
- Electromagnetic Field Theory
- Logic Design & Switching Theory
- Electronics Design & Circuits
- Basic Electronics
- Applied Physics

Publications & Conferences

- **Jawwad Ahmad**, Muhammad Zubair, Syed Sajjad Hussain Rizvi, "*Directivity Gain Improvement in Phase Array Antenna via a Novel L2-Norm Adaptive Beamforming Algorithm*", International Journal of Future Generation Communication and Networking (ISSN: 2233-7857), 2017, ISI E-SCI Indexed (Accepted for publication)
- Syed Sajjad Hussain Rizvi, Muhammad Zubair, **Jawwad Ahmad**, "*A Novel Two Dimensional Adaptive Filtering Algorithm for Image De-Noising via Fractional Gradient*" International Journal of Security and its Applications (ISSN:1738-9976), 2017, ISI E-SCI Indexed (Accepted for publication)
- **Jawwad Ahmad**, Muhammad Usman, Shujaat Khan, Imran Naseem, Hassan Jamil Syed, "*A Robust Variable Power Fractional LMS Algorithm*", 2016 IEEE International Conference on Control System, Computing and Engineering (ICCSCE). IEEE, 2016.
- Muhammad Zubair, **Jawwad Ahmad**, Syed Sajjad Hussain Rizvi "*Designing Microstrip Patch Antennas using a Heuristic Approach*", Electronics World, Vol. 122, No. 1959, March 2016
- **Jawwad Ahmad**, Muhammad Moinuddin, Kamran Raza "*Novel Beamforming algorithm for ultra wide band used in the MIMO architecture*", Electronics World, Vol. 120, No. 1933, January 2014
- Syed Sajjad Hussain, Zubair Ahmed, **Jawwad Ahmad**, and Abid Karim "*Active Node Based Sensor Wireless Network for Energy Management*", International Journal of Engineering and Technology, Vol. 4, No. 5, October 2012