

MUHAMMAD USMAN

Research Associate

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Beihang (BUAA) University, Beijing, China.

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Objective

To obtain the practical and logical approach in order to implement the latest research to groom myself as professional engineer in Telecommunication & IT-oriented research and development organization.

Education

PhD Computer Science & Technology

Sep-2021 – Continue

www.buaa.edu.cn

Beihang University, (BUAA), Beijing P.R. China.



Research: Data-Driven Intelligence in IoT

Supervisor: Prof. Juhua Pu

MS Information & Communication Engineering

Sep. 2012 - Mar. 2015

www.sjtu.edu.cn

Shanghai Jiao Tong University, Shanghai, P.R. China.



(QS World University Ranking; 60, Computer Science: 38)

www.topuniversities.com/universities/shanghai-jiao-tong-university

Thesis Title: Energy Harvesting in Multi-Relay based Wireless Networks

Advisor: Prof. Bin Xia, Prof. Wang Xinbing



BS (Hon's) Information Technology

Sep. 2006 - Dec. 2010

www.bzu.edu.pk

Bahauddin Zakariya University, Pakistan.

Major : Computer Networks

Honors & Award

1. Beihang University, China, PhD Scholarship Award, 2021.
2. Taiwan International Graduate Program (TIGP), SNHCC Award, 2021
3. Chalmers University of Technology, Sweden, Research and Travel Grant Award, 2016
4. Universidade Estadual de Campinas, Brazil Scholarship Award 2016
5. Shanghai Jiao Tong University, China. MS Scholarship, Excellent International Student Award 2012

Experience

Lecturer IT (BPS-18) March 2018- Continue

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Incharge Examination, Dept. of Information Technology,
Bahauddin Zakaiya University, Multan, Pakistan.



Data Processing Officer (BPS-17) Aug.2017- Mar 2018

www.pshealth.punjab.gov.pk

Drug Testing Dept. Primary & Secondary HealthCare,
Govt. of Punjab, Pakistan



Lecturer Computer science

May.2015-Mar.2017

www.uog.edu.pk

Dept. of Computer Science

University of Gujrat, Pakistan.



Research Assistant

Sep. 2012 - Mar. 2015

www.sjtu.edu.cn

SEIEE, Dept. of Computer Science

Shanghai Jiao Tong University, P.R. China.



Publications

1. **M. Usman, J. Pu, A. U. Rehman, M. K. Afzal, M. Arshad, and Y. Muhammad, SEEVMC: A secure, energy efficient virtual machine consolation approach for QoS in cloud data centers**, ETRI Journal (2025), 1-19, DOI 10.4218/etrij.2024-0386. <https://doi.org/10.4218/etrij.2024-0386>
2. **Usman, M., Pu, J., Rehman, A.U., Lu, S. (2025). 5G and D2D Network for Smart Cities Using Internet of Thing Services**. In: Yan, L., Duan, H., Deng, Y. (eds) Advances in Guidance, Navigation and Control. ICGNC 2024. Lecture Notes in Electrical Engineering, vol 1354. Springer, Singapore. https://doi.org/10.1007/978-981-96-2268-9_27
3. **M. Arshad, J. Liu, M. Usman and W. Khalid, "A Secure and Distributed Decision Based Handover Scheme for Low Earth Orbit Satellites in 6G Internet,"** 2024 21st International Bhurban Conference on Applied Sciences and Technology (IBCAST), Murree, Pakistan, 2024, pp. 281-287, <https://doi.org/10.1109/IBCAST61650.2024.10876920>
4. **Muhammad Usman and Zeeshan Samad, "Relay Selection in Wireless Information and Power Transfer Multi-Relay Networks with Energy Causality",** International Symposium of Computer Application and Information Technology, January, 2015, Shenzhen, China. https://www.aconf.cn/conf_51651/abstract/308.html
5. **Zeeshan Samad and Muhammad Usman, "Capacity Analysis of Spatially Correlated MIMO Channels with Transmit Hardware Imperfections",** International Symposium of Computer Application and Information Technology, January, 2015, Shenzhen, China. https://www.aconf.cn/conf_51651/abstract/291.html

Reviewer Services

1. [IEEE Transactions on Consumer Electronics](#)
2. [Cybersecurity](#) Springer Publisher
3. [IEEE Access](#)
4. [Computers, Materials & Continua](#)

Technical skills

Data Science	Python, NumPy, Pandas, Seaborn, Skit-Learn, Machine Learning (ML), Deep Learning (DL) Data Visualization, Tableau, Tensor Flow
Data Networks	IoT, Google Cloud, LAN Network Design, Troubleshooting, MS Server 2016, Active Directory, DNS Server, Firewalls, ISA and Exchange Server, CCNA, GSM
Database	SQL Server 2008, Oracle10 g, My SQL