Biography

Dr. Mah-Rukh Fida

Senior Lecture, School of Business, Computing and Social Sciences, The Park, University of Gloucestershire, UK

Summary

Dr. Mah-Rukh is a seasoned academic and researcher with extensive expertise in telemetry and performance modeling in network communication. Currently a Senior Lecturer at the University of Gloucestershire, UK, she has a rich academic and research background.

Biography

Dr. Mah-Rukh served as a postdoctoral research fellow at the Simula Metropolitan Centre for Digital Engineering in Norway from November 2018 to March 2020. Sponsored by the prestigious UK Commonwealth Award, she earned her Ph.D. from The University of Edinburgh, UK, in 2018. She also holds an M.Sc. in IT with distinction from IMSciences, KP, Pakistan (2010). Prior to her Ph.D., she was a lecturer in Computer Science at Shaheed Benazir Bhutto Women University, Pakistan.

Research Contributions

Dr. Mah-Rukh has made significant contributions to network communication research. Her work includes:

- Developing efficient spatial crowdsourced sampling methods for radio coverage map prediction.

- Analyzing the impact of contextual and content-based parameters on the Quality of Experience for mobile web users.

- Localizing the footprint of cellular networks and identifying bottleneck links in end-to-end mobile broadband communication.

- Investigating the role of tensor factorization in performance tracking within mobile broadband networks and assessing the reliability of recovering missing observations.

- Optimizing autonomous vehicle deployment in partitioned networks to maintain high-quality information exchange.

- Utilizing the data plane of mobile broadband networks for telemetry and intrusion detection in communication systems.

Recent Work

Her recent projects focus on telemetry in mobile broadband networks using the data plane, as well as enhancing intrusion detection mechanisms within communication networks. Her work continues to advance the field of network performance optimization and security.