Omer Nawaz

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- Superintendent House, Boys Hostel 17, PU New Campus, Lahore
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Education

05/2023 – 02/2025 Karlskrona, Sweden	Ph.D. (Computer Science), Blekinge Tekniska Högskola
05/2023 Karlskrona, Sweden	Ph.D. Licentiate (Telecommunication Systems), Blekinge Tekniska Högskola
11/2011 Karlskrona, Sweden	Master of Electrical Engineering (Specialization: Internet Systems), Blekinge Tekniska Högskola
05/2003 Islamabad, Pakistan	Master of Computer Science, International Islamic University

Languages

English

••• Urdu

Work Experience

2022	Visiting Lecturer, <i>Blekinge Tekniska Högskola</i>
Karlshamn, Sweden	ET2601, Quality of Experience in network-based services
07/2021 – present	Assistant Professor (on study leave),
Lahore, Pakistan	Department of Software Engineering, University of The Punjab
11/2014 – 06/2021	Assistant Professor, <i>PUCIT, University of The Punjab</i>
Lahore, Pakistan	Courses related to Data Communications and Network Security
2014	Visiting Lecturer, <i>Blekinge Tekniska Högskola</i>
Karlskrona, Sweden	Course of Mobile Communications
11/2011 – 10/2014 Lahore, Pakistan	Lecturer, <i>PUCIT, University of The Punjab</i> Data Communication and Networks, Advance Networks, Network Administration and Network Security Courses
09/2003 – 01/2009 Lahore, Pakistan	Lecturer, <i>PUCIT, University of The Punjab</i> Knowledge mentor of Computer Networks subjects and member Curriculum Committee. During the planning & setup phase of the PUCIT project office, worked as a key member in designing the deliverables for the smooth execution of final projects.



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Publications

02/2025	Examining QoE Influence Factors: The Interplay of Perception and Experience, PhD Thesis (Blekinge Tekniska Högskola, Sweden) URN: urn:nbn:se:bth-27249 ☑ ISBN: 978-91-7295-495-3 (print)
2024	Journal Article Nawaz, O., Zhou, Y., Khatibi, S. and Fiedler, M., "Context-Aware QoE for Mobility-Driven Applications Through Dynamic Surveys," <i>Information</i> . 2024; 15(12):797. https://doi.org/10.3390/info15120797 🛛
2024	Journal Article Nawaz, O., Khatibi, S., Sheikh, M.N. and Fiedler, M., "Eye Tracking and Human Influence Factors' Impact on Quality of Experience of Mobile Gaming," Future Internet. 2024; 16(11):420. https://doi.org/10.3390/fi16110420 🛛
2024	Journal Article Nawaz, O., Fiedler, M. and Khatibi, S., "QoE-Based Performance Comparison of AVC, HEVC, and VP9 on Mobile Devices with Additional Influencing Factors," <i>Electronics</i> . 2024; 13(2):329. https://doi.org/10.3390/electronics13020329
05/2023	A Holistic View of QoE for Multimedia Streaming, PhD Licentiate Thesis (Blekinge Tekniska Högskola, Sweden) URN: urn:nbn:se:bth-24393 ☑ ISBN: 978-91-7295-454-0 (print)
2020	Conference Paper Nawaz, O., Fiedler, M. and Khatibi, S., "Impact of Human and Content Factors on Quality of Experience of Online Video Streaming," 11th International Conference on Data Communication Networking (DCNET), Paris, Jul. 2020, pp. 59–66.
2020	Conference Paper Nawaz, O., Fiedler, M., Moor, K.D. and Khatibi, S., "Influence of Gender and Viewing Frequency on Quality of Experience," 12th International Conference on Quality of Multimedia Experience (QoMEX), Athlone Ireland, May 2020, pp. 1–4.
2019	Conference Paper Minhas, T.N., Nawaz, O., Fiedler, M. and Khatibi, S., "The Effects of Additional Factors on Subjective Quality Assessments," 2nd IEEE International Conference on Advancements in Computational Sciences (ICACS), Lahore, 2019, pp. 1–5.
2017	Conference Paper Nawaz, O., Minhas, T.N. and Fiedler, M. , "QoE based comparison of H.264/AVC and WebM/VP8 in error-prone wireless network," in 2017 IFIP/IEEE Symposium on Integrated Network and Service Management (IM), Lisbon, May 2017.

2016	Journal Article Farash, M.S., Nawaz, O., Mahmood, K., Chaudhry, S.A. and Khan, M.K., "A Provably Secure RFID Authentication Protocol Based on Elliptic Curve for Healthcare Environments," Springer Journal of Medical Systems, vol. 40, no. 7, p. 165, May 2016.
2016	Journal Article Irshad, A., Sher, M., Nawaz, O., Chaudhry, S.A., Khan, I. and Kumari, S., " <i>A secure</i> <i>and provable multi-server authenticated key agreement for TMIS based on Amin</i> <i>et al. scheme</i> ,"Springer Multimedia Tools and Applications., pp. 1–27, Oct. 2016.
2014	Conference Paper Nawaz, O., Minhas, T.N. and Fiedler, M., "Optimal MTU for Realtime Video Broadcast with Packet Loss - A QoE Perspective," in Proceeding of IEEE 9th International Conference for Internet Technology and Secured Transactions, London, December 2014.
2012	Conference Paper Nawaz, O., Gehrmann, C. and Fiedler, M., "Secure Mobile Social Networks using USIM in a Closed Environment," in Proceeding of IEEE 7th International Conference for Internet Technology and Secured Transactions, London, December 2012, pp.439-446.
2011	Secure Identification in Social Wireless Networks, <i>Master's Thesis (Blekinge Tekniska Högskola, Sweden)</i> SWIN Project (SICS and Sony Ericsson AB)
Projects	
2010 – 2023	Industrial Projects I have collaborated with teams on joint projects involving industrial partners, such as Project SWIN, FEDNET, and the Kombinerat Mobilitetprojekt. The outcomes of these projects are incorporated in the accompanying list of publications.
2004 – 2023	Student Projects I have supervised 29 projects of Bachelor students (16 years study) and 4 Master theses at the Faculty of Information Technology, University of The Punjab, Lahore, Pakistan
06/2002 – 05/2003	Quality Suite The project was based on Software quality practices in "Askari Information Systems" and involved the development of software to automate various activities of the 'Quality Assurance Department' of the organization. The software is named "Quality Suite". The main objective of the project was to thoroughly implement the techniques & Measures related to automated Software Testing for Quality Assurance.

Skills

Python, C++, Visual Basic, MS SQL Server 2016, SPSS

References

Dr. Markus Fiedler, *Professor*, BTH, Sweden markus.fiedler@bth.se, +46708537339

Dr. Siamak Khatibi, *Associate Professor*, BTH, Sweden siamak.khatibi@bth.se, +46455385591