

DR. ENGR. SAJJAD AHMED GHURI

HEC Approved Supervisor

PEC REG No: TELE/1225



MAILING INFORMATION

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PERSONAL INFORMATION

Father's Name: Manzoor Ahmed Ghauri
NIC #: 37405-2450542-5
NTN#: 4234662-2
Marital Status: Married
Sex: Male
Religion: Islam
Nationality: Pakistani
D.O.B: 2nd Nov, 1984

SUMMARY

- ✓ Ph.D EE (COMMUNICATION)
- ✓ +10 years lecturing experience
- ✓ Secretary Annual Conference ICISE, IIUI
- ✓ External Examiner, IQRA University, Islamabad
- ✓ External Examiner, FUUAST, Islamabad
- ✓ Internal Examiner, AIOU, Islamabad

EXPERIENCE

Assistant Professor	International Islamic University	Islamabad, Pakistan
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April 2014 to Date

Taught Courses:

Circuit Analysis, Differential Equations & its Applications, Calculus-I, Control Systems, Complex Analysis, Digital Signal Processing, Heuristic Computation Techniques (Phd/MS).

Tasks Performed:

- a. Focal Person for Building Committee, IIUI.
- b. Secretary for Annual Conference, IIUI.
- c. Convener RaCs Research Group, IIUI.
- d. Coordinator & Committee Member of Annual Open House, FET, IIUI.
- e. Technical Committee Member of International conference on ICISE.
- f. Member of Admissions and Exam committee, FET, IIUI.
- g. Reviewer for Annual Conference, IIUI.

Assistant Professor	National University of Modern Languages	Islamabad, Pakistan
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September 2009 to April 2014

Taught Courses:

Differential Equations & its Applications, Calculus-I, Control Systems, Complex Analysis, Digital Signal Processing, Electronics-I

Tasks Performed:

- a. Focal Person Industrial liaison and Internship Cell, DEE, NUML.
- b. Project Supervisor & Project Coordinator, DEE, NUML.
- c. Technical Committee Member FYP, NUML.
- d. Organize industry's hiring test for Telecom students.

Visiting Lecturer/ Adjunct Faculty Member	International Islamic University, Islamabad SEAS, ISRA University, Islamabad Campus Iqra University, Islamabad Campus COMWAVE Institute, Islamabad Campus	February 2013- August 2013 September 2011-September 2014 September 2009-September 2010 August 2009- August2010
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Taught Courses:

Communication System, Differential Equations & its Applications, Calculus-I, Control Systems, Complex Probability & Random Variables, Electronics-I

Lecturer/Program Coordinator	Institute of Engineering and Technology	Rawalpindi, Pakistan
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January 2007 to September 2009

Tasks Performed:

- To coordinate the B.E (Telecomm) Programme
- In charge Exam Cell
- Internship & Industrial tour Coordinator

Network Optimization Engineer	China HT Comm	Islamabad, Pakistan
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Responsibilities

- Derive Test using TEMS software.
- GPRS Test using TEMS software.
- Report Writing

QUALIFICATION

Year	University/Board	Degree	Division/Grade/CGPA
2015	ISRA University, Islamabad Campus	Ph.D (Electronic Engg)	CGPA(3.83/4.0)
2010	International Islamic University, Islamabad	MS (Electronic Engg)	CGPA(3.85/4.0)
2007	Institute of Engineering & Technology, AIOU	B.E (Telecomm)	% age (82%)
2002	BISE(Rawalpindi)	HSCC	(1 st Div)
2000	BISE(Rawalpindi)	SCC	(1 st Div)

AREAS OF INTEREST

- ✓ Digital Signal Processing & Communication Systems
- ✓ Evolutionary Computing Techniques
- ✓ Neural Networks & Fuzzy Logic
- ✓ Wireless Communication, Analog and Digital Communication

PROJECTS

- ✓ PhD EE Topic:
 - Automatic Modulation Classification using Feature based Approach
- ✓ MS EE Topic:
 - Performance Evaluation of Parallel Concatenated Convolutional Codes (TURBO CODES) on Fading Channels

GRADUATE LEVEL RESEARCH PROJECTS

Supervisor/Co-Supervisor

1. MSEE

- Automatic Modulation Classification using Genetic Programming. [Completed]

- Modulation Recognition in Cognitive Radio Networks. [In-Progress]
- Classification of Digital Modulation Schemes on Fading Channels [In-Progress]

2. BSEE

- Above (30) projects have been supervised in the field of Electrical Engineering at undergraduate level in different universities.

RESEARCH PUBLICATIONS

Journals

1. Sajjad Ahmed Ghauri, Qureshi I.M., Malik, A.N., Cheema, T.A., "A Novel Modulation Classification Approach Using Gabor Filter Network", The Scientific World Journal (TSWJ), pp. 1-14, 2014. **[I.F. 1.732]**
2. Sajjad Ahmed Ghauri, Qureshi, I.M., "M-PAM Signals Classification using Modified Gabor Filter Network", Mathematical Problems in Engineering, 2015. **[I.F. 1.082]**
3. Khurram Hameed, Sajjad Ahmed Ghauri and M. Salman Qamar, "Biological Inspired Stochastic Optimization Technique (PSO) for DOA and amplitude estimation of Antenna Arrays Signal Processing in RADAR communication system", Journal of Sensors, 2015. **[I.F. 1.182]**
4. Sajjad Ahmed Ghauri, Qureshi, I.M., Basir, S., Din, H., "Modulation Classification using Spectral Features on Fading Channels", Science International, Vol. 27(1), pp.147-153, 2014. **[HEC X Category]**
5. Sajjad Ahmed Ghauri, Qureshi I.M., Aziz, A., Cheema, T.A., "Classification of Digital Modulated Signals using Linear Discriminant Analysis on Faded Channel", World Applied Sciences Journal, Vol. 29(10), pp. 1220-1227, 2014. **[HEC X Category]**
6. Sajjad Ahmed Ghauri, Qureshi, I.M., Shah, I., Khan, N., "Modulation Classification using Cyclo-stationary Features on Fading Channels", Research Journal of Applied Sciences Engineering & Technology (RJASET), Vol. 7(24), pp-5331-5339, 2014. **[HEC X Category]**
7. Sajjad Ahmed Ghauri, Qureshi I.M., Malik, A.N., Cheema, T.A., "Automatic Digital Modulation Classification Technique using Higher Order Cummulants on Faded Channels", J. Basic. Appl. Sci. Res., Vol. 4(3), pp. 1-12, 2014. **[HEC X Category]**
8. Sajjad Ahmed Ghauri, Qureshi I.M., Malik, A.N., Cheema, T.A., "Higher Order Cummulants based Digital Modulation Classification Scheme", Research Journal of Applied Sciences Engineering & Technology (RJASET), Vol. 6(20), pp.3910-3915, 2013. **[HEC X Category]**
9. A.Hussain, S.A.Ghauri, M.F.Sohail, S.A.Khan, I.M.Qureshi, "KNN based Classification of Digital Modulated Signals", Accepted to Publish in IIUM Engineering Journal, 2016. **[HEC X Category]**
10. Sajjad Ahmed Ghauri, Ijaz Mansoor Qureshi, Sumrin Mehak Kabir, Asra Ashraf, Asma Naeem "Priority based Bandwidth Allocation in Cognitive Radio Network using Cooperative Game Theory", International Journal of Technology and Research, (IJTNR), 2013. **[HEC Y Category]**
11. Sajjad Ahmed Ghauri, Iftikhar, S., Sajid, N., Afzal, M., Habib, U., "Performance of Space Time Turbo Trellis Codes on Rayleigh and Rician Fading Channels" International Journal of Technology and Research (IJTNR), Vol. 2(2), 2014. **[HEC Y Category]**
12. Sajjad Ahmed Ghauri, Arshad, B., Saif, A., Qureshi, I. M., "Performance of Space Time Codes and Quasai Orthogonal STC on Fading Channel" International Journal for Infonomics (IJI), Special Issue, Vol. 1(1), 2013.
13. Sajjad Ahmad Ghauri, Qureshi, I.M., Sohail, M.F., Alam, S., Ashraf, M.A., "Spectrum Sensing for Cognitive Radio Network over Fading Channel", International Journal of Computer & Electronics Research (IJCER), Vol. 2(1), pp. 31-34 2013. **[HEC Y Category]**

14. Sajjad Ahmed Ghauri, Alam, S., Sohail, F., Hussain. A., "Adaptive Filter Algorithms for Noise & Echo Cancellation", International Journal of Computer & Communication Engineering (IJCCER), 2013. **[HEC Y Category]**
15. Sajjad Ahmed Ghauri, Adeel, H., Abbas, S.S., Mir, A., Nawaz, I., "Face Classification using Adaptive Neural Network", International Journal of Computer & Communication Engineering (IJCCER), 2013. **[HEC Y Category]**
16. Sajjad Ahmed Ghauri, Adeel, H., Irshad, B., Saif, A., "Performance of Quasi Orthogonal Space Time Codes on Rayleigh and Rician Fading Channel", International Journal of Computer & Electronics Research (IJCER), 2013. **[HEC Y Category]**
17. Sajjad Ahmed Ghauri, Asim, F., Rasool, I., Irshad, K., Adeel, H., "Beamforming using Adaptive Algorithms with Uniform Linear Array (ULA)", International Journal for Infonomics (IJI), Special Issue, Vol. 1(1), 2013.
18. Sajjad Ahmed Ghauri, Adeel, H., Butt, M.S., Arsalan, M., "Adaptive Decision Feedback Equalizer (ADFE)", International Journal of Computer & Electronics Research (IJCER), 2013. **[HEC Y Category]**
19. Sajjad Ahmed Ghauri, Alam, S., Sohail, F., Ali. A., Saleem, F., "Implementation of OFDM and Channel Estimation using LS and MMSE Estimators", International Journal of Computer & Electronics Research (IJCER), Vol. 2(1), pp. 48-53, 2013. **[HEC Y Category]**
20. Sajjad Ahmed Ghauri, Sohail, F., Khan, S.A., Tahir, F., Tariq, A., Tariq, M., "Channel Shortening for doubly selective channels using TEQ, MMSE and LMS", International Journal of Computer & Electronics Research (IJCER), Vol. 1(4) , December 2012. **[HEC Y Category]**
21. Sajjad Ahmed Ghauri, Javed, M.S., Adeel, H., Qureshi, I.M., "Performance Comparison of Serial Concatenated Convolutional Codes and Parallel Concatenated Convolutional Codes on Faded Channels", International Journal Multimedia and Image Processing (IJMIP), Vol. 1(3/4), pp. 104-109, 2011.
22. Sajjad Ahmed Ghauri, Hannan Adeel "Performance of PCCC on Fading channels" NUML journal of Management and Technology, 2010.
23. Sheraz Alam, M.F Sohail, Asad Hussain, Sajjad A. Ghauri, Channel estimation using evolutionary computing techniques, International Journal of technology & research, 2016. **[HEC Y Category]**
24. Sadia Younis, Ayman Arshad Subzwari, Nabeela Ahmad, Unqa Arif, S.A.Ghauri "LDMS Based Novel Technique for Football Sphericity Measurement, International Journal of Computer & Electronics Research (IJCER), 2016. **[HEC Y Category]**

Conferences

1. Sajjad Ahmed Ghauri, Qureshi, I.M., "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, Haq, M.E., Iqbal, M., Rehman, J., "Performance Analysis of LDPC Codes on Different Channels", 8th International Conference on Next Generation Mobile Apps, Services and Technologies, UK, 2014. **[IEEE]**
3. Sajjad Ahmed Ghauri, Adeel, H., Sajjad, H., Usman, T., "Performance of Reed Solomon (RS) Codes on Fading Channels", 1st International Conference on Information and Communication Technology Trends (ICICTT), 2-5 September, 2013.
4. Sajjad Ahmed Ghauri, Humayun, H., Sajjad, H., " Comparison of different Population Strategies for Multiuser Detection using Genetic Algorithm", World Congress on Internet Security (WorldCIS), 2013. **[IEEE]**

5. Sajjad Ahmed Ghauri, Sohail, F., “System Identification using LMS, NLMS and RLS”, IEEE Student Conference on Research & Development (SCORED), 2013. [IEEE]
6. Sajjad Ahmed Ghauri, Parvez, M.R., Javed, M.S., Ahmed, B., “Channel Estimation using Continuous Particle Swarm Optimization”, IEEE conference of Information Society, UK, 2012. [IEEE]
7. Sajjad Ahmed Ghauri, Parvez, M.R., Javed, M.S., Ahmed, B., “Performance of Space Time Codes on Fading Channel”, IEEE conference of Information Society, UK, 2012. [IEEE]
8. Sajjad Ahmed Ghauri, Haq, M.E., Sohail, F, Ahmad, B., “Performance of Space Time Trellis Code on Fading Channel”, 8th IEEE conference on Wireless & Mobile computing, Networking & communication, Spain, 2012. [IEEE]
9. Sajjad Ahmed Ghauri, Humayun, H., Haq, M. E., Sohail, F, “Implementation of Convolutional codes on FPGA”, IEEE International Conference for Internet Technology And Secured Transactions, pp. 175-178, 2012. [IEEE]
10. Sajjad Ahmed Ghauri, Javed, M.S., Adeel, H., Humayun, H., “Performance of SCCC on Faded Channel” IEEE conference of Information Society, UK, 2011. [IEEE]
11. Muhammad Atta Rehman, Sajjad Ahmed Ghauri, Hannan Adeel, “Performance of Modified Iterative Decoding Algorithm for Product Codes” IEEE CASoN Spain, 2011 pp.147-151. [IEEE]
12. Abdul Qayum, Hannan Adeel, Sajjad Ahmed Ghauri “Autonomous Navigated GPS Based Surveillance UAV” International symposium on Computer Society, NAMAL, 2011.
13. Hannan Adeel, 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.
14. Sajjad Ahmed Ghauri, Hassan Hamayun, M. Ehsan ul Haq, “Low Complexity Linear Equalization of Doubly Selective Channel”, UK, 2015. [IEEE]

REFERENCES

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