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| haleem farman  Department of Computer Science, Islamia College Peshawar, Pakistan · +92 333 9201135  Haleem.farman@icp.edu.pk  https://scholar.google.com/citations?user=obyugpYAAAAJ&hl=en&oi=ao |
| “Contribute towards community’s wellbeing through progressive research & development activities” |

# Experience

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| Lecturer, Islamia College Peshawar, Pakistan6th Nov 2009 – To Date Engaged in teaching and R&D activities, student counseling, and research supervision   * + Teaching to Graduate and Post-Graduate Students   + Supervising BS projects   + Supervising MS and Ph.D. Thesis   + Conducting workshops, training sessions, boot camps and various competitions.   + Applying to various local and international research funding   **Administrative RESPONSIBILITIES:**  i) Deputy Director (Planning and Development) Dec 2021 to date  ii) Kamyab Jawan Innovation League (Focal Person) June 2022 to date  iii) Undergraduate Coordinator Dec 2021 to date  iv) Deputy Controller of Examinations Aug 2014 to Jan 2017  v) Network Administrator Nov 2009 to Mar 2011  vi) Resident Warden Sep 2010 to Apr 2012 |
| telecom implementation engineer, nokia siemens network, karachi, pakistan24th apr 2007– 31st jan 2009telecom SUPPORT engineer, voxel communications pvt ltd, islamabad, pakistan23rd Jun 2005– 23rd apr 2007 |

# Education

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| may 2018PhD (Computer Science), university of peshawar, pakistan **CGPA:** 3.6/4.0  **Thesis Title:** “Energy Efficient Grid-based Hybrid Network Deployment Approach in Wireless Sensor Networks” |
| Oct 2008MS, international islamic university, islamabad, pakistan **CGPA:** 3.07/4.0  **Thesis Title:** “Quality of Service Routing in Mobile Adhoc Networks” |
| spring 2004BIT (Honors), Iqra University, karachi **CGPA:** 3.61/4.0  Majors in Networking |
| 2000HSSC (Pre-engineering), Islamia College Peshawar **MARKS OBTAINED:** 709/1100, 1st Div |
| 1998SSC (Science Group), islamia collegiate School Peshawar.Marks Obtained: 586/850, 1st Div |

# member of committees

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| 1. University Ranking Committee (Islamia College Peshawar, Pakistan) 2. ORIC Steering Committee (Islamia College Peshawar, Pakistan) 3. Board of Studies (Sarhad University of Science and Technology, Peshawar, Pakistan) 4. Postgraduate Program review committee (City University of Science and Information Technology, Peshawar, Pakistan) 5. Post Graduate Admission Committee, Department of Computer Science, Islamia College Peshawar, Pakistan 6. Undergraduate Admission Committee, Department of Computer Science, Islamia College Peshawar, Pakistan. 7. Final Year Project Evaluation Committee, Department of Computer Science, Islamia College Peshawar, Pakistan. | |
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# professional trainer:

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| 1. Internet of Things (System development and application) under Prime Minister Kamyab Jawan Program “Skills for All” by National Vocational Technical Training Commission, Islamabad, Pakistan from 20th Feb 2020 till date. |

# R&D FUnded Projects:

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| 1. **Title:** Assisting Farmers in Plant Disease Detection and Treatment at Early Stages using Smart Phone Application   **Funded By**: Sustainable Development Unit, P&D Dept. Govt. of Khyber Pakhtunkhwa, Pakistan  **Role:** Principal Investigator  **Amount:** PKR 9.002 Million  **Status:** Completed     1. **Title:** Monitoring of Fruit Plants for Disease Identification using Deep Learning   **Amount:** PKR 11.761 million  **Role:** Co-Principal Investigator  **Funded By**: Higher Education Commission, Islamabad, Pakistan  **Status**: Completed   1. **Title:** RFID and GSM based Monitoring & Safety System for School Kids   **Funded By**: Directorate of Science & Technology, Govt. of Khyber Pakhtunkhwa, Pakistan  **Amount:** PKR 0.275 Million  **Role:** Principal Investigator  **Status:** Completed   1. **Title:** Prime Minister Kamyab Jawan Program “Skills for All” Batch-01   **Funded By:** National Vocational Technical Training Commission, Islamabad, Pakistan  **Amount:** PKR 5.2 Million  **Role:** Project Coordinator  **Status:** Completed   1. **Title:** Prime Minister Kamyab Jawan Program “Skills for All” Batch-02   **Funded By:** National Vocational Technical Training Commission, Islamabad, Pakistan  **Amount:** PKR 7.0 million  **Role:** Project Coordinator  **Status:** Completed   1. **Title:** Prime Minister Kamyab Jawan Program “Skills for All” Batch-03   **Funded By:** National Vocational Technical Training Commission, Islamabad, Pakistan  **Amount:** PKR 3.4 million  **Role:** Project Coordinator  **Status:** In-Progress |

# awards and achievements:

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| 1. Established “Smart Technologies Lab” at the Department of Computer Science, Islamia College Peshawar under funded project worth **PKR 9.002 Million**. 2. Travel Grant of **PKR 293,000/-,** by the Higher Education Commission (HEC) to present a research paper in 34th ACM/SIGAPP Symposium on Applied Computing, in Limassol, Cyprus, held on 8-12 April 2019. |

# Journal Publications

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| 1. **Haleem Farman**,Zahid Khan, Bilal Jan, Wadii Boulila, Shabana Habib, and Anis Koubaa, “*Smart Transportation in Developing Countries: An Internet-of-Things-Based Conceptual Framework for Traffic Control*”, **Wireless Communications and Mobile Computing.** 2022, **[SCIE 21: 2.146]**   <https://doi.org/10.1155/2022/8219377>   1. **Farman, H**.; Khan, T.; Khan, Z.; Habib, S.; Islam, M.; Ammar, *“Real-Time Face Mask Detection to Ensure COVID-19 Precautionary Measures in the Developing Countries*”. **Appl. Sci.** 2022, 12(8), 3879. . **[SCIE ’21: 2.679]** <https://doi.org/10.3390/app12083879>. 2. **Haleem Farman**, Abizar Khalil, Naveed Ahmad, Albattah W, Muazzam Ali Khan, Muhammad Islam. “*A Privacy Preserved, Trust Relationship (PTR) Model for Internet of Vehicles*”. **Electronics**. 2021; 10(24):3105. **[SCIE ’21: 2.397].** <https://doi.org/10.3390/electronics10243105>. 3. Ali, H., **Farman, H**., Yar, H. *et al.* “*Deep learning-based election results prediction using Twitter activity”*. **Soft Computing** (2021). **[SCIE ’21: 3.643].** <https://doi.org/10.1007/s00500-021-06569-5>. 4. **Haleem Farman**, Jamil Ahmad, Bilal Jan,Yasir Shahzad, Muhammad Abdullah andAtta Ullah, “*EfficientNet-based Robust Recognition of Peach Plant Diseases in Field Images”*. **Computers, Materials & Continua**, vol. 71, no.1, pp. 2073-2089, 2022. **[SCIE ’21: 3.772]** [doi:10.32604/cmc.2022.018961](https://www.techscience.com/cmc/v71n1/45366) 5. Y. Shahzad, H. Javed, **H. Farman**, J. Ahmad, B. Jan et al., "*Optimized predictive framework for healthcare through deep learning*," **Computers, Materials & Continua**, vol. 67, no.2, pp. 2463–2480, 2021. **[SCIE ’20: 4.89].** 6. Jamil Ahmad, Bilal Jan, **Haleem Farman**, Wakeel Ahmad and Atta Ullah, *Disease Detection in Plum using Convolutional Neural Network under True Field Conditions*. **Sensors**, vol. 20, no.19, 2020 **[SCIE ’20: 3.275]** 7. Abizar, **Farman Haleem**, Bilal Jan, Zahid Khan, and Anis Koubaa. "*A smart energy‐based source location privacy preservation model for Internet of Things‐based vehicular ad hoc networks*." **Transactions on Emerging Telecommunications Technologies** (2020). **[SCIE ’20: 1.594].** 8. Yasir Shahzad, Huma Javed, **Haleem Farman**, Jamil Ahmad, Bilal Jan, and Muhammad Zubair. *Internet of energy: Opportunities, applications, architectures and challenges in smart industries*. **Computers & Electrical Engineering** 86 (2020): 106739. **[SCIE ’20: 2.663]** 9. Khan, Zahid, Anis Koubaa, and **Haleem Farman**. "*Smart route: Internet-of-vehicles (iov)-based congestion detection and avoidance (iov-based cda) using rerouting planning*." **Applied Sciences** 10, no. 13 (2020): 4541. **[SCIE ’20: 2.74]** 10. Khan, Zahid, Sangsha Fang, Anis Koubaa, Pingzhi Fan, Fakhar Abbas, and **Haleem Farman**. "*Street-centric routing scheme using ant colony optimization-based clustering for bus-based vehicular ad-hoc network*." **Computers & Electrical Engineering** 86 (2020): 106736. **[SCIE ’20: 2.663]** 11. Jan, Bilal, **Haleem Farman**, Murad Khan, Muhammad Talha, and Ikram Ud Din. "*Designing a smart transportation system: An internet of things and big data approach*." **IEEE Wireless Communications** 26, no. 4 (2019): 73-79. **[SCIE ’19: 9.2]** 12. Jan, Bilal, **Haleem Farman**, Murad Khan, Muhammad Imran, Ihtesham Ul Islam, Awais Ahmad, Shaukat Ali, and Gwanggil Jeon. "*Deep learning in big data analytics: a comparative study*." **Computers & Electrical Engineering** 75 (2019): 275-287. **[SCIE ’19: 2.74]** 13. Khattak, Hasan Ali, **Haleem Farman**, Bilal Jan, and Ikram Ud Din. *"Toward integrating vehicular clouds with IoT for smart city services*." **IEEE Network** 33, no. 2 (2019): 65-71. **[SCIE ’19: 7.2]** 14. **Haleem Farman**, Jan, B., Javed, H., Ahmad, N., Iqbal, J., Arshad, M., & Ali, S. (2018). *Multi-criteria based zone head selection in Internet of Things based wireless sensor networks*. **Future Generation Computer Systems. [SCIE ’18 : 3.997]** 15. Khan, O. A., Shah, M. A., Din, I. U., Kim, B. S., Khattak, H. A., Rodrigues, J. J**., Farman. H** & Jan, B. (2018). *Leveraging Named Data Networking for Fragmented Networks in Smart Metropolitan Cities*. **IEEE Access**, 6, 75899-75911, 2018. **[SCIE ’18: 3.557]** 16. Badshah, A., Islam, N., Shahzad, D., Jan, B., **Farman, H**., Khan, M., & Ahmad, A. (2019). *Vehicle navigation in GPS denied environment for smart cities using vision sensors*. **Computers, Environment and Urban Systems**, 2018.  **[SCIE ’18: 3.724]** 17. Iqbal, J., Khan, M., Talha, M., **Farman, H**., Jan, B., Muhammad, A., & Khattak, H. A. (2018). *A Generic Internet of Things Architecture for Controlling Electrical Energy Consumption in Smart Homes*. **Sustainable Cities and Society**, 2018. **[SCIE ’18: 3.2]** 18. Hidayat Ullah, Naveed Islam, Zahoor Jan, **Haleem Farman**, Bilal Jan, Gwanggil Jeon & Awais Ahmad, *Optic disc segmentation and classiﬁcation in color fundus images: a resource‑aware healthcare service in smart cities*. **Journal of Ambient Intelligence and Humanized Computing**, (2018). **[SCIE ’18: 1.423]** 19. **Haleem Farman**, Jan, B., Talha, M., Zar, A., Javed, H., Khan, M, & Han, K. (2018). *Multicriteria-Based Location Privacy Preservation in Vehicular Ad Hoc Networks,* **Complexity**, 2018 **[SCIE ’18: 4.621]**. 20. Shaukat Ali, Azhar Rauf, Naveed Islam, **Haleem Farman**, Bilal Jan, Murad Khan, Awais Ahmad, Arunkumar Sangaiah and Gwanggil Jeon, “*SGKMP: A Scalable Group Key Management Protocol*”, **Sustainable Cities and Societies** (2018). **[SCIE ’18: 1.77]** 21. Latif, S., Mahfooz, S., Ahmad, N., Jan, B., **Farman, H**., Khan, M., & Han, K. (2018). *Industrial Internet of Things Based Efficient and Reliable Data Dissemination Solution for Vehicular Ad Hoc Networks*. **Wireless Communications and Mobile Computing** 2018**. [SCIE ’18: 1.899]** 22. Atif Khan, Naomie Salim, **Haleem Farman**, Murad Khan, Awais Ahmad and Anand Paul, “*Abstractive Text Summarization based on Improved Semantic Graph Approach*”, **International Journal of Parallel Programming** (2018). **[SCIE ’18: 1.156]** 23. Shahid Latif, Bilal Jan, Saeed Mahfooz, Naveed Ahmad, **Haleem Farman** and Murad Khan,” *Multicriteria based Next Forwarder Selection for Data Dissemination in Vehicular Ad Hoc Networks using Analytical Network Process*”, **Mathematical Problems in Engineering**, 2017. **[SCIE ’17: 0.802]** 24. Shaukat Ali, Azhar Rauf, Naveed Islam and **Haleem Farman**, “*A Framework for secure and privacy protected collaborative contents sharing using Public OSN*”, **Cluster Computing** (2019). **[SCIE ’18: 2.01]** 25. Bilal Jan, **Haleem Farman**, Huma Javed, Bartolomeo Montrucchio, Murad Khan and Shaukat Ali, “*Energy Efficient Hierarchical Clustering Approaches in Wireless Sensor Networks: A Survey*”, **Wireless Communications and Mobile Computing**, 2017. **[SCIE ’17: 1.899]** 26. **Haleem Farman**, Huma Javed, Bilal Jan, Jamil Ahmad, Shaukat Ali, Falak Naz Khalil, Murad Khan: *Analytical network process based optimum cluster head selection in wireless sensor network*. **PLoS ONE** 07/2017; 12(7-7): e0180848., DOI: 10.1371/journal.pone.0180848 **[SCIE ’17: 2.806]** 27. Nazir, Shah, Sara Shahzad, Rodziah Binti Atan, and **Haleem Farman**. "*Estimation of software features based birthmark.*" **Cluster Computing** (2018): 1-14. **[SCIE ’18: 2.01]** 28. Shaukat Ali, Azhar Rauf, Naveed Islam, Haleem Farman and Sahib Khan, “*User profiling: A Privacy issue in Online Public Network*”, **Sindh University Research Journal (Sci. Ser)**, Vol. 49, no. 1, pp:125-128, 2017. **[HEC recognized Cat X]** 29. **Haleem Farman**, Huma Javed, Jamil Ahmad, Bilal Jan, Muhammad Zeeshan: *Grid-Based Hybrid Network Deployment Approach for Energy Efficient Wireless Sensor Networks*. **Journal of Sensors** 10/2016; 2016(3):1-14., DOI:10.1155/2016/2326917 **[SCIE ’16: 0.712]** 30. Huma Javed, Yasir Shahzad, **Haleem Farman**, Bilal Jan and Sahib Khan,” *Variable Length Group Multicasting for IPv6 based Wireless Sensor Network using Protocol Independent Multicast*”, **Sindh University Research Journal (Sci. Ser)**. **[HEC recognized Cat X]** 31. Huma Javed, Sifat Ullah, Haleem Farman, Muhammad Zeeshan and Sahib Khan, “*A Hybrid Energy Efficient Technique to Improve Source Location Privacy in Wireless Sensor Networks*”, **SURJ, (Sci. Ser.)**, Vol. 48, no.4, pp: 809-814 (2016). **[HEC recognized Cat X]** 32. Khan Muhammad, Jamil Ahmad, **Haleem Farman**, Zahoor Jan, Muhammad Sajjad, Sung Wook Baik: *A Secure Method for Color Image Steganography using Gray-Level Modification and Multi-level Encryption*. **KSII Transactions on Internet and Information Systems** 05/2015; 9(5):1938-1962. **[SCIE ’15 : 0.365]** 33. Muhammad, Khan, Jamil Ahmad, **Haleem Farman**, and Zahoor Jan. "*A new image steganographic technique using pattern-based bits shuffling and magic LSB for grayscale images*." **Sindh University Research Journal** (2016). **[HEC recognized Cat X]** 34. Ali, Shaukat, Azhar Rauf, Shah Khusro, Muhammad Zubair, **Haleem Farman**, and Sajid Ullah. "*An authorization model to access the summarized data of data warehouse*." **Life Sciences Journal** 11 (2014). **[SCIE ’14: 0.17].** 35. Zahid, Abdul Nawaz, Gohar Ali, **Haleem Farman**, Huma Javed, “*Performance Analysis of AOMDV over TCP and UDP Traffic Pattern under Several Scenarios in Mobile Adhoc NETworks (MANETs)*”, **Journal of Basic and Applied Scientific Research**, 5(12), pp: 35-41, 2015. 36. Muhammad, K., Ahmad, J., **Farman, H**., & Zubair, M. (2015), “*A novel image steganographic approach for hiding text in color images using HSI color model*”, **Middle East journal of Scientific Research**, (2014). **[ISI Indexed]** 37. Khan, Zahid, **H. Farman** Tayeba, Isra Iqbal Awan, and Abdul Nawaz. "Impact of mobility models over multipath routing protocols." Int. J. Inf. Technol. Comput. Sci.(IJITCS) 19, no. 1 (2014). 38. Nawaz, Abdul, Mushtaq Ahmad Zahid, **Haleem Farman**, and Muhammad Najam-ul-Islam. "*Performance analysis of proactive and reactive routing protocols in mobile ad hoc networks*”, **Science International Lahore** (2014). **[ISI Indexed]** 39. Zahid, **Haleem Farman**, Mushtaq Ahmad, Muhammad Najam-Ul-Islam, and Huma Javed. "*Performance evaluation of TCP (transmission control protocol) and UDP (user datagram protocol) over destination sequence distance vector (DSDV) for random waypoint mobility model*." **World Applied Sciences Journal** 20, no. 7 (2012): 910-916. **[ISI Indexed]** 40. **Haleem Farman**, Huma Javed, Muhammad Arshad, and Sajid Ullah. "*Performance Analysis of High-Resolution Robust Localization and Secure Range Independent Localization in Wireless Sensor Networks*." **World Applied Sciences Journal** 20, no. 5 (2012): 709-714. **[ISI Indexed]** |

# Conference Proceedings

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| --- |
| 1. H. Jan, H. Yar, J. Iqbal, **H. Farman**, Z. Khan and A. Koubaa, "Raspberry Pi Assisted Safety System for Elderly People: An Application of Smart Home," IEEE First International Conference of Smart Systems and Emerging Technologies (SMARTTECH), Riyadh, Saudi Arabia, 2020, pp. 155-160, doi: 10.1109/SMART-TECH49988.2020.00046. 2. Jan, Bilal, **Haleem Farman**, Murad Khan, and Syed Hassan Ahmad. "An adaptive energy efficient scheme for energy constrained wireless sensor networks." In Proceedings of the 34th ACM/SIGAPP Symposium on Applied Computing, pp. 2391-2398. Limassol, Cyprus, 2019. 3. Khan, Atif, Naomie Salim, and **Haleem Farman**. "Clustered genetic semantic graph approach for multi-document abstractive summarization." In Intelligent Systems Engineering (ICISE), 2016 International Conference on, pp. 63-70. IEEE, 2016. 4. Zahid, **Haleem Farman** and Huma Javed, “Adaptation of Graph theory in Cluster Head Selection for VANETs” In 1st International Conference on Wireless Sensor Networks for Developing Countries (WSN4DC’13), Jamshoro Pakistan, 24-26 April. |

# keynote/Track chair/tpc

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| 1. **Keynote Speaker** at 2021 IEEE 93rd Vehicular Technology Conference (VTC2021-spring), 25th – 28th April, 2021, Virtual Conference. 2. **Internet of Things Track Committee member** at IEEE First International Conference of Smart Systems and Emerging Technologies (SMARTTECH-2020), 3-5th Nov, 2020, Riyadh Saudi Arabia**.** 3. **Track chair** for session “Underwater and Optical Communication” at “The 12th International Conference on Ubiquitous and Future Networks August 17th – 20th, 2021, Jeju Island, Korea & Virtual Conference. |

# Books/chapters

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| 1. Khan, Murad, Bilal Jan, and **Haleem Farman**. *Deep Learning: Convergence to Big Data Analytics*. **Singapore: Springer**, 2019. 2. Ahmad, Jamil, **Haleem Farman**, and Zahoor Jan. "*Deep learning methods and applications*." In Deep Learning: Convergence to Big Data Analytics, pp. 31-42. Springer, Singapore, 2019. 3. Bilal Jan, **Haleem Farman**, and Murad Khan. "*Introduction*." In Deep Learning: Convergence to Big Data Analytics, pp. 1-12. Springer, Singapore, 2019 (Chapter) |

# Research Supervision

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| **DOCTORAL**   1. **Abizar Khalil**, *Trust and privacy preservation in Vehicular Adhoc Networks*. (In-progress) 2. **Sifat Ullah,** *Favorable conditions for disease detection in fruit plants under true field conditions* (In-progress) 3. **Yasir Shahzad,** *Optimized Predictive Framework for Healthcare Through Deep Learning*, (In-progress)   **MASTERS**   1. **Habab Jan**, *The issues, challenges and solution for smart health care monitoring of elderly patients in developing countries* (Completed) 2. **Yasir Ahmad**, *Energy Efficient Mobile MODLEACH in Wireless Sensor*. (Completed) 3. **Raza Baksh,** *Performance Enhancement of Dense IEEE 802.11 WLAN by Scaling Minimum Contention Window* (Completed). 4. **Jehangir Khan**, *A New Backoff Algorithm to Improve Distributed Coordination Function Performance in Wireless LANs* (Completed) 5. **Bilal Khan**, *Content based retrieval of x-ray scans utilizing visual saliency and deep features* (In-progress) 6. **Shabeer Rehman**, *Multi-Modal Detection of Interesting Events in Cricket Sports Videos* (In-progress) 7. **Tariq Hussain**, *Learning Convolutional Hash Codes for Endoscopic Image Retrieval* (In-progress) |

# REsearch collaboration:

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| 1. Prof. Dr. Anis Koubaa and Dr. Zahid Khan, Robotics and Internet of Things Lab, College of Computer and Information Sciences, Prince Sultan University, Riyadh, Saudi Arabia. 2. Dr. Samir Ouchani, Research and innovation laboratory, LINEACT CESI, France. 3. Dr. Murad Khan, Wireless and Mobile Internet Laboratory, Kyungpook National University, Daegu, South Korea. 4. Dr. Khan Muhammad, Department of Software, Sejong University, Seoul 143-747, South Korea. 5. Dr. Bilal Jan, Department of Computer Science, FATA University, Kohat, Pakistan. 6. Dr. Muazzam Ali Khattak, Department of Computer Science, Quad-i-Azam University, Islamabad, Pakistan. 7. Dr. Hassan Ali Khattak, School of Electrical Engineering and Computer Science, National University of Sciences and Technology (NUST), Islamabad, Pakistan. |

# TRAININGS/SEMINARS/WORKSHOPS ORGANIZED:

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| 1. Organized 03 Days **Flutter Bootcamp** at the Department of Computer Science, Islamia College Peshawar, held on 28th – 30th March 2022. 2. **Digital Employability** workshop at Islamia College Peshawar from 27th – 30th Dec, 2021 in collaboration with Khyber Pakhtunkhwa Information Technology Board. 3. One day workshop on “**Entrepreneurship: How to start a business**” under NAVTTC Kamyab Jawan program, Pakistan at the Department of Computer Science, Islamia College Peshawar. 4. One day seminar on “**Freelancing Opportunities**” under NAVTTC Kamyab Jawan program, Pakistan at the Department of Computer Science, Islamia College Peshawar. 5. One day workshop on “**Resume Building**” under NAVTTC Kamyab Jawan program, Pakistan at the Department of Computer Science, Islamia College Peshawar. 6. One day workshop on “**Growth Hacking**” under Google Developer Student Club at Islamia College Peshawar. 7. One day workshop on “**Cloud Study Jam**” under Google Developer Student Club at Islamia College Peshawar. 8. One day workshop on “**Flutter Interact**” under Google Developer Student Club at Islamia College Peshawar. 9. Chief Organizer of **ICUETC-18** at Department of Computer Science, Islamia College Peshawar 10. One day Seminar on “**WSN: An** **Emerging Smart Technology**”, held on 28th May 2015 at Department of Computer Science, University of Peshawar, Pakistan. 11. Organizer **ICUETC-15** at Department of Computer Science, Islamia College Peshawar 12. Organizer **ICUETC-14**, at Department of Computer Science, Islamia College Peshawar |

# Trainings/SEMINARS/WORKSHOPS Attended:

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| 1. Three days training on “**Recent Advances in Apiculture and Domestication of Turkish Modern Bee Hives in Pakistan**” organized by Kohat University of Science and Technology, PARC Islamabad and TIKA Turkey, 8-10 June 2021. 2. Two days workshop on “**Futuristic Smart Cities**” as a speaker at Kohat University of Science and Technology, Kohat, Pakistan. 3. Training Workshop on “**Capacity building of Staff of HEIs/HEC, training on IT Management**”, organized by IM Science Peshawar and Higher Education Commission Pakistan, 4-7th May, 2015. 4. Workshop on “**Learning outcome for the faculty of Universities of KPK, AJK and Islamabad**” organized by HEC, Pakistan, Baragali Summer Campus, 28-29th May, 2014. 5. Symposium on “**Emerging technologies in information technology**”, Baragali Summer Campus, University of Peshawar, Aug 25-27th 2013. 6. One day tutorial on “**Contiki and Cooja**”, organized by Mehran University of Engineering and Technology, Jsamshoro Pakistan, 25th April 2013. 7. Training on “**Professional Competency Enhancement Program for Teachers (PCEPT)**” organized by National Academy of Higher Education, HEC Pakistan, 09th July to 09th Aug, 2012. 8. **Video Conferencing** training at Islamabad, organized by Higher Education Commission, Pakistan. 9. Training on **CCNA** at Corvit Peshawar, Pakistan. 10. In House training on **Siemens BTS and Microware (PDH, SDH) Equipment** at Nokia Siemens Network, Karachi, Pakistan. |

# Reviewer:

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| Has reviewed many articles for different reputed journals and conferences, few of them are listed here.   1. IEEE Computer Networks 2. IEEE Sensors Journal 3. Sustainable Cities and Societies (Elsevier) 4. Journal of Grid Computing (Springer) 5. IEEE Access 6. IEEE Network Magazine 7. IEEE vehicular Technology Conference |

# Member of societies:

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| 1. Member of Board of Advisor at Microsoft Learn Student Ambassador- Islamia College Peshawar Chapter. 2. Member of Google Developer Student Club- Islamia College Peshawar. 3. Member of Board of Governors at CIMS foundation. |

# References:

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| 1. **Prof. Dr. Shah Khusro,** Chairman, ([Khusro@uop.edu.pk](mailto:Khusro@uop.edu.pk)), Department of Computer Science, University of Peshawar, Pakistan 2. **Dr. Muazzam Ali Khattak,** Professor ([Muazzam.khattak@qau.edu.pk](mailto:Muazzam.khattak@qau.edu.pk)), Department of Computer Science, Quaid-i-Azam University Islamabad, Pakistan |