

NATIONAL UNIVERSITY OF MODERN LANGUAGES  
DEPARTMENT OF ENGINEERING

FACULTY PROFILE



**a. GENERAL INFORMATION**

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5. STATUS: CONTRACTUAL
6. DESIGNATION: ASSISTANT PROFESSOR

**b. EDUCATION**

PhD. EE (Specialization in Communication), In Progress  
MS(EE) Specialization in Communication , International Islamic University, Islamabad, Pakistan.  
2010  
BE Telecommunication Engineering, IET, AIOU, Islamabad. Pakistan. 2007

**c. EXPERIENCE**

1. As a Assistant Professor in Department of Electronics Engineering, Faculty of engineering & Technology at International Islamic University From 07/04/11 to till date.
2. As a Assistant Professor in department of Engineering at National University of Modern Languages From 01/08/13 to 07/04/14.
3. As a Lecturer in department of Engineering at National University of Modern Languages From 10/103/10 till 31/07/13.
4. As a Visiting Lecturer in department of Engineering at National University of Modern Languages From August 2009 till January 2010.
5. As a Visiting Lecturer in department of Engineering at IQAR University, Islamabad. From August 2009 till February 2010.
6. As a Lecturer/Programme Coordinator in department of Telecomm Engineering at IET, AIOU campus, From 01/10/07 till 31/07/09.

**d. AREA OF INTEREST**

Communication Systems, Coding Theory, Cognitive Radios, Signal Processing

## **e. PUBLICATIONS**

**2014**

1. **Sajjad Ahmed Ghauri**, IjazMansoor Qureshi, Adnan Aziz, Tanveer Ahmed Cheema, "Classification of Digital Modulated Signals using Linear Discriminant Analysis on Faded Channel" World Applied Sciences Journal, Volume 29, Issue 10, pp. 1220-1227, 2014.
2. **Sajjad Ahmed Ghauri**, IjazMansoor Qureshi, AqdasNaveed Malik, Tanveer Ahmed Cheema, "Automatic Digital Modulation Recognition Technique using Higher Order Cummulants on Faded Channels" J. Basic. Appl. Sci. Res., 4(3)1-12, 2014.

**2013**

### **JOURNAL**

1. **Sajjad Ahmed Ghauri**, IjazMansoor Qureshi, AqdasNaveed Malik, Tanveer Ahmed Cheema "Higher Order Cummulants based Digital Modulation Recognition Scheme", Research Journal of Applied Sciences Engineering & Technology (RJASET), 2013.
2. **Sajjad Ahmed Ghauri**, Bilal Arshad, Agha Saif, I. M. Qureshi "Performance of Space Time Codes and Quasai Orthogonal STC on Fading Channel" International Journal for Infonomics (IJI), Special Issue, Volume 1, Issues 1, 2013.
3. **Sajjad Ahmed Ghauri**, IjazMansoor Qureshi, SumrinMehakKabir, Asra Ashraf, AsmaNaeem "Priority based Bandwidth Allocation in Cognitive Radio Network using Cooperative Game Theory", International Journal of Technology and Research, (IJTNR), 2013.
4. **Sajjad Ahmad Ghauri**, I M Qureshi, M. FarhanSohail ,SherazAlam, M. Anas Ashraf, "Spectrum Sensing for Cognitive Radio Network over Fading Channel" ,International Journal of Computer & Electronics Research (IJCER), Volume 2, Issue 1, February 2013 ,pp 31-34.
5. **Sajjad Ahmed Ghauri** , SherazAlam , FarhanSohail, Asad Hussain , "Adaptive Filter Algorithms for Noise & Echo Cancellation", International Journal of Computer & Communication Engineering (IJCCER), 2013.
6. **Sajjad Ahmed Ghauri**, HannanAdeel, Syed Shajar Abbas, Arooj Mir, Iqra Nawaz, "Face Recognition using Adaptive Neural Network", International Journal of Computer & Communication Engineering (IJCCER), 2013.
7. **Sajjad Ahmed Ghauri**, HannanAdeel, Bilal Irshad , Agha Saif, " Performance of Quasi Orthogonal Space Time Codes on Rayleigh and Rician Fading Channel" International Journal of Computer & Electronics Research (IJCER), 2013.
8. **Sajjad Ahmed Ghauri**, HannanAdeel, Muhammad Safi-ur-Rehman Butt, Muhammad Arslan, "Adaptive Decision Feedback Equalizer (ADFE)", International Journal of Computer & Electronics Research (IJCER), 2013.
9. **Sajjad Ahmed Ghauri**, FarhanAsim, ImtiazRasool, KhurramIrshad, HannanAdeel "Beamforming using Adaptive Algorithms with Uniform Linear Array (ULA)" International Journal for Infonomics (IJI), Special Issue, Volume 1, Issues 1, 2013.

10. **Sajjad Ahmed Ghauri**, SherazAlam, M. FarhanSohail, Asad Ali, FaizanSaleem, "Implementation of OFDM and Channel Estimation using LS and MMSE Estimators", International Journal of Computer & Electronics Research (IJCER), Volume 2, Issue 1, February 2013, pp 48-53.

## CONFERENCE

1. **Sajjad Ahmed Ghauri**, I M Qureshi "Automatic Classification of Digital Modulated Signals using Linear Discriminant Analysis on AWGN Channel" 1st International Conference on Information and Communication Technology Trends (ICICTT), 2-5 September, 2013.
2. **Sajjad Ahmed Ghauri**, HannanAdeel, Hira Sajjad, Tayyab Usman "Performance of Reed Solomon (RS) Codes on Fading Channels" 1st International Conference on Information and Communication Technology Trends (ICICTT), 2-5 September, 2013.
3. **Sajjad Ahmed Ghauri**, Hassan Humayun, Hira Sajjad, " Comparison of different Population Strategies for Multiuser Detection using Genetic Algorithm" World Congress on Internet Security (WorldCIS), 2013.
4. **Sajjad Ahmed Ghauri**, FarhanSohail, "System Identification using LMS, NLMS and RLS" IEEE Student Conference on Research & Development (SCORED), 2013.
5. HannanAdeel, **Sajjad Ahmed Ghauri** "Performance Analysis of Regression Based (RB) Methods for Image Classification" 1st International Conference on Information and Communication Technology Trends (ICICTT), 2-5 September, 2013.

## 2012

## JOURNAL

1. **Sajjad Ahmed Ghauri**, FarhanSohail, SherazAlam Khan, Farrukh Tahir, Anum Tariq, Maria Tariq "Channel Shortening for doubly selective channels using TEQ, MMSE and LMS" International Journal of Computer & Electronics Research (IJCER), Volume 1 & Issue 4 , December 2012.

## CONFERENCE

1. **Sajjad Ahmed Ghauri**, M. Raza Parvez, M. SajidJaved, Bilal Ahmed "Channel Estimation using Continuous Particle Swarm Optimization" IEEE conference of Information Society UK, 2012.
2. **Sajjad Ahmed Ghauri**, M. SajidJaved, M. Raza Parvez , Bilal Ahmed "Performance of Space Time Codes on Fading Channel" IEEE conference of Information Society UK, 2012.
3. **Sajjad Ahmed Ghauri**, M. EhsanulHaq, FarhanSohail, Bilal Ahmad "Performance of Space Time Trellis Code on Fading Channel" 8<sup>th</sup> IEEE conference on Wireless & Mobile computing, Networking & communication, Spain, 2012.
4. **Sajjad Ahmed Ghauri**, Hassan Humayun, M. EhsanulHaq, FarhanSohail "Implementation of Convolutional codes on FPGA", IEEE International Conference for Internet Technology And Secured Transactions, Dec, 2012, pp 175-178.

**2011**

**JOURNAL**

1. **Sajjad Ahmed Ghauri**, M SajidJavaid, HannanAdeel, I.M. Qureshi “Performance Comparison of Serial Concatenated Convolutional Codes and Parallel Concatenated Convolutional Codes on Faded Channels” International Journal Multimedia and Image Processing (IJMIP), Volume 1, Issues 3/4, September/December 2011, pp 104-109.

**CONFERENCE**

1. **Sajjad Ahmed Ghauri**, M. SajidJaved, HannanAdeel, Hassan Humayun “Performance of SCCC on Faded Channel” IEEE conference of Information Society UK, 2011.
2. Muhammad Atta Rehman, **Sajjad Ahmed Ghauri**, HannanAdeel, “Performance of Modified Iterative Decoding Algorithm for Product Codes” IEEE CASoN Spain, 2011 pp.147-151.
3. Abdul Qayum, HannanAdeel, **Sajjad Ahmed Ghauri** “Autonomous Navigated GPS Based Surveillance UAV” International symposium on Computer Society, NAMAL, 2011.

**2010**

**JOURNAL**

1. **Sajjad Ahmed Ghauri**, HannanAdeel “Performance of PCCC on Fading channels” NUML journal of Management and Technology, 2010.

**f. MEMBER OF ORGANIZATION**

PEC: TELE/1225