

<b>Name:</b>	<b>Anwar Ahmed Khan</b>
<b>Designation:</b>	Associate Professor, Department of Computer Science, Faculty of Engineering & Computational Sciences
<b>Qualification:</b>	PhD (CS) (Wireless Sensor Networks), Institute of Business Administration, IBA Karachi. ME (Electronics), NED University of Engineering & Technology MSc. (Applied Physics, with Specialization in Electronics), University of Karachi. BE (Electronics), Usman Institute of Technology, Hamdard University.
<b>Email:</b>	anwar.ahmed@mite.edu.pk

**Research Sites/Links:** <https://orcid.org/0000-0002-2237-5124>  
<https://scholar.google.com/citations?user=yAO6P2EAAAAJ>

### Profile:

Anwar Ahmed Khan did BE (Electronics) from Hamdard University Karachi, Pakistan in 2004, MSc in Applied Physics (with specialization in Electronics) from University of Karachi in 2006, ME (Electronics) from NED University of Engineering & Technology, Karachi in 2015 and PhD from Faculty of Computer Science, Institute of Business Administration (IBA) Karachi in 2020. He worked at Hamdard University as a lab instructor, at Oil & Gas Development Corporation Ltd. as a trainee instrumentation engineer, at National Institute of Electronics as a design engineer and as adjunct faculty at IBA, at Sindh Institute of Management and Technology (SIMT) Karachi as assistant professor and Head of department for computer science. At present, Dr. Khan works at Millennium Institute of Technology and Entrepreneurship as Associate Professor in Computing Department. Dr. Khan is actively engaged in research in the areas of WSN and IoT and has published and presented his work at reputable venues such as IEEE ICC, IEEE COMPSAC, Mobicom, China-Com, IEEE Sensors Journal and Wireless Personal Communications. He has 14 journals, 16 conference articles, 1 book and 5 book chapter publications. He has active research collaborations with various local and international organizations, including University of Glasgow, Trinity College Dublin, University of Missouri at Kansas City, Quid-e-Azam University and DHA Suffa University. Furthermore, he also has experience of organizing conferences such as IEEE ICICT, which is one of the top conferences held at Pakistan, arranged by IBA, Karachi. He has been invited to various universities to deliver guest lectures, particularly focused on testbed development and demonstrations of Internet of Things.

### Research Interest

- Wireless Communications
- Internet of Things
- IoT applications in e-health
- IoT applications in disaster monitoring/management.

### Selected Publications

1. Siddiqui, S., **Khan, A. A.**, Abdesselam, N.F., Qasmi, S. A., Akhundzada, A., Dey, I., (2024). Towards Assessing Reliability of Next-Generation Internet of Things Dashboard for Anxiety Risk Classification, *IET Wireless Sensor Systems*. **[I.F.= 1.8]**
2. Khan, A. A., Siddiqui, S. & Dey, I. (2024). Enhancing Health Risk Prediction in Internet of Medical Things: Leveraging Association Rule Mining. *Journal of Universal Computer*

*Science*. [I.F= 1.056]

3. Siddiqui, S., **Khan, A. A.**, Hussain, M. A., Hyder, W., & Khattak, M. A. K. (2023). The Influence of Social Media on Purchase Decisions of Internet of Things (IoT) Devices. *Journal of Hunan University Natural Sciences*, 50(5), 19.
4. Siddiqui, S., **Khan, A. A.**, & Ghani, S. (2023). A Road Map to Developing Energy-Efficient MAC Protocol in Wireless Sensor Networks: A Case of ADP-MAC Development & Implementation. *Mehran University Research Journal of Engineering and Technology*, 42(1), 137-152.
5. Siddiqui, S., **Khan, A. A.** & Ghani, S. (2021). Achieving Energy Efficiency in Wireless Sensor Networks using Dynamic Channel Polling and Packet Concatenation. *China Communications*. 18(8): 249-270 [I.F= 2.69]
6. Siddiqui, S., Shakir, M. Z., **Khan, A. A.** & Dey, I. (2021). Internet of Things (IoT) enabled Architecture for Social Distancing during Pandemic. *Frontiers in Communications and Networks*.
7. Siddiqui, S., **Khan, A. A.**, Dev, Kapal, Dey, I. (2021). Integrating Federated Learning with IoMT for Managing Obesity in Smart City. *ACM Proceedings on 27th Annual Int. Conference on Mobile Computing and Networking. (MobiCom 2021). New Orleans, USA*
8. Khan, A. A, Siddiqui, S., Shah, S. M, Abdes Salam, N.F., Dey, I. (2021). Comparing ANN and SVM Algorithms for Predicting Exercise Routines of Diabetic Patients. *IEEE Int. Wireless Communications & Mobile Computing Conference (IWCMC 2021). Harbin, China*
9. Siddiqui, S., **Khan, A. A.**, Abdes Salam, N.F., Dey, I. (2021). Anxiety and Depression Management for Elderly Using Internet of Things and Symphonic Melodies. *IEEE Int. Conference on Communications (ICC)-2021. Montreal, Canada*
10. Khan, A., Siddiqui, S. & Ghani, S. (2020). FROG-MAC: A Fragmentation based MAC Scheme for Prioritized Heterogeneous Traffic in Wireless Sensor Networks. *Wireless Personal Communications*. 114, 2327–2361. [I.F= 1.671]
11. Siddiqui, S., Rory, N., Shakir, M. Z., **Khan, A. A.**, Khan, A. A., Khan, K.K. & Ramzan, N. (2020). Artificial Neural Network (ANN) enabled Internet of Things (IoT) Architecture for Music Therapy. *MDPI Electronics*.9 (12). [I.F= 2.41]
12. Khan, A., Ghani, S., & Siddiqui, S. (2018). A Preemptive Priority-Based Data Fragmentation Scheme for Heterogeneous Traffic in Wireless Sensor Networks. *Sensors*, 18(12), 4473. [I.F= 3.27]
13. Khan, A. A, Ghani, S., Siddiqui, S. (2018). A Taxonomy for MAC Protocols in Wireless Sensor Networks based on Traffic Prioritization. *Wireless Personal Communications*. 1-30. [I.F= 1.671]
14. Siddiqui, S., Ghani, S., & **Khan, A. A.** (2017). ADP-MAC: An Adaptive and Dynamic Polling based MAC Protocol for Wireless Sensor Networks. *IEEE Sensors Journal*. 18(2), 860-874. [I.F= 3.07]
15. Siddiqui, S., Ghani, S., & **Khan, A. A.** (2015). A Study on Channel Polling Mechanisms for the MAC Protocols in Wireless Sensor Networks. *International Journal of Distributed Sensor Networks*, 2015. [I.F= 1.64]