



## **Academic Qualification**

[2008-2011] International Islamic University, Islamabad, Pakistan  
**PhD (Computer Science)**

[2005 - 2008] International Islamic University, Islamabad, Pakistan  
**Master of Sciences in Computer Science (MS (CS))**

[2001-2003] University of Arid Agriculture, Rawalpindi, Pakistan  
**Master in Information Technology (MIT)**

## **Trainings Provided**

Following trainings are provided at different Saudi and non Saudi universities and colleges

- **“Cybersecurity”**, A three weeks Cisco System’s content based training provided at College of Engineering and Computer Sciences, Qassim Private Colleges, Qassim, Saudi Arabia.
- **“Cloud Computing Security”** A three weeks training provided at College of Engineering and Computer Sciences, Qassim Private Colleges, Qassim, Saudi Arabia.
- **“Security of Wireless Networks”** A one week training provided at CoEIA, King Saud University, Saudi Arabia.
- **“Vehicular Ad-hoc Networks and Traffic Management During Hajj”**, A one week training provided at CoEIA, King Saud University, Saudi Arabia.
- **“Next Generation Networks Technologies”**, A 6 weeks training provided at University of Arid Agriculture, Rawalpindi, Pakistan.
- **“Research Methods”** A eight weeks training provided at International Islamic University, Islamabad, Pakistan.
- **“Wireless Communication”**, A two weeks training provided at International Islamic University, Islamabad, Pakistan.
- **“Network Security”**, A two weeks training provided at International Islamic University, Islamabad, Pakistan.

- “Professional Game Programming with Unity”, A one week training provided at Mustqbal University, Qassim Saudi Arabia.

## **Selected Journal Publications**

1. El-Sayed M. El-Kenawy, Seyedali Mirjalili, Sherif S. M. Ghoneim, Marwa Metwally Eid, Mohammed El-Said, **Zeeshan Shafi Khan**, Abdelhameed Ibrahim: Advanced Ensemble Model for Solar Radiation Forecasting Using Sine Cosine Algorithm and Newton's Laws. IEEE Access 9: 115750-115765 (2021).
1. Anwar Ghani, Syed Husnain A. Naqvi, Muhammad Sher, **Zeeshan Shafi Khan**, Imran Khan, Muhammad Saqlain, "Energy efficient communication in body area networks using collaborative communication in Rayleigh fading channel", Telecommunication Systems 63(3): 357-370 (2016).
2. **Zeeshan Shafi Khan**, Mohammed Morsi Moharram, Abdullah Alaraj, and Farzana Azam, “A Group Based Key Sharing and Management Algorithm for Vehicular Ad Hoc Networks,” The Scientific World Journal, vol. 2014, Article ID 740216, 8 pages, 2014. doi:10.1155/2014/740216.
3. **Zeeshan Shafi Khan**, Khalid Rashid, Fahad Bin Muhaya, Qutbuddin, Aneel Rahim, “Realization of Call-Back Authentication (CBA) for secure web to cellular phone SMS communication”, Computers and Mathematics with Applications 60 (2010) pp. 198\_208.
4. Farzana Azam, **Zeeshan Shafi Khan**, Muhammad Sher, Khaled Alghtaber, Muhammad Khurram Khan “Attack Containment in Mobile Ad-hoc Network through Fair Distribution of Processing Resources” Telecommunication Systems Journal, DOI: 10.1007/s11235-013-9754-6.
5. **Zeeshan Shafi Khan**, Mohammed Morsi Moharram, Abdullah Alaraj, and Farzana Azam, “A Group Based Key Sharing and Management Algorithm for Vehicular Ad Hoc Networks,” The Scientific World Journal, vol. 2014, Article ID 740216, 8 pages, 2014. doi:10.1155/2014/740216.
6. Aneel Rahim, Muhammad Sher, **Zeeshan Shafi Khan**, Fahad Bin Muhaya, Editorial "Secure Multimedia Communication in Vehicular Adhoc Network". Multimedia Tools Appl. 66(2): 161-164 (2013).
7. Aneel Rahim, **Zeeshan Shafi Khan**, “Editorial”. Telecommunication Systems 52(4): 2147-2148 (2013).

8. Aneel Rahim, **Zeeshan Shafi Khan**, Fahad Bin Muhaya, Muhammad Sher, Muhammad Khurram,” Information Sharing in VANETs”, International Journal of Computers, Communications & Control (IJCCC), Vol. V (2010), No. 5, pp. 884-891, 2010.
9. **Zeeshan Shafi Khan**, Khalid Rashid, Muhammad Khurram Khan, Muhammad Sher, “An Extended Intrusion Detection and Prevention System for IP Multimedia Subsystem” Information, Volume 14, Issue 1, 2011.
10. **Zeeshan Shafi Khan**, Muhammad Sher, Khalid Rashid “Extended Role of Presence To Reconnect The Pending IMS Call Setup Session” Information Journal, Volume 16, Issue 3 (A), 2013.
11. **Zeeshan Shafi Khan**, Nazish Munawar, Muhammad Sher, Khalid Rashid, Aneel Rahim, “An Extended Push to Multimedia Service for IP Multimedia Subsystem” International Journal of Innovative Computing, Information and Control, vol 7, issue 10, October 2011.
12. Aneel Rahim, **Zeeshan Shafi Khan**, Fahd Bin Muhaya, Muhammad Sher, ” Sensor based Framework for Secure Multimedia Communication in VANETs” Sensors 2010, 10(11), 10146-10154; doi:10.3390/s101110146.
13. **Zeeshan Shafi Khan**, Muhammad Sher, Khalid Rashid, Aneel Rahim, “Presence Based Conditional Call Setup for IP Multimedia Subsystem”, International Journal of Physical Sciences Vol. 5(8), pp. 1248-1255, 4 August 2010.
14. **Zeeshan Shafi Khan**, Muhammad Sher, Khalid Rashid, Aneel Rahim, “A Three Layer Secure Architecture for IP Multimedia Subsystem Based Instant Messaging”, Information Security Journal: A Global Perspective, ISSN: 1939-3547, Volume 18, Issue 3, 2009 , pages 139 – 148.
15. Aneel Rahim, Muhammad Sher, **Zeeshan Shafi Khan** “Performance evaluation of Broadcast Approaches in VANETS” , Indian Journal of Science and Technology ISSN: 0974- 6846, Vol.2 No. 10, Oct 2009.
16. **Zeeshan Shafi Khan**, Saira Shokat, Aneel Rahim, Muhammad Sher, Khalid Rashid “Ordering and Organization of SIP Requests within IMS Core by Using Load Awareness and Priority” International Journal of Recent Trends in Engineering, , Vol 2, Issue 3 pp: 24-26.

17. Aneel Rahim, Imran Ahmad, **Zeeshan Shafi Khan**, Muhammad Sher, “A Comparative Study Of Mobile And vehicular Adhoc Networks” I International Journal of Recent Trends in Engineering, ISSN: 1797-9617, Vol 2, Issue 3 pp: 125-127.
18. Aneel Rahim, Fahad Bin Muhaya, Zeeshan Shafi Khan, M. A. Ansari, Muhammad Sher. Enhanced Relevance-Based Approach for Network Controls. Informatica (Slovenia), 2010: 223~226.
19. Khalid Mahmood, Muhammad Zubair, Zeeshan Shafi Khan, Fazeel-Ud-Din Faraz, “Efficient Resource Preservation through Data Compression in Wireless Sensor Networks”, J. Basic. Appl. Sci. Res., 3(9) 612-617, 2013.

### **Conference Proceedings**

20. Ibrahim Ahmed I. AlMallohi, Ahmed Saad M. Alotaibi, Rahaf Alghafees, Farzana Azam, Zeeshan Shafi Khan, “Multivariable based checkpoints to mitigate the long range attack in proof-of-stake based blockchains”, International Conference on High Performance Compilation, Computing and Communications (HP3C-2019), March, 2019, China.
21. Zeeshan Shafi Khan, Farzana Azam, Abdulah Alaraj, “Data Authenticity In Vehicular Ad-Hoc Networks Through Trust Based Blockchain”, 13th International Conference for Internet Technology and Secured Transactions (ICITST-2018), 10-13 December, 2018, Cambridge, UK.
22. Zeeshan Shafi Khan, Abdullah Alaraj, Nithya Rekha, Muhammad Zubair, Farzana Azam, “Weighted Priority Based Signatures' Batch Verification Scheme in Vehicular Ad-Hoc Networks”, International Conference on Communication Systems and Applications, 15-17 March, 2017, Hong Kong.
23. Kiran Sultan, Bassam Zafar, Muhammad Zubair, Zeeshan Shafi Khan, “Performance Enhancement of Underlay Cognitive Radio Networks by Intelligent Multiple Relay Selection”, Third International Conference on Mathematics and Computers in Sciences and in Industry (MCSI), 27-29 August 2016, Greece.

24. **Zeeshan Shafi Khan**, Muhammad Sher, Khalid Rashid “Presence Based Secure Instant Messaging Mechanism for IP Multimedia Subsystem”, The 11th International Conference on Computational Science and Its Applications (ICCSA 2011), 2011, Spain.
25. M. Zubair Rafique, **Zeeshan Shafi Khan**, Muhammad Khurram Khan, Khaled Alghtbar “Securing IP-Multimedia Subsystem (IMS) Against Anomalous Message Exploits by using Machine Learning Algorithms” 8th International Conference on Information Technology: New Generations, April 11-13, 2011 Las Vegas, USA.
26. **Zeeshan Shafi Khan**, Nabila Akram, Khaled Alghtbar, Muhammad Sher, Rashid Mehmood “Secure Single Packet IP Traceback Mechanism to Identify the Source of Spoofed IP Users”, The 5th International Conference for Internet Technology and Secured Transactions (ICITST-2010), November 8-11, 2010, London, UK.
27. **Zeeshan Shafi Khan**, Khaled Alghtbar, Muhammad Sher, Khalid Rashid, “Issues of Security and Network Load Balancing in Presence – A Survey”, International Conference on Security Technology, 2010, Jeju, South Korea.
28. **Zeeshan Shafi Khan**, Aneel Rahim, Fahad Bin Muhaya, “A Mechanism of Handling Internal Threats of IMS Based Push to Talk and Push to Multimedia Services”, IEEE International Workshop on Advances in Multimedia Security (AIMS 2010), 2010, South Korea.
29. Bashir Ahmed, **Zeeshan Shafi Khan**, Adeel Akhtar, "An Efficient Modified Hybrid Adaptive Intra Cluster Routing Mechanism for Wireless Sensor Networks", IEEE 2010 International Conference on Wireless Communication and Sensor Computing (ICWCSC), 2010, Tamil Nadu, India.
30. **Zeeshan Shafi Khan**, Muhammad Sher, Khalid Rashid, Imran Razzak, “Towards Security and Enrichment of the IP Multimedia Subsystem Based Multiparty Conference” International Conference on Communication Systems and Applications, 18-20 March, 2009, Hong Kong.

### **Best Paper Award**

- Bashir Ahmed, Zeeshan Shafi Khan, Adeel Akhtar, "An Efficient Modified Hybrid Adaptive Intra Cluster Routing Mechanism for Wireless Sensor Networks", IEEE 2010 International Conference on Wireless Communication and Sensor Computing (ICWCSC), India, 2010

## **Supervision of Master Thesis**

1. Nazish Munawar, "Choice Casting in IP Multimedia Subsystem Based Push to Multimedia Services", 2010
2. Isma Munir, "Query Rejection Techniques and Impact of Attacker's Position in Mobile Ad-hoc Networks", 2010
3. Nabila Akram, "ISP Identity Based Secure Single Packet IP Trace back", 2010
4. Saira Shokat, "Efficient Scheduling Architecture for Provision of Quality of Service in IP Multimedia Subsystem", 2010
5. Bashir Ahmed, "An energy efficient Adaptive Routing Technique for Sensor Networks", 2013
6. Faraz Siddiqui, "A new Technique for Congestion Aware Routing in Low Earth Orbit (LEO) Satellite Networks", 2013
7. Sehzaad Asif, "A Flexible and Efficient Aggregation Framework For Wireless Mesh Network", 2014
8. Rukhsana Kousar, "A Secure Data Sharing Technique for Low Memory Cell Phone Users", 2015
9. Sohail Anjum, "A Topology Hiding Secure MPLS Based Routing Mechanism", 2015
10. Tariq Mehmood Niazi, "A mechanism to achieve accuracy and privacy in Data Mining", 2016

## **Special Issues Conducted /Guest Editor**

- Special Issue on Secure Multimedia Communication in Vehicular Adhoc Networks, Multimedia Tools and Application Journal, ISSN 1573-7721
- Special Issue on Security of Vehicular Ad-hoc Networks, Telecommunication System Journal, ISSN 1572-9451
- Special Issue on Wireless Communication, "Information - An International Interdisciplinary Journal) ISSN 1343-4500(print), ISSN 1344-8994(electronic)

## **Workshop Chaired**

- First International Workshop on Wireless and Network Security (WNS 2010), 2010, Japan.
- Second International Workshop on Trust Management in P2P System (IWTMP2PS 2011) 2011.
- Workshop on Security and Privacy in Social Networks (SPSN 2011)

## **Awards**

- Best Teacher Award (Year 2018), Mustaqbal University, Qassim Saudi Arabia.
- Best Researcher Award (Year 2016), Mustqbal Univerisity, Qassim Saudi Arabia