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Address:

Hostel 5, GIK Institute of Engineering Sciences and Technology, Topi, 23460 Pakistan.

Vill: Barhampatti Post
Office: Fatehpur Tehsil:
Khwaza Khela District
Swat, KPK, 19130 Pakistan.

ARIF ULLAH KHAN

BE., ME., Ph.D.,

EDUCATION

Ph.D. in Electronics Engineering (2017 - till now)

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, Pakistan.

Study Emphasis: Wireless Communication and Networking.

PhD Thesis Topic/Title: Performance Analysis of Efficient Small Cells Deployment in Next Generation Cellular Network.

Supervisor: [Dr. Ziaul Haq Abbas](#)

Master of Science in Electrical Engineering (2014 - 2016)

COMSATS University, Abbotabad, Pakistan.

Study Emphasis: Wireless Communication and Signal Processing.

MS Thesis Topic/Title: Precise Estimation of Soft output for Sphere Decoding in MIMO OFDM System.

Supervisor: [Prof. Dr. Shahid Khattak](#)

Bachelor of Science in Electronics Engineering (2008 - 2012)

Balochistan University of Information Technology, Engineering and Management Sciences, Quetta, Pakistan.

Study Emphasis: Electronics and Communication.

BS Thesis Topic/Title: Real time Tracking, Monitoring and Controlling of Vehicles through GPS and GSM.

RESEARCH INTEREST

- Stochastic Geometry based Modelling of 5G and B5G Cellular Networks
- Heterogeneous Cellular Networks
- Millimeter wave communications
- D2D Communications
- UAVs Assisted Communication
- Machine Learning in Communication

PROFESSIONAL/TEACHING EXPERIENCE

Graduate Assistant/Lab Instructor (2017 - 2020)

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, Pakistan.

Responsibilities:

- Assisted as Teaching Assistant (TA) in Linear Circuit Analysis (EE-211) course (Fall 2017).
- Assisted as lab instructor in Electronics Devices and Circuit Lab (EE-231L) (Spring 2018-2019).
- Assisted as lab instructor in Signal and System Lab (EE-351L) (Fall 2018-2019).

Lecturer (2015 - 2016)

COMWAVE Institute of Information Technology, Abbotabad, Pakistan.

Responsibilities:

- Teaching and Departmental Responsibilities.

Engineer Trainee (2013 - 2014)

Egyptian-Pakistani Telecommunication Company Limited.

Responsibilities:

- Deal with issues related to operation and maintenance of mobile network.

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RESEARCH AND PUBLICATION

Journals (Cumulative IF = 14.298)

- J1 Ziaul Haq Abbas, Arif Ullah, Ghulam Abbas, Fazal Muhammad, Frank Yong Li, "Outage Probability Analysis of User-Centric SBS based HCNets Under Hybrid Rician/Rayleigh Fading," In *IEEE Communication Letters.*, pp. 1–1, Dec, 2019. DOI: [10.1109/LCOMM.2019.2959578](https://doi.org/10.1109/LCOMM.2019.2959578) (IF. 3.419)
- J2 Arif Ullah, Ziaul Haq Abbas, Ghulam Abbas, Fazal Muhammad, Lei Jiao, "Performance Analysis of User-Centric SBS Deployment with Load Balancing in Heterogeneous Cellular Networks: A Thomas Cluster Process Approach," *Computer Networks*, vol. 170, pp. 107120, 2020. DOI: [10.1016/j.comnet.2020.107120](https://doi.org/10.1016/j.comnet.2020.107120) (IF. 3.11)
- J3 Arif Ullah, Ziaul Haq Abbas, Ghulam Abbas, Fazal Muhammad, Lei Jiao, "Capacity Driven SBS Deployment in Heterogeneous Cellular Networks: Outage probability and Rate coverage Analysis," In *Transaction on Emerging Telecommunications Technologies*, 2019. DOI: [10.1002/ett.3876](https://doi.org/10.1002/ett.3876) (IF. 1.594)
- J4 Arif Ullah, Ziaul Haq Abbas, Fazal Muhammad, Irfanullah, Alam Zeb, Shahid Khat-tak, "Likelihood Ascent Search Aided Sphere Decoding Receiver for M-QAM based MIMO System," *Under review in IET Communication.* (IF. 1.664)
- J5 Hammad Ahmad, Muhammad Mahmood Ali, Arif Ullah, Arbab Abdur Rahim, Hus-nul Maab, Mahmood Khan, "An Ultra-Thin Beam Splitter Design Using a-Si:H Based on Phase Gradient Metasurfaces," *Journal of Nanoelectronics and Optoelec-tronics*, vol. 14, pp. 1339-1343(5), September 2019. DOI: [10.1166/jno.2019.2614](https://doi.org/10.1166/jno.2019.2614) (IF. 0.771)
- J6 Arif Ullah, Ziaul Haq Abbas, Fazal Muhammad, Ghulam Abbas, Sunghwan Kim, "Uplink Performance Analysis of User-centric Small Cell Aided Dense HCNets with Uplink/Downlink Decoupling," *Accepted in IEEE Access.* DOI: [10.1109/ACCESS.2020.3015915](https://doi.org/10.1109/ACCESS.2020.3015915) (IF. 3.74)

Conferences

- C1 Arif Ullah, Ziaul Haq Abbas, Ghulam Abbas, Fazal Muhammad, "Analysis of Out-age Probability and Rate Coverage in Heterogeneous Cellular Networks with joint uniform and clustered users," *2nd IEEE International Multi topic Conference (IN-MIC)*, Islamabad, Pakistan 29-30 January 2019. DOI: [10.1109/INMIC48123.2019.9022767](https://doi.org/10.1109/INMIC48123.2019.9022767)

SPECIAL TRAINING/CERTIFICATION/LANGUAGE PROFICIENCY

Seminars

- Attended seminar on "Writing Good Research Paper".

Language Proficiency

- English (IELTS (to be appeared soon))
- Urdu
- Pashtu

MEMBERSHIPS/FELLOWSHIPS/AWARDS

Membership, Pakistan Engineering Council

Registered Engineer with Pakistan Engineering Council, Reg #: ELECTRO/16479

Membership, Institute of Electrical and Electronics Engineers

Graduate student member Institute of Electrical and Electronics Engineers (IEEE), Mem-ber-ship number: 95038221

Postgraduate Scholarship, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology

Awarded fully funded Scholarship with monthly stipend during PhD studies

Prime Minister Scholarship, COMSATS University, Abbotabad

Awarded with PM full fee reimbursement scholarship during master studies

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SKILLS RELEVANT TO RESEARCH

- LaTeX, Microsoft Office, Power point and Excel, for Typesetting and Documents Preparation
- MATLAB for Simulation, Data Analysis and Visualisation
- C/C++ and Assembly Language for Programming
- Simulink, Advance Design System (ADS), High Frequency Structured Simulation (HFSS) and CST Microwave Studio for Microwave Application
- Pspice, Electronic Workbench and Ansys Workbench for circuit designing
- Mathematica for Numerical Analysis

REFERENCES

Dr. Ziaul Haq Abbas

Associate Professor, Faculty of Electrical Engineering, GIK Institute of Engineering Sciences and Technology, Topi, 23640 Pakistan.

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Phone: +92 (938) 281026 Ext: 2275

Prof. Dr. Shahid Khattak

Professor and Chairman, Department of Electrical Engineering, COMSATS University, Abbotabad, 23640 Pakistan.

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Phone:

Dr. Ghulam Abbas

Associate Professor, Faculty of Computer Sciences and Engineering, GIK Institute of Engineering Sciences and Technology, Topi, 23640 Pakistan.

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