

## Personal information

Surname(s) / First name(s) **Khuhawar, Faheem Yar**  
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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](#))  
Thesis Title: “Wireless Local Loop: An Implementation of CDMA2000”

## Trainings

January, 2018

Indus University - Training/Workshop on "One Day CPD Workshop on OBE Software Hands-on Practice"

December, 2017

PEC - Training/Workshop on "Capacity Building Workshop on Developing SAR as per PEC Accreditation Manual 2014 for OBE&A Implementation"

July, 2017

HEC - Huawei Authorized Information and Network Academy (HAINA) "Train the Trainer Training"

March, 2017

IDEAL Autonetics - Training/Workshop on "Cloud Client Computing and Virtualization"

## Certifications

19/12/2017

Huawei Certified Academy Instructor (HCAI) - Certificate ID: 021100103623806862811409

23/10/2017

Huawei Certified Network Associate (HCNA H12-211) - Certificate ID: 010100101623806854971413

## Memberships

IEEE Communications Society Member - 91222845

Pakistan Engineering Council (PEC) - ELECTRO/23620

## Personal skills and competences

Simulators:

Mathworks MATLAB and Simulink, Octave, OMNeT++, OPNET, Boson's NetSim, RouterSim's Network Visualizer, SemSim's Router Simulators, Cisco Packet Tracer, Huawei eNSP, NI's Multisim and LabVIEW, Autodesk's AutoCAD

Development:

C/C++, PHP, MySQL, Apache, HTML, CSS, Javascript, R, LaTeX

Operating Systems:

Cisco IOS, Huawei VRP, Linux, Mac OSX, Windows

## Languages

Mother tongue(s)

**Sindhi**

Other language(s)

*Self-assessment*

*European level<sup>(\*)</sup>*

**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] U. E. H. Alvi, F. Khuhawar, and B. Ashfaq, "Green campus: Measurements and modeling," in *IEEE 20th International Multitopic Conference (INMIC'17)*, pp. 1–6, Nov 2017.
- [2] 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.
- [3] 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.
- [4] 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.
- [5] 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.
- [6] 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.
- [7] 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.
- [8] 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.
- [9] 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.
- [10] 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.
- [11] 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.
- [12] 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.
- [13] 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.
- [14] 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.
- [15] 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.
- [16] 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.
- [17] 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.