

Dr.Khalid Haseeb

Assistant Professor

Department of Computer Science,

Islamia College Peshawar, Peshawar, Pakistan.

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I have 15+ years of experience in teaching, research, and development. Since 2008, I am working in the Computer Science Department at Islamia College Peshawar, Peshawar, Pakistan. Before that, I was serving as a Lecturer at the different academic institutions. In Feb 2013, I have awarded a foreign scholarship to pursue my Ph.D. studies under the High Education Commission (HEC) Project (PSDP) for Islamia College Peshawar. I graduated from Universiti Teknologi Malaysia (UTM), Malaysia in June 2016 with a Ph.D. in computer science and won a certificate of excellence with the gold medal for excellent academic achievement. I am serving as a professional reviewer for many reputed international and national journals/conferences.

Personal Information

Date of Birth: 16th May 1979.

Place of Birth: KPK, Peshawar, Pakistan.

Nationality: Pakistani

Status: Married

Languages: Urdu, English, Pashto

Research Interests

- Internet of Things, Wireless sensor networks
- Cloud and fog computing
- Vehicular Ad-hoc Networks (VANETs)
- Information security, Trust computing
- Artificial intelligence, Machine learning

Education

- 2013-2016 Ph.D (Computer Science) Universiti Teknologi Malaysia (UTM), Malaysia.
- 2005-2007 MS-IT im|sciences, Peshawar, Pakistan.
- 1999-2001 M.Sc. Computer Science University of Peshawar, Pakistan.

Microsoft and Cisco Certifications

Successfully passed Microsoft Certifications and got the Certificates of Excellence.

- Microsoft Certified Professional (**MCP**)
- Microsoft Certified Systems Administrator (**MCSA**)
- Microsoft Certified Database Administrator (**MCDBA**)
- Cisco Certified Network Associate (**CCNA**)

Honors and Awards

- The foreign scholarship is awarded for Ph.D. studies from Feb 2013 to April 2016 under the High Education Commission Project (PSDP) for Islamia College Peshawar.
- I was awarded a Certificate of Excellence for the best Ph.D. thesis by the School of Graduate Studies, Universiti Teknologi Malaysia (UTM).
- In conjunction with the 57th convocation ceremony of Universiti Teknologi Malaysia (UTM), I was also awarded the Gold Medal (Best Postgraduate Student Award) based on excellent academic achievement in Ph.D.
- 3-years study leaves (with pay) from Islamia College Peshawar for Ph.D. on a competitive scholarship awarded by HEC.

Journal Publications (SCI/SCIE with JCR impact factors)

1. T Saba, A Rehman, **K Haseeb**, T Alam, G Jeon, Cloud-edge load balancing distributed protocol for IoE services using swarm intelligence, Cluster computing, 2023 (**Impact factor 2.3**)
2. A Rehman, T Saba, **K Haseeb**, R Singh, G Jeon, Smart health analysis system using regression analysis with iterative hashing for IoT communication networks, Computers and Electrical Engineering, Vol 114, 108456, **2022 (Impact factor 4.1)**
3. T Saba, A Rehman, **K Haseeb**, SA Bahaj, G Jeon, Energy-Efficient Edge Optimization Embedded System Using Graph Theory with 2-Tiered Security, Electronics 11 (18), 2942, 2022 (**Impact factor 2.6**)
4. A Rehman, T Saba, **K Haseeb**, T Alam, J Lloret, Sustainability Model for the Internet of Health Things (IoHT) Using Reinforcement Learning with Mobile Edge Secured Services, Sustainability 14(19): 12185,2022 (**Impact factor 3.2**)
5. **K Haseeb**, A Rehman, T Saba, SA Bahaj, H Wang, H Song, Efficient and trusted autonomous vehicle routing protocol for 6G networks with computational intelligence, Elsevier ISA Transactions, In press (**Impact factor 5.9**)
6. N Islam, **K Haseeb**, M Ali, G Jeon, Secured Protocol with Collaborative IoT-Enabled Sustainable Communication Using Artificial Intelligence Technique, Sustainability 14(14): 8919, 2022 (**Impact factor 3.2**)
7. I Abunadi, A Rehman, **K Haseeb**, L Parra, J Lloret, Traffic-Aware Secured Cooperative Framework for IoT-Based Smart Monitoring in Precision Agriculture, Sensors 22(17): 6676, 2022 (**Impact factor 3.5**)
8. N Islam, **K Haseeb**, A Rehman, T Alam, G Jeon, An adaptive and secure routes migration model for the sustainable cloud of things, Cluster Computing, Aug 2022 (**Impact factor 2.3**)
9. **K Haseeb**, N Islam, I Ahmed, MM Hassan, G Jeon, Artificial intelligence-enabled distributed energy conservative model for mobile internet of things using software-defined network, International Journal of Communication Systems, July 2022 (**Impact factor 2.0**)
10. **K Haseeb**, T Saba, A Rehman, Z Ahmed, HH Song, HH Wang, Trust management with fault-tolerant supervised routing for smart cities using internet of things, IEEE Internet of Things, 20 June 2022, DOI: 10.1109/JIOT.2022.3184632 (**Impact factor 9.4**)

11. T Saba, A Rehman, **K Haseeb**, SA Bahaj, J Lloret, Optimized Embedded Healthcare Industry Model with Lightweight Computing Using Wireless Body Area Network, *Wireless Communications and Mobile Computing* 2022 Volume 2022, p 1-10 (**Impact factor 2.3**)
12. **K Haseeb**, A Rehman, T Saba, SA Bahaj, J Lloret, Device-to-Device (D2D) Multi-Criteria Learning Algorithm Using Secured Sensors, *MDPI Sensors* 2022, 22(6), p 1-18 (**Impact Factor 3.5**)
13. A Rehman, **K Haseeb**, T Saba, J Lloret, Z Ahmed, Towards resilient and secure cooperative behavior of intelligent transportation system using sensor technologies, *IEEE Sensors* 2022, 22(7): p 7352-7360 (**Impact Factor 3.3**)
14. A. Rehman, **K. Haseeb**, T. Saba, J. Lloret, S. Sendra, An Optimization Model with Network Edges for Multimedia Sensors Using Artificial Intelligence of Things, *MDPI Sensors* 2021, 21: p 1-13 (**Impact Factor 3.5**)
15. **K. Haseeb**, Z. Jan, FA Alzahrani, G. Jeon, A Secure Mobile Wireless Sensor Networks based Protocol for Smart Data Gathering with Cloud, *Computers and Electrical Engineering*, 2022 Volume 97 (**Impact Factor 3.8**)
16. A. Rehman, **K. Haseeb**, SM Fati, J. Lloret, S. Penalver, Reliable Bidirectional Data Transfer Approach for the Internet of Secured Medical Things Using ZigBee Wireless Network, *MDPI Applied Sciences* 2021, 11: p 1-16 (**Impact Factor 2.6**)
17. A. Rehman, T. Saba, **K. Haseeb**, SLM. Sainte, J. Lloret, Energy-Efficient IoT e-Health Using Artificial Intelligence Model with Homomorphic Secret Sharing, *MDPI Energies* 2021, 14: p 1-14 (**Impact Factor 3.0**)
18. A. Rehman, **K. Haseeb**, T. Saba, H.Kolivand, M-SMDM: A model of security measures using Green Internet of Things with Cloud Integrated Data Management for Smart Cities, *Environmental Technology & Innovation*, Available online 16 July 2021, 101802 (**Impact Factor 5.2**)
19. **K. Haseeb**, T. Saba, A. Rehman, I. Ahmed, and J. Lloret, Efficient data uncertainty management for health industrial internet of things using machine learning, *International Journal of Communication Systems*, 2021: p. 1-14 (**Impact Factor 2.0**)
20. A. Rehman, **K. Haseeb**, T. Saba, J. Lloret, and Z. Ahmed, Mobility Support 5G Architecture with Real-Time Routing for Sustainable Smart Cities. *Sustainability*, 2021. 13(16): p. 1-16 (**Impact Factor 3.2**)
21. **K Haseeb**, I Ahmad, II Awan, J Lloret, I Bosch, A Machine Learning SDN-Enabled Big Data Model for IoT Systems, *MDPI Electronics*, 2021, 10: p. 1-13 (**Impact Factor 2.3**)
22. M. Elhoseny, **K. Haseeb**, A.A. Shah, I. Ahmad, Z. Jan, and M. Alghamdi, IoT Solution for AI-Enabled PRIVACY-PREServing with Big Data Transferring: An Application for Healthcare Using Blockchain. *Energies*, 2021. 14(17): p. 1-18 (**Impact Factor 3.0**)
23. Rehman, **K. Haseeb**, T. Saba, J Lloret, U. Tariq, Secured Big Data Analytics for Decision-Oriented Medical System Using Internet of Things, *MDPI Electronics*, 2021. 10(11), p. 1-13 (**Impact Factor 2.4**)
24. **K Haseeb**, I.U. Din, A. Almogren, I. Ahmed, and M. Guizani, Intelligent and Secure Edge-enabled Computing Model for Sustainable Cities using Green Internet of Things. *Sustainable Cities and Society*, 2021: p. 102779 (**Impact Factor 5.2**)
25. Khan, S.U., N. Islam, Z. Jan, **K. Haseeb**, S.I.A. Shah, and M. Hanif, A machine learning-based approach for the segmentation and classification of malignant cells in breast cytology images using gray level co-occurrence matrix (GLCM) and support vector machine (SVM). *Neural Computing and Applications*, 2021: p. 1-8 (**Impact Factor 4.7**)
26. **K Haseeb**, N Islam, Y Javed, U Tariq, "A Lightweight Secure and Energy-Efficient Fog-Based Routing Protocol for Constraint Sensors Network", *MDPI Energies*, December 2020, pages 1-14 (**Impact Factor 2.7**)
27. T Saba, **K Haseeb**, AA Shah, A Rehman, U Tariq, Z Mehmood, "A Machine Learning-based approach for autonomous IoT security", *IEEE IT Professional*, October 2020. (In Press) (**Impact Factor 3.7**)

28. **K Haseeb**, IU Din, A Almogren, Z Jan, N Abbas, M Adnan, "DDR-ESC: A distributed and data reliability model for mobile edge-based sensor-cloud", IEEE Access, October 2020, 10.1109/ACCESS.2020.3030192 (**Impact Factor 3.7**)
29. **K Haseeb**, KM Almustafa, Z Jan, T Saba, U Tariq, "Secure and Energy-aware Heuristic Routing Protocol for Wireless Sensor Network", IEEE Access, Vol 8 September 2020, pages 163962-163974 10.1109/ACCESS.2020.3022285 (**Impact Factor 3.7**)
30. **K Haseeb**, S Lee, and G Jeon, "EBDS: An energy-efficient big data-based secure framework using Internet of Things for green environment", Environmental Technology & Innovation, Volume 20, November 2020, 101129 pages 1-12 (**Impact Factor 3.3**)
31. **T Saba** , **K Haseeb**, IU Din, A Almogren, A Altameem and SM Fati "EGCIR: Energy-Aware Graph Clustering and Intelligent Routing Using Supervised System in Wireless Sensor Networks", MDPI Energies 2020, 13, 4072; doi:10.3390/en13164072 (**Impact Factor 2.7**)
32. S Khan, N Abbas, M Nasir, **K Haseeb**, T Saba, A Rehman, Z mehmoed, "Steganography-Assisted Secure Localization of Smart Devices in Wireless Multimedia Surveillance Networks" August 2020, Multimedia Tools and Applications (**Impact Factor 2.3**) (In Press)
33. T Saba, **K Haseeb**, I Ahmed, A Rehman "Secure and energy-efficient framework using Internet of MedicalThings for e-healthcare" Journal of Infection and Public Health Available online 15 July 2020 (In Press) (**Impact Factor 2.4**)
34. **K Haseeb**, A Almogren, IU Din, N Islam, A Altameem "SASC: Secure and Authentication-Based Sensor Cloud Architecture for Intelligent Internet of Things", MDPI Sensors Vol 20(9) April 2020 pages 1-18 (**Impact Factor 3.0**)
35. **K Haseeb**, IUDin, A Almogren, N Islam "An Energy Efficient and Secure IoT-based WSN Framework: An application to Smart Agriculture", MDPI Sensors Vol 20(7) April 2020 pages 1-15 (**Impact Factor 3.0**)
36. **K Haseeb** , IU Din, A Almogren , N Islam, Ayman Altameem, "RTS: A Robust and Trusted Scheme for IoT-Based Mobile Wireless Mesh Networks", IEEE Access, Vol.8(1), April 2020, pages 68379-68390 DOI: 10.1109/ACCESS.2020.2985851 (**Impact Factor 4.0**)
37. WU Rehman, T Salam, A Almogren, **K Haseeb**, IU Din, SH BOUK "Improved Resource Allocation in 5G MTC Networks", IEEE Access Vol.8(1) Feb 2020 pages 49187 - 49197 DOI:10.1109/ACCESS.2020.2974632 (**Impact Factor 4.0**)
38. UA Khan, MÁ Martínez-Del-Amor , SM Altowajjri , A Ahmed, AU Rahman , NU Sama , **K Haseeb**, N Islam "Movie Tags Prediction and Segmentation Using Deep Learning", IEEE Access Vol.8(1) Jan 2020 pages 6071-6086 10.1109/ACCESS.2019.2963535 (**Impact Factor 4.0**)
39. **K Haseeb** , N Islam ,T Saba , A Rehman, Z Mehmoed "LSDAR: A Light-weight Structure based Data Aggregation Routing Protocol with Secure Internet of Things Integrated Next-generation Sensor Networks", Sustainable Cities and Society Vol.54(2020),101995 online available 23 December 2019 pages 1-9 DOI: 10.1016/j.scs.2019.101995 (**Impact Factor 4.6**)
40. **K Haseeb** , N Islam , A Almogren , IU Din, "Intrusion Prevention Framework for Secure Routing in WSN-based Mobile Internet of Things", IEEE Access, Vol.7(1), December 2019, pages 185496-185505 DOI: 10.1109/ACCESS.2019.2960633 (**Impact Factor 4.0**)
41. **K Haseeb** , A Almogren, N Islam , IU Din, Z Jan, "An Energy-Efficient and Secure Routing Protocol for Intrusion Avoidance in IoT-Based WSN", energies, Vol.12(21), November 2019, pages 1-18 DOI:10.3390/en12214174 (**Impact Factor 2.7**)

42. N Islam , **K Haseeb** , A Almogren, IU Din , M Guizani , A Altameem, "A Framework for Topological based Map Building: A Solution to Autonomous Robot Navigation in Smart Cities", Future Generation Computer Systems, 27 Oct 2019, pages 1-24 DOI: 10.1016/j.future.2019.10.036 (**Impact Factor 5.7**).
43. FT Zuhra, KA Bakar,A Ahmed Arain, KM Almustafa, T Saba, **K Haseeb**, N Islam, LLTP-QoS: Low Latency Traffic Prioritization and QoS-Aware Routing in Wireless Body Sensor Networks", IEEE Access, Vol.7(1), 2019, pages 152777- 152787 (**Impact Factor 4.0**).
44. **K Haseeb**, N Abbas, MQ Saleem, OE Sheta, K Awan, N Islam, et al. (2019) RCER: Reliable Cluster-based Energy-aware Routing protocol for heterogeneous Wireless Sensor Networks. PLoS ONE 14(9): e0222009. <https://doi.org/10.1371/journal.pone.0222009>, 19 Sept 2019, pages 1-24 (**Impact Factor 2.7**)
45. I Ahmed, M Ahmed, M Nawaz, **K Haseeb**, S Khan, G Jeon, "Efficient topview person detector using point based transformation and lookup table", Computer Communications, Vol.147,Nov 2019, pages 188-197 (**Impact Factor 2.7**)
46. AR Bhangwar, A Ahmed, UA Khan, T Saba, K Almustafa, **K Haseeb**, N Islam, "WETRP: Weight based Energy & Temperature aware Routing Protocol for Wireless Body Sensor Networks", IEEE Access, Vol.7(1), 2019, pages 87987-87995 (**Impact Factor 4.0**).
47. **K Haseeb**, N Islam, A Almogren, IU Din, HN Almajed, N Guizani, "Secret Sharing-based Energy-aware and Multi-hop Routing Protocol for IoT based WSNs", IEEE Access, Vol. 7(1), 2019, pages 79980-79988, (**Impact Factor 4.0**)
48. KA Awan, N Ashraf, MQ Saleem, OE Sheta, KN Qureshi, A Zeb, **K Haseeb**, AS Sadiq, "A priority-based congestion-avoidance routing protocol using IoT-based heterogeneous medical sensors for energy efficiency in healthcare wireless body area networks", International Journal of Distributed Sensor Networks, Vol. 15(6), 2019, pages 1-15 (**Impact Factor 1.7**)
49. GR Khan, C Novara, **K Haseeb**, A Ishtiaq, "A novel algorithm for integrated control model using swarm robots for intruder detection and rescue schedules", Telecommunication Systems, 27 April 2019, pages 1-12, DOI:10.1007/s11235-019-00569-5 (**Impact Factor 1.5**)
50. T Darwish, KA Bakar, **K Haseeb**, "Reliable intersection-based traffic aware routing protocol for urban areas vehicular ad hoc networks", IEEE Intelligent Transportation Systems Magazine, Vol. 10 (1), 23 January 2018, pages 60-73 (**Impact Factor 3.6**).
51. **K Haseeb**, KA Bakar, A Ahmed, T Darwish, I Ahmed, "WECRR: Weighted Energy-efficient Clustering with Robust Routing for Wireless Sensor Networks", Wireless Personal Communication, Vol.97(1), November 2017, pages 695-721 (**Impact Factor 0.9**).
52. A Ahmed, KA Bakar, MI Channa, AW Khan, **K Haseeb**, "Energy-aware and secure routing with trust for disaster response wireless sensor network, Peer-to-Peer Networking and Applications, 2017, Vol. 10(1), pages 216-237 (**Impact Factor 1.2**).
53. **K Haseeb**, KA Bakar, AH Abdullah, A Ahmed, T Darwish, F Ullah, "A dynamic energy-aware fault tolerant routing protocol for wireless sensor networks", Computers and Electrical Engineering Vol. 56 (2016), pages 557-575 (**Impact Factor 1.5**).
54. **K Haseeb**, KA Bakar, AH Abdullah, T Darwish, "Adaptive energy aware cluster-based routing protocol for wireless sensor networks" Wireless Networks (2016), DOI 10.1007/s11276-016-1269-0, pages 1-16 (**Impact Factor 1.5**).
55. A Ahmed, KA Bakar, MI Channa, **K Haseeb**, AW Khan, "A trust aware routing protocol for energy constrained wireless sensor network", Telecommunication Systems, 2016, Vol.61(1), pages 123-140 (**Impact Factor 1.5**).
56. A Ahmed, KA Bakar, MI Channa, **K Haseeb**, AW Khan," TERP: A Trust and Energy Aware Routing Protocol for Wireless Sensor Network", IEEE Sensors, 2015, Vol.15 (12), pages 6962-6972 (**Impact Factor 2.5**).

57. A Ahmed, KA Bakar, MI Channa, **K Haseeb**, AW Khan, "A survey on trust based detection and isolation of malicious nodes in ad-hoc and sensor networks" *Frontiers of Computer Science*, 2015, Vol.9(2), pages 280-296 **(Impact Factor 1.0)**.

Journal Publications (others)

1. G.R.Khan, C.Novara, S.Ahmed, **K.Haseeb**, A.Istiaq, "Role of PSO in formation of Underwater Autonomous Vehicles (UAV)", *Technical Journal University of Engineering and Technology (UET) Taxila, Pakistan* Vol.23(3) 2018, pages 62-72.
2. ADNAN. A. ARAIN, A. MANZOOR, K. BROHI, **K. HASEEB**, I. A. HALEPOTO, I. A. KOREJO. "Artificial Intelligence Mark-up Language Based Written and Spoken Academic Chatbots using Natural Language Processing", *SindhUniv. Res. Jour. (Sci. Ser.)* Vol.50 (001) 153-158 (2018).
3. A Ahmed, **K Haseeb**, S Khokar, "A Light-Weight Trust Aware Routing Protocol For Wireless Sensor Network, *Gomal University Journal of Research(GUJR)*, Vol 33 Issue 1 June 2017 ISSN:1019-8180.
4. **K Haseeb**, KA Bakar, AH Abdullah, T Darwish, F Ullah, A Ahmed, "Improved Energy Aware Cluster based Data Routing Scheme for WSN", *Journal of TELKOMNIKA (Telecommunication Computing Electronics and Control)*, 2016, Vol.14 (2), pages 531-537.
5. **K Haseeb**, KA Bakar, AH Abdullah, A Ahmed, "Grid Based Cluster Head Selection Mechanism for Wireless sensor network", *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, 2015, Vol.13 (1), pages 269-276.
6. A Ahmed, KA Bakar, MI Channa, **K Haseeb**, Countering Node Misbehavior Attacks using Trust Based Secure Routing Protocol, *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, 2015, Vol.13 (1), pages 260-268.
7. **K Haseeb**, KA Bakar, AH Abdullah, "A Review of Cluster Heads Election in WSN", *World Applied Science Journal*, 2013, Vol. 28 (4), pages 578-582.
8. **K Haseeb**, KA Bakar, Kashif Naseer Qureshi, "Comparison of Public Key Authority and Token Based Registration Approach", *World Applied Science Journal*, 2013, Vol. 23 (6), pages 740-743.
9. **K Haseeb**, M Arshad, S Ali and S Yasin "Secure E-commerce Protocol", *International Journal of Computer Science and Security (IJCSS)*, 2011, Vol. 5 (1), pages.742-751.
10. S Rehman , **K Haseeb**, "*Intelligent Data Mining Optimization Using Tolerance Factor*", *MASAUM Journal of Reviews and Surveys* , 2009, Vol. 1(2), pages 218-220.
11. S Rehman , **K Haseeb**, "*Agro-Based Decision Support System using Linear Programming*", *MASAUM Journal of Reviews and Surveys* , 2009, Vol.1(2), pages 221-226.
12. S Yasin, **K Haseeb**, RJ Qureshi "Cryptography Based E-commerce Security: A Review", *IJCSI International Journal of Computer Science*, 2012, Vol. 9(2), pages 132-137.

Conference Proceedings

1. A Ahmed, KA Bakar, **K Haseeb**, "A Trust Aware Routing Protocol for Combating Node Misbehavior Attack in WSN", *Proceedings of The IRES 11th International Conference*, Bangkok, Thailand, 4th October 2015.
2. **K Haseeb**, KA Bakar, AH Abdullah, A Ahmed, "Energy Efficient Cluster based Scheme for WSN", 4th international Multi-topic Conference, Mehran University of Engineering and Technology, Jamshoro, Sindh Pakistan, 11-13 Feb, 2015.

3. **K Haseeb**, A.Muhammad, S Yasin and N Abbas "A Survey of VANET's Authentication", Proceedings of the tenth annual postgraduate symposium on the convergence of telecommunications, networking and broadcasting (PGNet 2010), Liverpool John Moores University, Liverpool, UK, (21-22 June 2010)
4. S Ali, **K Haseeb**, S Solehria, "Enhanced Approach to E-commerce Security", 9th Abstract Level National Conference Computer and Management Sciences, 25th June 2009 Szabist, Islamabad
5. I Ahmad, R. Aneel, J. Adeel, **H. Khalid**, and G. Qasim, "A comparative study of parallelization paradigms", Proceedings of the 7th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems, Cambridge, UK, pp.89-94,(2008).

Acedamic/Faculty Experience

- **Jan 2008 – to date** Assistant Professor on permanent basis since 4th May 2019, Computer Science Department, Islamia College Peshawar, Peshawar, Pakistan.
Lecturer on permanent basis from 9th Feb 2010 to 3rd May 2019, Computer Science Department, Islamia College Peshawar, Peshawar, Pakistan.
Lecturer on a Contract basis from 28th Jan 2008 to 8th Feb 2010, Computer Science Department, Islamia College Peshawar, Peshawar, Pakistan.
- **Feb 2013 – April 2016** *Doctoral Researcher in Faculty of Computing, Universiti Teknologi Malaysia (UTM), Malaysia.*
- **Oct 2003 – Jan 2008** Lecturer *in CS/IT Department, Sarhad University of Science & I.T, Peshawar*

Visiting Faculty Experience

- **Oct 2019 – Jan 2020** *Department of Computer Science, Cecos University, Peshawar.*
- **Oct 2016 – Jan 2018** *Department of Computer Science, City University of Science and Information Technology, Peshawar.*
- **Dec 2016 – May 2017** *Department of IBMS, Agriculture University, Peshawar.*
- **Oct 2016 – Jan 2017** Department of Computing, Abasyn University Peshawar.
- **April 2010 – Jan 2013** Department of CS & I.T, im|sciences, Peshawar.
- **Jan 2007 – Dec 2007** Department of CS, Brains Degree College, Peshawar.
- **July 2004 – June 2005** Semi Government Institution Comsats, Peshawar.
- **Dec 2002 – Sept 2004** University of Engineering and *Technology, Mardan.*

Taught Courses

I am skilled in various courses in the discipline of computer science and business administration.

- Advance Computer Networks
- Advance Databases in Oracle and SQL-Server
- Computers for executives
- Compiler Construction
- Data Structure and Algorithms
- Cryptography & Network Security
- Data Communication
- Computer Networks
- Database Concepts
- Large Scale Databases Management System
- Introduction to ICT
- Java
- Linux Administration
- Network programming in C/Java
- Network Simulations in NS2
- Network Strategies and Design
- Operating Systems
- Visual Programming
- Programming in .Net
- Programming in C/C++
- Programming in Python
- Research Methods/Surveys
- Routing and Switching
- Simulation and Modeling
- Formal methods in Software Engineering
- Software Engineering
- System Analysis and Design

External Examiner/Evaluator

- External Examiner of Mr. Muhammad Faheem Khan for the Ph.D. proposal entitled “SEMANTIC RULE-BASED SIMILARITY IDENTIFICATION TO SUPPORT THE JUDICIAL DECISION MAKING PROCESS” 8th meeting of Board of Advanced Studies and Research (BASAR) Nov 2019, Iqra National University, Peshawar, Pakistan.
- External Examiner of Mr. Danish Yaqubi for MS thesis entitle “BER and NCMSE based estimation and equalization algorithms for underwater noisy communication channels”, Nov 2019, Iqra National University, Peshawar, Pakistan
- External Examiner of Mr. Masroor Shah for MS-CS thesis entitled “Extracting Useful Information from Dark Data Using Enhanced Method”, Oct 2019, Iqra National University, Peshawar, Pakistan.
- External Examiner of Mr. Waheed Shah for MS-CS thesis entitled “Combating web Spam with TAR (Trust Anti-trust rank)”, Oct 2019, Iqra National University, Peshawar, Pakistan.

- External Examiner of Mr. Zohaib Hassan for MS-CS thesis entitled “Energy Harvesting in Mod Leach Protocol”, Oct 2019, Iqra National University, Peshawar, Pakistan.
- External Examiner of Mr. Saud ur Rehman for MS-CS thesis entitled “Performance Analysis of Equalization Algorithms for an Advanced Wireless Communication System”, Oct 2019, Iqra National University, Peshawar, Pakistan.
- External Examiner of Mr. Muhammad Shehzad for MS thesis entitled “A Robust Method for Road Lane Detection at Night Road Studs”, Sept 2019, Abasyn University, Peshawar, Pakistan.
- External Examiner of Mr. Atif Ishtiaq for the Ph.D. thesis entitled “Computational Intelligence Based Secure Clustering Technique for Vehicular ADHOC Networks (VANETs)”, May 2019, Iqra National University, Peshawar, Pakistan.
- External Examiner of Mr. Adil Sheraz for MS thesis entitled “A Hospital Scenario Based Mobile Node Association Scheme for Wireless Body Area Network”, Abasyn University Peshawar, Pakistan.
- External Examiner of Mr. Abdul Haseeb for MS thesis entitled “Comparison of Fault Restoration Models for Multiprotocol Label Switching”, Institute of Management Sciences, Peshawar, Pakistan.
- External Examiner of Mr. Pir Zada for MS thesis entitled “Finding association Rules in Medical Data using frequent patterns growth (FP-growth) Algorithm”, March 2019, Institute of Management Sciences, Peshawar, Pakistan
- External Examiner of Mr. Shahid Rehman for MS thesis entitled “A Secure Steganography in Digital Images for Secure Communication based on LSB Substitution Technique”, March 2019, Abasyn University Peshawar, Pakistan.
- External Examiner of Mr. Majid Khan for MS thesis entitled “Advanced Zonal Stable Election Protocol (AZ-SEP) for Wireless Sensor Network”, Jan 2018, Institute of Management Sciences, Peshawar, Pakistan.

Training/Seminar Attended

- Cisco Certified Network Associate Instructor training from PTCL Cisco Regional Academy, Islamabad
Extensively worked on Cisco Routers and Switches, NAT, Access List, Routing Protocols and successfully passed Cisco Instructor Exams.
- Red Hat Linux Administration
Extensively worked on Linux servers, security, firewalls, and troubleshooting.
- Postgraduate Annual Research Seminars (PARS) in 2013, 2014 & 2015, Faculty of Computing, UTM, Malaysia.

Conferences and Journals Reviewer

- Wireless Personal Communications
- Computer and Electrical Engineering
- Cluster Computing
- IEEE Sensors
- IEEE Access
- MDPI Sensors
- Journal of Supercomputing
- Computer Networks
- Adhoc Networks
- Journal of Network and Computer Applications

- Journal of TELKOMNIKA (Telecommunication Computing Electronics and Control)
- Member of Technical Program Committee (TPC) of ICT-ISPC 2017, Organized by Universiti Teknologi Malaysia (UTM).

Languages

- Databases: Oracle, SQL-Server, My-Sql
- Mathematical Packages: Matlab, Mathematica
- Operating systems: Mac OS, X, Windows, Unix, Linux
- Programming languages: C/C++, VB.net, Java, Python
- Scripting languages: Awk, Perl, Tcl
- Simulation tools: NS2, Opnet

References

- Prof. Dr. Kamalrulnizam Abu Bakar, Faculty of Computing, Universiti Teknologi Malaysia, Malaysia.
email: knizam@utm.my
- Dr. Tanzila Saba, Research Professor, Artificial Intelligence & Data Analytics (AIDA), Prince Sultan University, Riyadh, Saudi Arabia.
email: tsaba@psu.edu.sa