

## Personal information

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Email(s) [faheem.khuhawar@faculty.muuet.edu.pk](mailto:faheem.khuhawar@faculty.muuet.edu.pk)  
Nationality(-ies) Pakistani  
Date of birth July 3, 1983  
Gender Male

## Employment History

2015 – present Assistant Professor (BPS-19) at [Mehran UET, Jamshoro](#)  
Teaching and Research

2009 – 2015 Instrumentation Engineer (BPS-18) at [University of Sindh, Jamshoro](#)  
Maintenance, Operation and Troubleshooting of HiTech Instruments

2007 – 2009 Electronic Engineer (BPS-17) at [Shah Abdul Latif University, Khairpur](#)  
Maintenance, Operation and Troubleshooting of HiTech Instruments

2006 – 2007 Research Associate at [University of Sindh, Jamshoro](#)  
Teaching and research

## Education

2010 – 2014 Ph.D. in Electronics and Communications Engineering from [Politecnico di torino, Italy](#)

- Experiments to test the performance of TCP/IP protocol over Linux and Windows and identify possible throughput bottlenecks due to the configuration of the TCP/IP protocol stack.
- Worked over the topic “Predicting ADSL lines Data Rate using Neural Networks”, the study focuses on obtaining optimal stable ADSL data rate using Neural Network to work as predictor. Thus giving opportunity to ADSL users and service providers to know about the available stable bandwidth.
- The growing concern of energy efficient networks and recent success of VoIP technology in making cheap long distance calls using IP network has raised an interesting question, can we migrate from PSTN to VoIP technology or how much energy efficient are these two architectures? The contribution has been made to answer such questions using mathematical modeling to estimate overall power consumption with possible ways to save energy.
- Worked over the mathematical modeling of rate adaptation scheme and its interaction with TCP’s congestion control mechanism.

2006 – 2008 Master of Engineering in Telecommunication and Control from Mehran University of Engineering and Technology ([MUET](#))  
Thesis Title: “Blind Channel Equalization using Elman Network”

2002 – 2006 Bachelor of Engineering in Electronics from Mehran University of Engineering and Technology ([MUET](#))

**Personal skills and competences**

- Simulators: Mathworks MATLAB and Simulink, Octave, OMNeT++, OPNET, Boson's NetSim, RouterSim's Network Visualizer, SemSim's Router Simulators, NI's Multisim and LabVIEW, Autodesk's AutoCAD
- Development: C/C++, R, Javascript, Apache, PHP, MySQL, HTML, CSS, LaTeX
- Operating Systems: Linux (Debian/Ubuntu/RedHat) Distributions, Mac OSX, Cisco IOS, Windows
- Configure, manage and troubleshoot cisco catalyst switches, routers

Mother tongue(s)  
Other language(s)  
Self-assessment  
European level<sup>(\*)</sup>

**Sindhi**

**English**  
**Italian**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A1	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

**Additional information**

**Annexes**

1 List of publications

**References**

Available on request

# Attachment 1: List of publications

## Publications

- [1] A. Kumar, F. Khuhawar, N. Zaki, S. Ali, B. Khalid, and A. Shah, "Estimating the best performance option for content delivery networks," *Sindh University Research Journal (Science Series)*, vol. 49, pp. 243–247, March 2017.
- [2] I. A. Qureshi, S. Ali, and F. Khuhawar, "Performance analysis of linear precoders in tdd massive mimo systems," *Sindh University Research Journal (Science Series)*, vol. 49, pp. 445–452, June 2017.
- [3] S. Abbasi, I. A. Ismaili, and F. Y. Khuhawar, "An effective channel allocation scheme to reduce co-channel and adjacent channel interference for wmn backhaul," *Mehran University Research Journal of Engineering and Technology*, vol. 35, no. 4, pp. 577–584, 2016.
- [4] S. Abbasi, F. Y. Khuhawar, K. ur-rehman Khumbhati, and Q. Khuhawar, "Telecom regulation: Impact of bio-metric sim verification on telecom economy and user growth in pakistan," *Science International (Sci.Int.), Lahore*, vol. 28, pp. 4153–4156, July-August 2016. Special Issue.
- [5] Z. Dayo, F. Abro, F. Khuhawar, and F. K. Shaikh, "Design and development of hardware to interconnect heterogeneous wireless networks," *Sindh University Research Journal (Science Series)*, vol. 48, pp. 689–693, September 2016.
- [6] Q. Khuhawar, S. Abbasi, and F. Khuhawar, "Analysis of multimedia applications in wimax femtocells," *Sindh University Research Journal (Science Series)*, vol. 48, pp. 429–434, June 2016.
- [7] S. Abbasi, I. A. Ismaili, S. A. Memon, and F. Khuhawar, "Performance analysis of wmn backhaul as a suitable alternate of wired backhaul," *Sindh University Research Journal (Science Series)*, vol. 47, pp. 131–136, March 2015.
- [8] S. Abbasi, S. Shah, F. Khuhawar, R. Shah, and N. Memon, "Optimum cell sectorization for capacity enhancement," *Sindh University Research Journal (Science Series)*, vol. 47, pp. 623–628, September 2015.
- [9] N. Mahoto, A. Shaikh, F. Khuhawar, and A. Aftab, "Factors affecting software quality in legacy software life cycle models for emerging professionals," *Sindh University Research Journal (Science Series)*, vol. 47, no. 2, pp. 313–319, 2015.
- [10] M. Memon, N. A. Mahoto, F. Y. Khuhawar, and J. Tanaka, "Retrieval of life logs based on users context," *Sindh University Research Journal (Science Series)*, vol. 47, pp. 851–860, December 2015.
- [11] A. Shaikh, N. Mahoto, F. Khuhawar, and M. Memon, "Performance evaluation of classification methods for heart disease dataset," *Sindh University Research Journal (Science Series)*, vol. 47, pp. 389–394, September 2015.
- [12] F. Y. Khuhawar, M. A. Unar, N. A. Mahoto, and S. A., "Blind channel equalization using elman network," *Sindh University Research Journal (Science Series)*, vol. 46, pp. 335–344, September 2014.
- [13] N. A. Mahoto, A. Shaikh, and F. Khuhawar, "Clita: Discovering knowledge from clinical data," *Sindh University Research Journal (Science Series)*, vol. 46, pp. 539–546, December 2014.
- [14] F. Khuhawar, M. Mellia, and M. Meo, "Modeling the interaction between tcp and rate adaptation at links," in *25th International Teletraffic Congress (ITC)*, pp. 1–8, 2013.
- [15] F. Bota, F. Khuhawar, M. Mellia, and M. Meo, "Comparison of energy efficiency in pstn and voip systems," in *Third International Conference on Future Energy Systems: Where Energy, Computing and Communication Meet (e-Energy)*, pp. 1–4, 2012.
- [16] F. Bota, F. Khuhawar, M. Mellia, and M. Munafo, "Predicting adsl lines data rate using neural network," in *IEEE Global Telecommunications Conference (GLOBECOM 2011)*, pp. 1–5, 2011.