

Samia Masood Awan

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Objective

Utilizing my teaching skills towards a challenging career in growth-oriented and leading-edge research to provide mutual benefits to me and my students and using my capabilities to the fullest to assist the academia and society.

Teaching Experience

Under-Graduate & MS (Lecturer)	Department of Computer Science & IT, NED University of Engineering & Technology.	October 2022 - Present
Under-Graduate (Senior Lecturer)	Department of Computer Science, DHA SUFFA University.	September 2020 - September 2022
Under-Graduate & MCS (Visiting Faculty)	Department of Computer Science, Muhammad Ali Jinnah University.	September 2019 - July 2020
Under-Graduate & MCS (Teaching Assistant)	Department of Computer Science DCS - UBIT, University of Karachi.	July 2018 - December 2019
Under-Graduate & MCS (Visiting Faculty)	Department of Computer Science DCS - UBIT, University of Karachi.	July 2016 - Present Day

Academic Credentials

Ph.D	Computer Science & Information Technology, NED University of Engineering & Technology, Karachi.	Nov 2020- Present
M. E.	Computer Networks & Performance Evaluation, NED University of Engineering & Technology, Karachi.	2014
B. E.	Computer & Information System Engineering, NED University of Engineering & Technology Karachi.	2011

PEC Registration

PEC Registration No. : COMPUTER/8949

Journal Publications

- Awan, S.M.; Azad, M.A.; Arshad, J.; Waheed, U.; Sharif, T. A Blockchain-Inspired Attribute-Based Zero-Trust Access Control Model for IoT. Information 2023, 14, 129. <https://doi.org/10.3390/info14020129>

- Khan, F.H., Waheed, U., Awan, S.M., Shams, R. and Inayatullah, S., 2021. “An Energy Efficient Crypto Suit for Secure Underwater Sensor Communication using Genetic Algorithm.”, Sukkur IBA Journal of Emerging Technologies, 4(2), pp.1-17.
- Waheed, U., Ali Khan M. S., Awan S. M., Ahsan Khan M. & Mansoor Y. (2019). “*Decentralized Approach to Secure IoT based Networks using Blockchain Technology*”, 3C Tecnología. Glosas de innovación aplicadas a la pyme. Special Issue, May 2019, pp. 182-205, ISSN: 2254-4143.
- Urooj W., Samia M.A., M. Sadiq A. K., M. Ahsan K., Yusra K., “*Evolution and Application of General Attribute and Multiple Registration Protocol-A Comparative Study.*” published in International Journal of Computer Science & Network Security (IJCSNS), VOL.19 No.4, April 2019 issue, pp.187-194, ISSN 1738-7906.
- Khan M.S.A, Awan S.M, Kumar J., Ahmed S. (2018). “*Low Latency & Power Capping in Data Centre*” published in Universal Journal of Computer Science and Information Technology (UJCSIT), Vol 1, No.1, December 2018 issue, pp.31-47, ISSN 2664-3660.

Conferences

- Presented paper at the **25th International Symposium on Wireless Personal Multimedia Communications (WPMC’22)**. Hanif, R. Shams, S. M. Awan and M. Amir, “An Improved Genetic Algorithm-based Routing Protocol for Multimedia Data Transmission,” 2022 25th International Symposium on Wireless Personal Multimedia Communications (WPMC), Herning, Denmark, 2022, pp. 317-322, doi: 10.1109/WPMC55625.2022.10014845.
- Attended & Presented paper at the **2nd International Conference on Information Science and Communication Technologies (ICISCT’20)**, February 08-09, 2020, Department of Computer Science - UBIT, University of Karachi, Pakistan. Awan, S. M., Waheed, U., M. Ahsan Khan, M., & Mansoor, Y. “Violation of Users’ Privacy Rights by Facebook” in ICISCT’20, IEEE Xplore.
- Presented paper at the **2nd Dot to Infinity Vision & Articulation (DIVA) Conference**. organized by ACM-W, University of Karachi on October 24-25, 2019, held at IBA. “Women Empowerment & Enablement; Skills Development Opportunities for Innovative Women.” Page 13.
- Presented paper at the **2nd International Multi-Topic Conference on Engineering and Science (IMCES 19)** held on May 05th - 06th 2019 at Mauritius. Waheed, U., Ali Khan, M. S., Awan, S. M., Ahsan Khan, M. & Mansoor, Y. (2019). Decentralized Approach to Secure IoT based Networks using Blockchain Technology, IMCES’ 19 Abstract Book, Page 64, ISBN: 978-81-938900-9-7.
- Attended & Presented paper at the **1st International Conference on Information Science and Communication Technologies (ICISCT’19)**, March 09-10, 2019, Department of Computer Science - UBIT, University of Karachi, Pakistan. Qabil, S., Waheed, U., Awan, S. M., M. Ahsan Khan, M., & Mansoor, Y. “Survey on Emerging

Integration of Cloud Computing and Internet of Things” in ICISCT’19 Proceedings Book, Page 63.

- Attended “**ICICT 2011**”, 4th International Conference on Information and Communication Technologies held by IBA, Karachi.

Workshops

- Attended “**Fundamentals of Deep Learning for Computer Vision**” organized by ACM-W & NVIDIA in IBA on October 25th, 2019.
- Attended “**3rd Invention to Innovation Summit, Sindh 2018**” organized by University of Karachi on December 19th and 20th, 2018.
- Attended “**Huawei ICT Skills Competition Awareness Seminar**” organized by The Department of ORIC, UoK in collaboration with DCS-UBIT on September 26th, 2018.
- Attended “**One Day Hands-on Workshop on Python**” conducted by M. Yaseen Khan (Data Scientist and Senior Lecturer at MAJU) organized by Department of Computer Science - UBIT, University of Karachi on April 28th, 2018.
- Attended “**Data Science**” workshop organized by Dr. Sadiq Ali Khan, Chairman, Department of Computer Science - UBIT, University of Karachi on April 2nd and 3rd, 2018.
- Attended workshop on “**Research Methodology To Innovation**” arranged by Department of Computer Science - UBIT held at Arts Auditorium, University of Karachi on March 19th, 2018.
- Attended “**Machine Vision**” workshop conducted by Zeeshan Zia (Research Scholar from Zurich, Germany) organized by IEEE-WIE of NED University of Engineering and Technology on August 1st and 2nd, 2010.

Professional Achievements

- Registration Coordinator for “**ICONICS’22**”, 3rd International Conference on Computer Science & Software Engineering held at Department of Computer Science & Information Technology, NED University of Engineering & Technology on December 14th and 15th, 2022.
- Member Organizing committee “**ACM-W Conference 2019**”, 2nd International Conference for Women held at Institute of Business Administration, Karachi on October 24th, 2019.
- Member Pilot Team for “**IEEE YESIST 12, 2019**”, Department of Computer Science - UBIT, University of Karachi and helped short-list the best 3 contestants for the final competition in Stamford University, Bangkok, Thailand.

- Member Organizing team “**ICT DEFENCE STRATIGIC REFORMS SEMINAR 2019**” held at Seminar Hall, Department of Computer Science - UBIT, University of Karachi on 30th April,2019.
- Member Organizing committee “**ICISCT’19**”, 1st International Conference on Information Science and Communication Technologies in Department of Computer Science - UBIT, University of Karachi in March’19.
- Managing Editor of “**UJCSIT**, Universal Journal of Computer Science and Information Technology” from July 2018.
- Member Technical Committee of “**UJCSIT**, Universal Journal of Computer Science and Information Technology” and Chief Technical Support for UJCSIT website since July 2018.
- Member Organizing Committee “**UBIT Job Fair**” held on 28th October 2018 at Department of Computer Science - UBIT, University of Karachi.
- Member Organizing Committee “**Blockchain Summit 2018**” organized in ITCN ASIA 2018, at EXPO Center Karachi on September 27th, 2018.

Courses Taught

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| • Digital Logic Design | • Object Oriented Programming |
| • Data Structures & Algorithms | • Data Communication & Networking |
| • Programming Fundamentals | • Network Security & Cryptography |
| • Introduction to Software Engineering | • System design with Microprocessor |
| • Advanced Software Engineering | • Microprocessor and its Applications |
| • Operating System | • Business Communication Skills |
| • Introduction to Computer Science with Contemporary Language | • Writing & Documentation Skills. |