

Abdul Razaque, PhD (Computer Science and Engineering)
(USA Permanent Resident)

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- **Objective:** To work with a reputed institution as a Professor, which will provide me a good platform to utilize my teaching, research & administration skills and will help me to grow my career.

➤ **Teaching Interests**

I am proficient and confident in teaching interdisciplinary at undergraduate, and graduate level courses include, but not limited:

- Data Science,
- Data Analysis,
- Big Data,
- Machine Learning,
- Deep Learning,
- Cyber Physical Security,
- Advanced wireless sensor networks,
- Computer network & network security,
- Advanced computer architecture,
- Software engineering,
- Theory of computation,
- Cloud computing and security issues,
- Data mining,
- Programming language concepts,
- Simulation and mathematical modeling,
- Advance analysis of algorithms and pattern designs.
- Programming languages includes C++, java, C# and PHP.

➤ **Research Interests**

My research interest includes following areas, but not limited:

- Machine Learning,
- Data Science,
- Data mining,
- Cyber Physical System,
- Wireless sensor networks,
- EDA algorithms,
- Network security,
- Artificial intelligence,
- Cloud computing and its security issues,

- Ambient intelligent, pipelining,
- Human Computer Interaction,
- programming language.
- Since last 10 years, I have been working on designing and implementing medium access control protocols for wireless sensor networks, models for ambient intelligent, transport and network layer issues, Human Computer Interaction, privacy-preserving models for cloud computing and currently developing the programming models for cyber physical system, mobility, scalability and energy efficiency.

➤ **Education**

- Postdoctoral Scholar, Department of Electrical and Computer Engineering, **University of Arizona, USA, March 07, 2015-August 16, 2015.**
- PhD in Computer Science & Engineering, **University of Bridgeport, Bridgeport, CT, USA, January 25, 2011- 6 March, 2015.**

➤ **Professional Experience**

- **Full Professor, Computer Engineering and Information Security**, International IT University, Kazakhstan; September 1, 2019- June 30, 2021.
- **Research Associate Professor**, New York University, USA; September 1, 2018- August 31, 2019.
- **Assistant Professor, New York Institute of Technology (NYIT), USA** since August 25, 2016-31 August, 2018.
- **Assistant Professor**, Cleveland State University; 17 August.2015- 31 July.2016.
- **Research Associate and Instructor**, University of Bridgeport; 15 Jan 2011– 8 August 2015.
- **Project IT Director**, The project of United Nations Educational, Scientific and Cultural Organization and World Bank; Jan. 2009– Dec 2010.
- **Network IT Director, Pakistan telecommunication Corporation Limited (PTCL), Pakistan:** December, 2005- Dec 2008.
- **Computer Programmer, AT&T, Cleveland USA**, April 2002- December 2005.

➤ **Technical Skills**

Programming:

C++, Java, J-Query, PHP,
C# and ASP.net, Python, Go

Operating System:

Linux Redhat-8, 9 and 10, UNIX
2013 Server, Windows NT/MS DOS
Ubuntu, Fedora.

Network Simulators:

Ns2, NS3, Opnet, Qualnet
Omnet++, UWSIM, JSIM,
Wireshark, MATLAB,
GreenCloud, GreenSim

Hardware Platforms:

ARM, MIPS, and PA-RISC

➤ **Certifications:**

- CCNA: Cisco Certified Network Associate
- CCNP: Cisco Certified Network Professional,
- MCP: Microsoft Certified Professional
- MCSA: Microsoft Certified Systems Administrator
- MCTS: Microsoft Certified Technology Specialist
- MCSE: Microsoft Certified Solutions Expert
- CISM: ISACA Certified Information Security Manager
- ISO 27001:2016 Advance course: IS- Information Security Management Systems
- Certified IPP: Initiating and Planning Projects (University of California, Irvine, USA)

- Certified FAFE: Forensic Accounting and Fraud Examination (West Virginia University, USA)

➤ **Research Grants (Medium-to-Large Funded Projects): Total Funding: US\$ 3,548,270.00**

- **Co-Investigator:** Cybersecurity Detection, Protection and Forensic Frameworks: **National Science Foundation (NSF), USA, \$800000 [09/08/2019- 07/31/2021]. Grant No. 06267/2019.**
- **Principal Investigator:** Cyber-Social Behavior Analysis, **National Science Foundations (NSF), USA, 500000 Approved [10/10/2019- 12/09/2020]. Grant No. NCSTE-026/2019.**
- **Principal Investigator:** Secure Data Aggregation Model for Wireless Body Area Sensor Networks (**Partially Supported by ICT: US\$ 17200**) [10/12/2017].
- **Principal Investigator:** Security practices applied on agile methods during the development of Internet-of-things critical applications, (**National Science Foundation, USA**), (US-Brazil Collaboration cyber security project) **US\$300000**, Approved [02/22/2016- 12/30/2016]. **Grant No. EEC-0612/2016.**
- **Co-Investigator:** Privacy preserving model for three stakeholders (CSU, CSP and TPA), National Science Foundation (NSF), USA, **\$1.3 Million**, Approved [02/18/2016- 08/17/2017]. **Grant No. SC-04867/2016.**
- **Co-Investigator:** Cognitive Unmanned Aerial Vehicles with Enhanced Performance and Security, **Ohio Federal Military Jobs Commission**, [02/06/2016 - 06/22/2016]: **US \$200000, Grant No. OFM-1067.**
- **Investigator**, Design and implementation of intelligent decision Model to automatically identify the nature of the environment, **National Institute of Health**, **\$75500**, Funded. [6/1/2013 - 10/31/2015]. **Grant No. NIH-2032.**
- **Leader**, Improving the QoS and dynamicity of the nodes in large-scale wireless sensor networks, sponsored by United States Agency for International Development (USAID), **US \$ 295500**, Funded. [10/2015]. **Grant No. USAID-0589.**
- **Investigator**, Location-deciding model and handling the mobility of nodes for WSNs, funded by National Science Foundation, **US\$ 32750**, Funded. [08/13/2015]. **Grant No. 298/2015**
- **Investigator**, Load-balancing and prolonging the network lifetime, National Science Foundation (NSF), USA, **US\$15000**, Funded. [10/28/2013]. **Award Number: 140470, (Partially funded).**

➤ **Research Grants (Small Projects)**

- **Advisor**, Security and Efficiency of unmanned aerial **vehicle** (UAV), NYIT Global Funding, **US\$4178**, June-August, 2017.
- **Co-Advisor**, Wireless transmission of images transmitted from cameras placed on streetlights, **US\$5000, Funded by GE Lightening/ Cleveland State University, August 2015- May 2016.**
- **Advisor**, Dual Burner Spark Ignition Controller, **US\$5000, Funded by Channel Products. August 2015- May 2016.**
- **Advisor**, Humidity and oil mist sensor, **US\$5000, Funded by Orbital Research, August 2015- May 2016.**

❖ **Research Publications**

➤ Books

1. **Abdul Razaque**,” User Biometrics Authentication: **ISBN: 978-1-79474-859-0**:
2. **Abdul Razaque**, Amer Al-rahayfeh,” Mobile Malware Infringement and detection: **ISBN: 9781393454953, dated: 11 October, 2019:** <https://www.kobo.com/ww/en/ebook/mobile-malware-infringement-and-detection>
3. **Abdul Razaque**, Fathi Amsaad, Abrar Alajlan, “**Cryptographic Method**”. **ISBN: 978-13934-479-1**. WestBow Press Thomas Nelson and Zondervan.
4. **Abdul Razaque**,” **Essential of Computer Networks: ISBN: 978-1-79474-941-2** WestBow Press Thomas Nelson and Zondervan.

➤ Journal Publications

5. **Abdul Razaque***, Abrar M. Alajlan, Noussaiba Melaoune, Munif Alotaibi, Bandar Alotaibi, Issabekov Dias, O. A. D. Ammar, Salim Hariri, and Zhao Chenglin. "Avoidance of Cybersecurity Threats with the Deployment of a Web-based Blockchain-Enabled Cybersecurity Awareness Model." **MDPI Applied Sciences**, 2021:[**Indexed in Scopus, Web of Science, SCIE, Ei Compendex, ISI Index; Q2**]. (2021): (Yet to appear).
6. **Abdul Razaque**,Fathi Amsaad, Saraju P. Mohanty, Salim Hariri, Mohamed Mahmoud ,Musbah Abdulgader, and Duisen Gulsezim, "Human Centric Mobility-Aware Cyber-Physical System for Efficient and Secure Healthcare” **IEEE Internet of Things Journal**, 2021 (Accepted: Yet to appear).): [**Indexed in Scopus, Web of Science, SCIE, Ei Compendex, ISI Index; Q1: Impact Factor: 9.936**].
7. Altaf, Rabail, **Abdul Razaque***, Mohsin Hussain, Asghar Ali Memon, Imran khan Memon, Nargis Pirya, and Abdur Rehman. "The Role of Radiology (X-Ray versus Computed Tomography) in Medicolegal Cases Presented at a Tertiary Care Hospital in Pakistan." *Pakistan Journal Of Neurological Surgery* 25, no. 2 (2021): 257-262.
8. Oad, Ammar, **Abdul Razaque***, Askar Tolemyssov, Munif Alotaibi, Bandar Alotaibi, and Zhao Chenglin. "Blockchain-Enabled Transaction Scanning Method for Money Laundering Detection." **MDPI Journal on Electronics**, 2021:[**Indexed in Scopus, Web of Science, SCIE, Ei Compendex, ISI Index; Q1**]. (2021).
9. **Abdul Razaque***, Mohamed Ben Haj Frej, Muder Almi’ani, Munif Alotaibi and Bandar Alotaibi, “ Improved Support Vector Machine Enabled Radial Basis Function and Linear Variants for Remote Sensing Image Classification” **MDPI Journal on Sensors**, 2021:[**Indexed in Scopus, Web of Science, SCIE, Ei Compendex, ISI Index; Q1**].
10. Almiani, Muder, Alia AbuGhazleh, Yaser Jararweh, and **Abdul Razaque**. "DDoS detection in 5G-enabled IoT networks using deep Kalman backpropagation neural network." **Springer Journal on International Journal of Machine Learning and Cybernetics** (2021): 1-13:[**Indexed in Scopus, SCIE, Ei Compendex, ISI Index; Q1**].
11. **Abdul Razaque**, Moayad Aloqaily, Muder Almiani, Yaser Jararweh, and Gautam Srivastava. "Efficient and reliable forensics using intelligent edge computing." **Elsevier Journal on Future Generation Computer Systems** (2021): [**Indexed in Scopus, SCIE, Ei Compendex, ISI Index; Q1**].
12. Rizvi, Syed, John Mitchell, **Abdul Razaque**, Mohammad R. Rizvi, and Iyonna Williams. "A fuzzy inference system (FIS) to evaluate the security readiness of cloud service providers." **Journal of Cloud Computing** 9, no. 1 (2020): 1-17:): [**Indexed in Scopus, SCIE, Ei Compendex; Q2**].
13. ***Abdul Razaque**, Fathi Amsaad, Salim Hariri, Marwah Almasri, Syed S. Rizvi, Mohamed Ben Haj Frej, “Enhanced Grey Risk Assessment Model for Support of Cloud Service Provider”, **IEEE Access Journal** (2020): [**Indexed in Scopus, ET Inspec, Ei Compendex; Q1**].

14. Khan, Rafeah Rafeah, Nuzhat Irfan Malik, and ***Abdul Razaque**. "Imaging of Pulmonary Post-Tuberculosis Sequelae." *Pakistan Journal of Medical Sciences* 36, no. 1 (2020): **:[Indexed in Science Citation Index Expanded; Q2]**.
15. **Abdul Razaque**, Quratulain Minhas, Qaisar Abass Naqvi, and Waleed Iqbal Waseer. "Analysis of the Goos-Hänchen shift for a planar dielectric-chiral interface excited by fractional dual fields." *Elsevier Journal on Optik*; 216 (2020): 164659. **[Science Citation Index, Web of Science, Scopus Ei Compendex; Q1]**.
16. Almiani, Muder, Alia AbuGhazleh, Amer Al-Rahayfeh, Saleh Atiewi, and **Abdul Razaque**. "Deep Recurrent Neural Network For IoT Intrusion Detection System." *Elsevier Journal on Simulation Modelling Practice and Theory* (2020): 102031):**[Indexed in Scopus, Web of Science, SCIE; Q1]**.
17. ***Abdul Razaque**, Fathi Amsaad, Meer Jaro Khan, Salim Hariri, Shujing Chen, and Xingchen Ji. "Survey: Cybersecurity Vulnerabilities, Attacks and Solutions in the Medical Domain." *IEEE Access* (2019): **[Indexed in Scopus, ET Inspec, Ei Compendex; Q1]**.
18. ***Abdul Razaque**, Syed Rizvi, Meer Jaro Khan, Muder Almiani , Amer Al Rahayfeh” State-of-Art Review of Information Spreading Models and their Impact on Social Network Vulnerabilities” *Elsevier journal of king saud university - computer and information sciences*, 2019: **[Indexed in Scopus, Web of Science, ESCI, Inspec, Ei Compendex; Q1: Impact Factor: 13.473]**.
19. Muder Almiani , Amer Al Rahayfeh, Abu ghazaleh, **Abdul Razaque**, “Cascaded hybrid intrusion detection model based on SOM and RBF neural networks”, **Concurrency and Computation: Practice and Experience**, 2019: **[Indexed in Scopus, COMPENDEX (Elsevier), ESCI, Web of Science, Inspec (IET); Q2]**.
20. Amer Al-Rahayfeh, **Abdul Razaque**, Yaser Jararweh. and Muder Almi’ani, “Location-based lattice mobility model for wireless sensor networks”,*Sensors* **2018**, 18(12), 4096: **[Indexed in Web of Science, Scopus, EI, PubMed, IET and Scopus; Q2]**.
21. Uddin, Muhammad Fahim, Syed Rizvi, and **Abdul Razaque**. "Proposing Logical Table Constructs for Enhanced Machine Learning Process." *IEEE Access Journal* (2018): **[Indexed in Scopus, ET Inspec, Ei Compendex; Q1]**.
22. ***Abdul Razaque**, and Syed S. Rizvi. "Secure data aggregation using access control and authentication for wireless sensor networks." *Elsevier Journal on Computers & Security* (2017): **:[Indexed in Scopus, CSI, Engineering Index, SCIE, INSPEC; Q1]**.
23. ***Abdul Razaque**, and Syed S. Rizvi. "Privacy preserving model: a new scheme for auditing cloud stakeholders." *Springer Journal of Cloud Computing* 6, no. 1 (2017): 7: **[Indexed in Scopus, SCIE, EI-Compendex; Q2]**.
24. ***Abdul Razaque**, Syed S. Rizvi, Meer Jaro Khan, Qassim Bani Hani, Julius P. Dichter, and Reza Meimandi Parizi. "Secure, and quality-of-service-supported service-oriented architecture for mobile cloud handoff process." *Elsevier Journal on Computers & Security* 66 (2017): 169-184: **[Indexed in Scopus, CSI, Engineering Index, SCIE, INSPEC; Q1]**.
25. Almiani, Muder, **Abdul Razaque**, Toufik Aidja, and Ayman Al-Dmour. "Context-aware latency reduction protocol for secure encryption and decryption." *International Journal of High Performance Computing and Networking* 12, no. 3 (2018): 251-260. **Inderscience Publisher: [Indexed in ACM Digital Library, cnpLINKer (CNPIEC) DBLP Computer Science Bibliography, Expanded Academic ASAP (Gale); Q2]**;
26. Sudha Narendrakumar, **Abdul Razaque** , Muder Almiani, Varil Patel, Syed.S.Rizvi” Token security for Internet of Things”, *Int. J. of Embedded Systems (IJES)*, **Inderscience Publisher: [Indexed in Scopus, Compendex, ESCI; Q2]**.
27. ***Abdul Razaque**, Ahmad Haroon, Manoj kumar, Gullapalli Amulya, Tariq Soomro, ”Smart bandwidth friendly buffer: Handling overflow in wireless Mesh networks”,*Journal of Independent Studies and Research (JISR) Computing* 2017: **[Indexed in Scientific Indexing**

Services, Directory of Research Journals Indexing, International Scientific Indexing, Academic Resource Index, CiteFactor; NA].

28. Ankur Mantri, ***Abdul Razaque**, Hiral Makwana, Parita Parekh, Tariq Soomoro, "Analytical Comparison of RSA and RSA with Chinese Remainder Theorem ", Journal of Independent Studies and Research (JISR) Computing 2017: [Indexed in Scientific Indexing Services, Directory of Research Journals Indexing, International Scientific Indexing, Academic Resource Index, CiteFactor; NA].
29. ***Abdul Razaque**, Syed S Rizvi, "Triangular Data Privacy-Preserving Model for Authenticating All Key Stakeholders in a Cloud Environment", **Elsevier Journal on Computer & Security journal**, Vol: 62, September 2016, PP: 328–347: [Indexed in Scopus, CSI, Engineering Index, SCIE, INSPEC; Q1].
30. Almiani, Muder, **Abdul Razaque**, and Ayman Al Dmour. "Privacy Preserving Framework to Support Mobile Government Services." International Journal of Information Technology and Web Engineering (IJITWE), **IGI Global**, 11, no. 3 (2016): 65-78: [Indexed in Scopus, Web of Science, Emerging Sources Citation Index (ESCI), Compendex (Elsevier Engineering Index), INSPEC; Q3].
31. Vellanki, M., S. P. R. Kandukuri, and ***Abdul Razaque**. "Node Level Energy Efficiency Protocol for Internet of Things." Journal of Theoretical and Computational Science 2016 (2016): [Indexed in Index Copernicus, Publons, EBSCO, Google Scholar; NA].
32. ***Abdul Razaque**, Bhanuteja Deekonda, Chandra Sekhara Chinta, Soumya Susna Iype, "Intelligent Healthcare Monitoring Using Radio Frequency Identification Detection", Journal on Communication on Applied Electronics (CAE), Foundation of Computer Science Vol:4, No:05, February 2016: [Indexed in Elsevier CiteuLike, Cross-ref, EBSCO, Google Scholar; NA].
33. Swapna Khandekar, Jingyuan Liang and ***Abdul Razaque**, "Security Analysis of a Social Payment App and Suggested Improvement" Journal on Communication on Applied Electronics (CAE), Foundation of Computer Science Vol:4, No:05, February 2016: [Indexed in Elsevier CiteuLike, Cross-ref, EBSCO, Google Scholar; NA].
34. Rizvi S, Karpinski K, **Abdul Razaque**. "Novel Architecture of Self-organized Mobile Wireless Sensor Networks. **Journal of Computing Science and Engineering**. 2015 Dec; 9(4):163-76: [Indexed in Scopus; Q3].
35. ***Abdul Razaque**, Khaled M Elleithy: Modular Energy Efficient and Robust Paradigms for Disaster-Recovery Process over Wireless Sensor Networks. **Sensors** 2015, 15(7), 16162-16195: [Indexed in Web of Science, Scopus, EI, PubMed, IET and Scopus; Q1].
36. ***Abdul Razaque**, Khaled Elleithy, "Nomenclature of Medium Access Control Protocols over Wireless Sensor Networks", **IETE Technical Review**, publisher: Taylor & Francis, 24 Jul 2015: [Indexed in Scopus, Web of Science, SCImago, SCIE, Ei Compendex; Q3].
37. ***Abdul Razaque**, and Khaled Elleithy. "Proportional Study of TCP Variants over Heterogeneous Wireless Networks." International Journal of Computer Applications 975 (2014): 8887: [Indexed in EBSCO, ProQuest's, Ulrichsweb, CiteSeerX, Google Scholar; Q4]: <https://www.scimagojr.com/journalsearch.php?q=15484&tip=sid>
38. ***Razaque, Abdul**, and Khaled Elleithy. "Robust Sink Failure Avoidance Protocol for Wireless Sensor Networks." International Journal of Advanced Research (2014), Volume 2, Issue 9, 721-731: [Indexed in Cross Ref, Pubon Cite Factor, Google Scholar; NA]
39. ***Abdul Razaque**, Khaled Elleithy: Low Duty Cycle, Energy-Efficient and Mobility-Based Border Node - MAC Hybrid Protocol for Wireless Sensor Networks. **Springer, the Journal of Signal Processing Systems**, 9/2014: [Indexed in Scopus, EI Compendex, SCImago, Science Citation Index Expanded (SciSearch); Q3].
40. ***Abdul Razaque**, Khaled M Elleithy: Energy-efficient border node medium access control protocol for wireless sensor networks. **Sensors**: 2014 01/2014; 14(3):5074-117: [Indexed in Web of Science, Scopus, EI, PubMed, IET and Scopus; Q1].

41. ***Abdul Razaque**, christian Bach, Nyembo Salama: Scientific methodology to foster theory and knowledge. International Journal of Engineering and technology. 01/2014; 7(1): **[Indexed in Cross Ref, Pubon Cite Factor, Google Scholar; NA]**
42. Fatma Almajadub, Eman Abdelfattah, **Abdul Razaque**: Deployment of Stream Control Transmission Protocol (SCTP) to Maintain the Applications of Data Centers. International Journal of Engineering & Technology. 08/2014; 06(04):273-280: **[Indexed in Cross Ref, Pubon Cite Factor, Google Scholar; NA]**
43. ***Abdul Razaque**, Khaled Elleithy: Automatic energy saving (AES) model to boost ubiquitous wireless sensor networks (WSNs). International Journal of Computers and Technology. 08/2013; 10(5):1569-1579: **[Indexed in Cite Factor, DBLP, Google Scholar; NA]**
44. Sajid Ali Khoso, Bahram Chachar, Gul Muhammad Baloch, Tehmina Sajid Khoso, Hasseina Sajid Khoso and ***Abdul Razaque**, 2014. Effect of Conventional Feed Resources on Production Performance of Balochi Lambs in Baluchistan. Pakistan Journal of Nutrition, 13: 129-133: **[Indexed in Combridge Scientific, SCIMAGO, Asian Digital Library, ASCI, Google Scholar; Q3]**.
45. Wafa Elmannai, ***Abdul Razaque**, Khaled Elleithy: Deployment of TCP University of Bridgeport (UB) to Control Law Enforcement Department over Wireless Mesh Network. Journal of Communications and Computer Engineering. 02/2013; 3(1):40-47: **[Indexed in Web of Science, Publons, Google Scholar; Q4]**.
46. ***Abdul Razaque**, Khaled Elleithy: Controlling Attacks of Rogue Dynamic Host Configuration Protocol (DHCP) to Improve Pedagogical Activities in Mobile Collaborative Learning (MCL) Environment. Journal of Communication and Computer Engineering. 02/2013; 3(1):15-29: **[Indexed in Web of Science, Publons, Google Scholar; Q4]**.
47. ***Abdul Razaque**, Khaled M. Elleithy: Restoring the privacy and confidentiality of users over Mobile collaborative learning (MCL) environment. CoRR abs/1309.4499 (2013): **[Indexed in NASA ADS, Google Scholar, Semantic Scholar; NA]**.
48. ***Abdul Razaque**, Christian Bach, Nyembo salama, Aziz Alotaibi: Fostering Project Scheduling and Controlling Risk Management. International Journal of Business and Society Vol. 3 No. 14 [Special Issue – July 2012]. **[Indexed in Scopus, ESCI, EBSCOhost, SJR , ProQuest; Q3]**.
49. ***Abdul Razaque**, Khaled M. Elleithy: Discovery of Malicious Attacks to Improve Mobile Collaborative Learning (MCL). Journal Cornell University Library CoRR abs/1208.2073(2012): **[Indexed in NASA ADS, Google Scholar, Semantic Scholar; NA]**.
50. Marwah Almasri, Khaled Elleithy, ***Abdul Razaque**: Analytical Study of Pre-congestion notification (PCN) techniques. International Journal of Computer Networks & Communications. 07/2012; 4(4):61-76: **[Indexed in Scopus, EBSCO, SJR , ProQuest; Q4]**.
51. ***Abdul Razaque**, and Khaled Elleithy. "Controlling attacks of rogue dynamic host configuration protocol (DHCP) to improve pedagogical activities in mobile collaborative learning (MCL) environment." Journal of Communications and Computer Engineering 3, no. 1 (2012): 15-29: **[Indexed in Web of Science, Publons, Google Scholar; Q4]**.
52. Wafa Elmannai, ***Abdul Razaque**, Khaled Elleithy: TCP-UB: A New congestion aware transmission control protocolvariant. International Journal of Computer Networks & Communications (IJCNC). 07/2012; 4(4):129-141: **[Indexed in Scopus, EBSCO, SJR , ProQuest; Q4]**.
53. ***Abdul Razaque**, Khaled Elleithy: Multi-frame Signature-cum Anomaly-based Intrusion Detection Systems (MSAIDS) to Protect Privacy of Users over Mobile Collaborative Learning (MCL). Journal of E-Technology Volume 3 Number 2 May 2012: **[Indexed in Scopus, EBSCO, Google Scholar; Q4]**.
54. Hussien F, Elleithy K, ***Abdul Razaque**. Implementation of Fault Tolerance Algorithm to Restore Affected Nodes in Scheduling Clusters. International Journal of Computer Networks

- & Communications. 2012 Jan 1;4(1):1: [Indexed in Scopus, EBSCO, SJR , ProQuest, Google Scholar; Q4].
55. Khaled Elleithy, ***Abdul Razaque**: Fostering of innovative usability testing to develop mobile application for mobile collaborative learning (MCL).CGST-AIML Journal, Volume 12, Issue 1, July 2012: [Indexed in DOAJ, Pro Quest , Cite Factor, Google Scholar; NA].
 56. Rebaz Maarroof, Eman AbdelFattah, Muneer Alshowkan, Ammar Odeh, ***Abdul Razaque**: Deployment of Law Enforcement Department Using Manhattan Mobility Model over Hybrid Network. IJECCE. 01/2012; 3(6):1268-1273: [Indexed in EBSCO, SJR , ProQuest, Google Scholar; NA].
 57. ***Abdul Razaque**, Khaled M. Elleithy: Interactive Prototypes to Foster Pedagogical Activities for Mobile Collaborative Learning Environment (MCLE). International Journal of Interactive Mobile Technologies (iJIM) 01/2012; 6:16-24: [Indexed in Scopus, IET Inspec EBSCO, Google Scholar; Q3].
 58. Khan, A. A., Awan, A. B., Qureshi, S. U., **Razaque, A.**, & Zafar, S. T. (2009). Large sharing networks and unusual injection practices explain the rapid rise in HIV among IDUs in Sargodha, Pakistan. Harm Reduction Journal, 6(1), 1: [Indexed in Scopus, Google Scholar; Q2].
 59. ***Abdul Razaque**, Wang Z: North China Province enjoys New NGN-based Multimedia Services from CNC”,Alcatel Telecommunications Review 12/2006; 3:269-272: [Indexed in SCI, Google Scholar; NA]: <https://dialnet.unirioja.es/ejemplar/141693>

➤ Book Chapters

1. Chandel, Sonali, Yuan Yuying, Gu Yujie, **Abdul Razaque**, and Geng Yang. "Chatbot: Efficient and Utility-Based Platform." In Science and Information, pp. 109-122. **Springer**, Cham, 2018.
2. **Abdul Razaque** and Khaled Elleithy, "Detection of Attacks for Restoring Privacy of Users to Improve Mobile Collaborative Learning (MCL) Over Heterogeneous Network," Communications in Computer and Information Science, **Springer**, Volume 294, 2012, pp 201- 216.
3. **Abdul Razaque**, Aziz Alotaibi, Khaled Elliethy: Location Based Overlapped Mobility Aware network Model. 01/2013: pages 1091-1102; **Springer** Journal, ISBN: 978-1-4614-3534-1.
4. **Abdul Razaque** and Khaled Elleithy, "Automated energy saving (AES) paradigm to support pedagogical activities over wireless sensor networks" Ubiquitous Computing & Ambient Intelligence (UCMAL-2012), **Springer/ACM**, December 3-5, 2012.
5. **Abdul Razaque**, and K. Elleithy. "Ambient Intelligence Paradigm to support pedagogical activities over wireless sensor networks,” Ubiquitous Computing and Ambient Intelligence (UCAmI)." **Lecture Notes, Springer**, (2012): 3-5.

➤ Conference Papers

6. Amsaad, Fathi, **Abdul Razaque**, Mohamed Baza, Seluck Kose, Sajal Bhatia, and Gautam Srivastava. "An Efficient and Reliable Lightweight PUF for IoT-based Applications." In 2021 IEEE International Conference on Communications Workshops (ICC Workshops), pp. 1-6. IEEE, 2021.
7. **Abdul Razaque**, Fathi Amsaad, Muder Almiani, Wan Xiaoya, Li Shiyu, Raouf Ganda, Majdi Rawashdeh, and Amer AlRahayfeh. "Efficient Context-aware File System Approach." In 2020 Seventh International Conference on Software Defined Systems (SDS), pp. 226-230. IEEE, 2020.
8. **Abdul Razaque**, Mohamed Ben Haj Frej, Dauren Sabyrov, Aidana Shaikhyn, Fathi Amsaad, and Ahmed Oun. "Detection of Phishing Websites using Machine Learning." In 2020 IEEE Cloud Summit, pp. 103-107. IEEE, 2020.

9. **Abdul Razaque**, Fathi Amsaad, Muder Almiani, Duisen Gulsezim, Mohammad Adnan, Almahamed, Ayman Al-Dmour, Meer Jaro Khan, Raouf Ganda, "Successes and Failures in Exploring Biometric Algorithms in NIST Open Source Software and Data", IEEE 2020 Seventh International Conference on Software Defined Systems (SDS), Paris.
10. Muder Almiani, **Abdul Razaque**, Ziqi Shen, Saleh Atiewi, Ge Yaqin, Mohammed Alweshah, Ayman Al-Dmour, Basel Magableh, "Android CompCache based on Graphics Processing Unit", IEEE 2020 Seventh International Conference on Software Defined Systems (SDS), Paris.
11. **Abdul Razaque**, Kalkamanova Kamila Myrzabekovna, Spanova Yerkezhan Magbatkyzy, Muder Almiani, Baktygulova Aray Doszhanovna, Awny Alnusair, "Secure Password-Driven Fingerprint Biometrics Authentication", IEEE 2020 Seventh International Conference on Software Defined Systems (SDS), Paris.
12. **Abdul Razaque**, Amanzholova Saule, Sagymbekova Azhar, "Protection of control frames from denial of service attacks during handover process", International Scientific and Practical Conference "Actual problems of information security in Kazakhstan", January 15, 2020, Almaty, Kazakhstan.
13. **Abdul Razaque**, Amanzholova Saule, Shevchenko Y. Samburskaya S. Fazyzbekova R. "School security system using RFID", International Scientific and Practical Conference "Actual problems of information security in Kazakhstan", January 15, 2020, Almaty, Kazakhstan.
14. **Abdul Razaque**, Mohamed Ben Haj Frej, Huang Yiming, and Yan Shilin. "Analytical Evaluation of k-Anonymity Algorithm and Epsilon-Differential Privacy Mechanism in Cloud Computing Environment." In 2019 IEEE Cloud Summit, pp. 103-109. IEEE, 2019.
15. Duisen Gulsezim, Seiitkaliyeva Zhansaya, **Abdul Razaque**, Yestayeva Ramina, Fathi Amsaad, Muder Almiani, Raouf Ganda, Ahmed Oun, "Two Factor Authentication using Twofish Encryption and Visual Cryptography Algorithms for Secure Data Communication", IEEE 2019 Sixth International Conference on Social Networks Analysis, Management and Security (SNAMS), Granada, Spain Oct 22-25, 2019.
16. **Abdul Razaque**, Kanapina Auau, Sailaubek Seitzhnovsa, Seitzhnov Seitzhnovsa, Turganov Vonagrut, Tsoy Danatsoy, Muder Almiani, "Pair Data Division Algorithm For Handling Data Classification", IEEE 2019 Sixth International Conference on Social Networks Analysis, Management and Security (SNAMS), Granada, Spain Oct 22-25, 2019.
17. **Abdul Razaque**, Fathi Amsaad, Ahmed Oun, Vorontsov Danil, Yergaliyev Askhat, Sabdenov Aidos, Akhmetov Alisher "Sentimental Behavior Detection over Textual Data Using Machine Learning" "Springer Second International Conference on Advanced Communication Systems and Information Security - ACOSIS 2019 (Scopus).
18. **Abdul Razaque**, Fathi Amsaad, Meer Jaro Khan, Amanzholova Saule Toksanovna, Ahmed Oun, "Privacy Preserving Medium Access Control Protocol for wireless Body Area Sensor Networks" IEEE National Aerospace & Electronics Conference (NAECON), 17 July 2019, USA
19. **Abdul Razaque**, Cai Mengjie, Lin Jiahui, Fathi Amsaad, Ahmed Oun, "Smart Phone as Toolbox for Height Measurement Smart Phone as Toolbox for Height Measurement" IEEE National Aerospace & Electronics Conference (NAECON), 17 July 2019, USA.
20. Nurbek Tastan, **Abdul Razaque**, Mohamed Ben Haj Frej, Amanzholova Saule Toksanovna, Raouf M. Ganda, Fathi Amsaad, "Burglary Detection Framework for House crime Control", The 19th International Conference on Computational Science and its Applications, Saint Petersburg, Russia July 1-4 2019.
21. Alia Abughazleh, Muder Almiani, Basel Magableh, **Abdul Razaque** "Intelligent Intrusion Detection Using Radial Basis Function Neural Network" IEEE 2019 Sixth International Conference on Software Defined Systems (SDS).
22. Muder Almiani, **Abdul Razaque**, Liu Yimu, Meer Jaro Khan, Tang Minjie, Mohammed Alweshah, Saleh Atiewi "Bluetooth Application-Layer Packet-Filtering For Blueborne Attack Defending" IEEE 2019 Fourth International Conference on Fog and Mobile Edge

Computing (FMEC).

23. **Abdul Razaque**, K. Gani, A. Karimkhanova , S.T. manzholova Y. Almassov, D. Sovetov, M. Tursynbai, “Comparative analysis of tracking objects using different methodologies”, 5th International Conference "Digital technologies in science and industry - 2019" (DTSI-2019), Almaty, Kazakhstan, 30-31 May, 2019. [Third Place].
24. **Abdul Razaque**, S.T.Amanzholova, O.S.Tokanov, R.Davletov, T. Molutbekov,A.Kantselyaristov, “Unlock security development for smart phone security improvement””,5th International Conference "Digital technologies in science and industry - 2019"(DTSI-2019), Almaty, Kazakhstan, 30-31 May, 2019.
25. **Abdul Razaque**, Amanzholova Saule, Amina Yessenalina, Daulet Sovetov, “Comprehensive review of virtual private network” 5th International Conference "Digital technologies in science and industry - 2019" (DTSI-2019), Almaty, Kazakhstan, 30-31 May, 2019.
26. Gulsezim Duisen, **Abdul Razaque**, Seiitkaliyeva Zhansaya, Yestayeva Ramina, Fathi Amsaad, “Two factor authentication using twofish encryption and visual cryptography algorithms for secure data communication”, 5th International Conference "Digital technologies in science and industry - 2019" (DTSI-2019), Almaty, Kazakhstan, 30-31 May,2019.
27. **Abdul Razaque** ,S.T. Amanzholova, G.A. Tolganbayeva, N. Rapilbek, B. Kemberbay, “A phone-based translation application”, 5th International Conference "Digital technologies in science and industry - 2019" (DTSI-2019), Almaty, Kazakhstan, 30-31 May, 2019.
28. **Abdul Razaque**, Muder Almiani, Amer Al-Rahayfeh, Basel Magableh, Ayman Al-Dmour, Meer Jaro Khan, “Fuzzy-GRA Trust Model for Cloud Risk Management” 2019 Sixth International Conference on Software Defined Systems (SDS).
29. **Abdul Razaque**, Yuxin Li, Qianqian Liu, Meer Jaro Khan, Ahmad Doulat, Muder Almiani and Ahmad Alflahat "Enhanced Risk Minimization Framework for Cloud Computing Environment", 15th ACS/IEEE International Conference on Computer Systems and Applications AICCSA 2018, October 28th -November 1st, 2018.
30. **Abdul Razaque**, Muder Almiani, Meer Jaro khan, Mukazhanov Nurzhan Kakenuly ; Yaser Jararweh,“Energy Efficient Medium Access Control Protocol for Wireless Sensor Networks”, IEEE 2018 6th International Renewable and Sustainable Energy Conference December 5-8, 2018, Rabat – Morocco.
31. **Abdul Razaque**, Zhou Xihao, Wei Liangjie, Muder Almiani, Yaser Jararweh, Meer Jaro Khan, “Naïve Bayesian and Fuzzy C-means Algorithm for Mobile Malware Detection Precision”, IEEE Fifth International Conference on Internet of Things: Systems, Management and Security (IoTSMS), Valencia, Spain. Oct 15-18, 2018.
32. Syed Rizvi, **Abdul Razaque** and Joseph Gualdoni. “Securing Wireless Sensor Networks from Sinkhole and Sybil Attacks Using Secure Data Aggregation Protocol”, The **17th IEEE International Conference** on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-18), July 31th - August 3rd, 2018.
33. Muder Almiani, Alia Abu Ghazleh, Amer Al-Rahayfeh, **Abdul Razaque**,” Intelligent intrusion detection system using clustered self-organized map”, 2018 Fifth IEEE International Conference on Software Defined Systems (SDS) **DOI:** 10.1109/SDS.2018.8370435
34. **Abdul Razaque**, Wang Jinrui and Wang Zancheng, Qassim Bani Hani , Murad Ali Khaskheli, Waseem Ahmed Bhutto “, Integration of CPU and GPU to accelerate RSA modular exponentiation operation”, 15th Long Island Systems, Applications and Technology Conference (LISAT), 4 May 2018, Farmingdale, NY, USA, USA: **DOI:** 10.1109/LISAT.2018.8378036.

35. **Abdul Razaque**, Fathi Hassan Mohamed Amsaad, Li Jiazhi, Gu Huayue , Abdalraouf Hassan “Incentive mechanisms for crowdsensing”, 15th Long Island Systems, Applications and Technology Conference (LISAT), 4 May 2018, Farmingdale, NY, USA, USA: **DOI:** 10.1109/LISAT.2018.8378038.
36. **Abdul Razaque**, Du Kejun, Zhu Xueqi, Li Wanyue, Qassim Bani Hani , Meer Jaro Khan, “Survey: Wildlife trade and related criminal activities over the internet”, 15th Long Island Systems, Applications and Technology Conference (LISAT), 4 May 2018, Farmingdale, NY, USA, USA: **DOI:** 10.1109/LISAT.2018.8378037.
37. **Abdul Razaque**, Fathi Amsaad, Murad Ali Khaskheli, Meer Jaro Khan, Abdalraouf Hassan, Abro Muhammad Ilyas, “Secure and energy efficient mobile payment protocol”, **15th IEEE** Long Island Systems, Applications and Technology Conference (LISAT), 4 May 2018, Farmingdale, NY, USA, USA: **DOI:** 10.1109/LISAT.2018.8378039.
38. Liang Guo, Pu Du, **Abdul Razaque**, Muder Almiani and Amer Al-Rahayfeh” Energy saving and maximize utilization cloud resources allocation via online multi-dimensional vector bin packing”, Fifth IEEE International Conference on Software Defined Systems (SDS-2018) Barcelona, Spain. April 23-26, 2018. **DOI:** 10.1109/SDS.2018.8370438
39. **Abdul Razaque**, Liu Yimu, Tang Minjie, Muder Almiani and Amer Al-Rahayfeh,” Distributed Allocating Algorithm based on Cloud CPU Scheme”, **Fifth IEEE** International Conference on Software Defined Systems (SDS-2018) Barcelona, Spain. April 23-26, 2018. **DOI:** 10.1109/SDS.2018.8370439
40. **Abdul Razaque**, Yaqin Ge and Ziqi Shen, “Android CompCache”, **IEEE** international conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018.
41. Huang Yiming, Yan Shilin, **Abdul Razaque**,”Analytical Evaluation of K-Anonymity Algorithm and Differential Privacy Mechanism in Cloud Computing Environment, **IEEE** international conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018.
42. Cai Mengjie, Lin Jiahui and **Abdul Razaque**, “Smart Phone as Toolbox for Height Measurement”, **IEEE international** conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018.
43. **Abdul Razaque**, Yan Jingwen, Zhang Yingnan, and Zhang Qiushi, “Decentralized Information Flows Control to Reduce Data Leakage for Cloud Computing”, **IEEE** international conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018.
44. **Abdul Razaque**, Wan Xiaoya and Li Shiyu, “An Application of a Context-aware File System”, IEEE international conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC) 28th & 29th January 2018.
45. **Abdul Razaque** , M. Abdulghafour, Meer Jaro Khan, Salman Khurshid P, “ Detection of selfish Attack over wireless Body Area Networks”, IEEE Conference on Open Systems 2017, 13 – 14 November 2017, Sarawak, Malaysia. **Best Paper Award.**
46. **Abdul Razaque** , M. AbdulGhafour, Meer Jaro Khan, Ahmad Haroon, “ Intelligent Buffer Mechanism for Wireless Mesh Networks based on IEEE 802.11” , Global Summit on Computer & Information Technology (GSCIT), 01-02 July, 2017 Sousse, Tunisia.
47. **Abdul Razaque**, M.Abdulghafour, "IEEE802.11 control frame protection using Hand off process," ACM 4th International conference on Automatic Control, Engineering & Computer Science (ACECS-2017) , 28-30 March, 2017, Tangier, Morocco.
48. **Abdul Razaque**, Muder Almani, Syed S. Rizvi and Batu Vamsi, "A New Power Efficient Wireless Modem," **19th IEEE International Multi-Topic** Conference (INMIC 2016), 5-6 December, 2016, PP:1-5, **DOI:** 10.1109/INMIC.2016.7840104.
49. Syed S. Rizvi, **Abdul Razaque**, "Black-Box: A New Secure Distributed Peer-to-Peer File

- Storage and Backup System," **19th IEEE International Multi-Topic Conference (INMIC 2016)**, 5-6 December, 2016, PP:1-6,: DOI10.1109/INMIC.2016.7840163.
50. **Abdul Razaque**, Muder Almiani, Syed Rizvi, "Black-Box: Distributed Peer-to-peer file storage and backup", Annual **IEEE** Connecticut Conference on Industrial Electronics, Technology and Automation (CT-IETA 2016), October 14-15, 2016.
 51. **Razaque, Abdul**, Fathi H. Amsaad, Musbah Abdulgader, Vijay Chand Mannava, Ibrahim Elwarfalli, and Pavan Teja Kilari. "Automatic Tampering Detection Paradigm to Support Personal Health Record." In Connected Health: Applications, Systems and Engineering Technologies (**CHASE**), 2016 **IEEE** First International Conference on, pp. 388-393. IEEE, 2016.
 52. Trivedi, Ankit, **Abdul Razaque**, Fathi H. Amsaad, and Musbah Abdulgader. "Efficient allocation of slot using Medium Access Control protocol." In Electro Information Technology (EIT), 2016 **IEEE** International Conference on, pp. 0105-0110. IEEE, 2016.
 53. **Razaque, Abdul**, Savitesh Jain, MNK Sai Santosh Irrinki, Fathi H. Amsaad, and Musbah Abdulgader. "Simultaneous Priority and Detection based Carrier Sense Multiple Access protocol." In Electro Information Technology (EIT), 2016 IEEE International Conference on, pp. 0111-0116. **IEEE**, 2016.
 54. **Razaque, Abdul**, Peter Oddo, Fathi H. Amsaad, Mohit Sangavikar, and Sushil Manchikatla. "Power reduction for Smart Homes in an Internet of Things framework." In Electro Information Technology (EIT), 2016 **IEEE** International Conference on, pp. 0117-0121. IEEE, 2016.
 55. **Razaque, Abdul**, Prudhvi Sagar Sreeramoju, Fathi H. Amsaad, Chaitanya Kumar Nerella, Musbah Abdulgader, and Harsha Saranu. "Multi-biometric system using Fuzzy Vault." In Electro Information Technology (EIT), 2016 **IEEE** International Conference on, pp. 0122-0126. IEEE, 2016.
 56. **Razaque, Abdul**, Satwic Mudigulam, Kiran Gavini, Fathi Amsaad, Musbah Abdulgader, and Gondal Sai Krishna. "H-LEACH: Hybrid-low energy adaptive clustering hierarchy for wireless sensor networks." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-4. IEEE, 2016.
 57. Dalal, Hemin Nilesh, Nisarg V. Soni, and **Abdul Razaque**. "Header encryption of IEEE802.15.4." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-6. IEEE, 2016.
 58. Kolk, Richard, and **Abdul Razaque**. "Scalable and energy efficient computer vision for text translation." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-6. IEEE, 2016. (**BEST PAPER AWARD**).
 59. Patel, Bhaumil, Gayathri Ramesh, Sreekar Karna, and **Abdul Razaque**. "Confidential Synchronized Anti-Tag Cloning for securing Radio Frequency Identification communication." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-6. IEEE, 2016.
 60. **Razaque, Abdul**, Musbah Abdulgader, Chaitrali Joshi, Fathi Amsaad, and Mrunal Chauhan. "P-LEACH: Energy efficient routing protocol for Wireless Sensor Networks." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-5. IEEE, 2016.
 61. **Razaque, Abdul**, Ankit Trivedi, Mansi Joshi, Minusha Kurakula, and Sharanya Srungaram. "Novel signature verification process." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-5. IEEE, 2016.
 62. Unk, Niraj, Ankit Trivedi, and **Abdul Razaque**. "Dynamic allocation of slot using MAC protocol." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-5. IEEE, 2016.

63. **Razaque, Abdul**, Nikhileshwara Reddy Vennapusa, Nisargkumar Soni, and Guna Sree Janapati. "Task scheduling in Cloud computing." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-5. IEEE, 2016.
64. **Razaque, Abdul**, Fathi Amsaad, Raveendra Kumar, Musbah Abdulgader, Sai Kiran Jagadabi, and Srihar Sheela. "Pebble Watch security assessment." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-4. IEEE, 2016.
65. Akbari, Elham, Francis Cung, Hardik Patel, **Abdul Razaque**, and Hemin Nilesh Dalal. "Incorporation of weighted linear prediction technique and M/M/1 Queuing Theory for improving energy efficiency of Cloud computing datacenters." In Long Island Systems, Applications and Technology Conference (LISAT), **2016 IEEE**, pp. 1-5. IEEE, 2016.
66. **Abdul Razaque**, Dammannagari Nayani Reddy, Poojitha Anne, Divya Veg, "Secure Data Sharing in Multi-Clouds", **IEEE 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)**.
67. Patel, Dharin, Nisarg Soni, Gargey Dholariya, Hemin Dalal, **Abdul Razaque**, and Krutik Maheta. "Detection and resolving jamming in RFID wireless network using Gauss Elimination method." In Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on, pp. 1897-1903. **IEEE, 2016**.
68. **Razaque, Abdul**, Saty Siva Varma Nadimpalli, Suharsha Vommuna, Dinesh Kumar Atukuri, Dammannagari Nayani Reddy, Poojitha Anne, Divya Vegi, and Vamsee Sai Malllapu. "Secure data sharing in multi-clouds." In Electrical, Electronics, and Optimization Techniques (ICEEOT), International Conference on, pp. 1909-1913. **IEEE, 2016**.
69. **Razaque, Abdul**, Sai Subramanya Vamsi Chavali, Sundeeep goud Malkapuram, Satya Siva Varma Nadimpalli, Suharsha Vommuna, Dinesh Kumar Atukuri, and Vamsee Sai Malllapu. "Trans Receiving Multimedia using Raspberry-Pi." **IEEE 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)**.
70. Pendli, Vandan, Mokshitha Pathuri, Subhakar Yandrathi, and **Abdul Razaque**. "Improvising performance of Advanced Encryption Standard algorithm." In 2016 Second International Conference on Mobile and Secure Services (**MobiSecServ**), pp. 1-5. **IEEE, 2016**.
71. Haque, Asadul, Shantanu Kode, **Abdul Razaque**, and Muder Almiani. "ConSec: An encryption policy for context aware security applications." In 2016 7th International Conference on Information and Communication Systems (ICICS), pp. 96-101. **IEEE, 2016**.
72. Rizvi, Syed, **Abdul Razaque**, and Katie Cover. "Third-Party Auditor (TPA): A Potential Solution for Securing a Cloud Environment." In Cyber Security and Cloud Computing (CSCloud), 2015 IEEE 2nd International Conference on, pp. 31-36. **IEEE, 2015**.
73. Muder Almiani, Ayman Al Dmour, **Abdul Razaque**, "An Interactive Framework to Deliver Mobile Government Services" 2015 **IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT)**, Amman Jordan, 3-5 November, PP: 1-5.
74. Rzvi, Syed, **Abdul Razaque**, and Katie Cover. "Cloud Data Integrity Using a Designated Public Verifier." In High Performance Computing and Communications (HPCC), 2015 IEEE 7th International Symposium on Cyberspace Safety and Security (CSS), 2015 IEEE 12th International Conferen on Embedded Software and Systems (ICESS), 2015 **IEEE 17th International Conference on**, pp. 1361-1366. IEEE, 2015.
75. **Razaque, Abdul**, and Khaled Elleithy. "Scalable and energy efficient medium access control protocol for wireless sensor networks." In Systems, Applications and Technology Conference (LISAT), **2015 IEEE Long Island**, pp. 1-4. IEEE, 2015.
76. **Razaque, Abdul**, and Khaled Elleithy. "Pheromone termite (PT) model to provide robust routing over Wireless Sensor Networks." In American Society for Engineering Education (ASEE Zone 1), 2014 Zone 1 Conference of the, pp. 1-6. **IEEE, 2014**.

77. **Razaque, Abdul.** "Mobility-Aware Hybrid Medium Access Control Protocol for Wireless Sensor Network (WSN)." In In Proceedings of the 2014 **IEEE Sensors Applications Symposium**, Rydges Lakeland Resort. 1820.
78. **Razaque, Abdul,** and Khaled Elleithy. "Least Distance Smart Neighboring Search (LDSNS) over Wireless Sensor Networks (WSNs)." In Modelling Symposium (EMS), 2013 European, pp. 549-554. **IEEE, 2013.**
79. Abeer Abass, Khaled M Elleithy, **Abdul Razaque,** "Dynamic Cluster Head Node Election (DCHNE) Model over Wireless Sensor Networks (WSNs)", 29th International Conference on Computers and Their Applications **CATA-2014**, Las Vegas, Nevada; 03/2014.
80. **Abdul Razaque,** Khaled M Elleithy, "Efficient Search (RES) for One-Hop Destination over Wireless Sensor Network". 28th International Conference on Computers and Their Applications **CATA-CATA-2013**, March 4-6, 2013, Honolulu, Hawaii, USA.
81. **Razaque, Abdul,** Ali Hur, H. Farooq Ahmad, and Muddassar Masood. "Cyber security: Threats, reasons, challenges, methodologies and state of the art solutions for industrial applications." In 2013 IEEE Eleventh International Symposium on Autonomous Decentralized Systems (ISADS), pp. 1-6. IEEE, 2013.
82. **Abdul Razaque,** Khaled Elleithy, Mumtaz Begum," Controlling Myocarditis Attack of Heart using Anomaly Based Interusion Detections Algorithms", Proceedings of **IEEE ASEE Northeast Section Conference 2013.**
83. **Abdul Razaque** and Khaled Elleithy, "Controlling Attacks of Rogue Dynamic Host Configuration Protocol (DHCP) to Improve Pedagogical Activities in Mobile Collaborative Learning (MCL) Environment," **IEEE International conference of Communication and Computer Engineering**, 2012.
84. **Razaque, Abdul,** and Khaled Elleithy. "Supportive framework and innovative mobile application to augment mobile collaborative learning (MCL) activities." In Education and e-Learning Innovations (ICEELI), 2012 International Conference on, pp. 1-6. **IEEE, 2012.**
85. **Abdul Razaque,** Khalid Elleithy, Nyembo Salama: Novel Framework for Mobile Collaborative learning (MCL) to substantiate pedagogical activities. **IEEE International conference on Internet Technologies & Society 2011 (ITS 2011)**, China; 01/2011.
86. **Abdul Razaque,** Khaled Elleithy: Innovative mobile application to foster Mobile Collaborative Learning Environment (MCLE). 10th **IEEE International Information and Telecommunication Technologies Conference**, Curitiba, Paraná State, Brazil; 12/2011
87. **Abdul Razaque,** Khaled Elleithy: Design and development of helological prototypes for mobile collaborative learning (MCL). 2011 **ASEE Northeast Section Conference**; 04/2011
88. **Abdul Razaque,** Khaled Elliethy, Fadel Hussen, Omer Etaech, Wafa Elmannai: Novel proactive patch peer protocol to support faster delivery of video-on-demand. 2011 **ASEE Northeast Section Conference**, University of Hartford, Connecticut; 04/2011.
89. Wafa Elmannai, **Abdul Razaque** and Khaled Elleithy, "Simulation based Study of TCP Variants in Hybrid Network", **IEEE 2011 ASEE Northeast Section Conference**, University of Hartford, Connecticut; 04/2011.
90. **Abdul Razaque,** Ali Hur, Muddassar Masood, Khalid Latif, H. Farooq Ahmad, and Hironao Takahashi. "Foundation of semantic rule engine to protect web application attacks." In 2011 Tenth international symposium on autonomous decentralized systems, pp. 95-102. IEEE, 2011.
91. Kwang Lee, **Abdul Razaque:** Suggested Collaborative Learning Conceptual Architecture and Applications for Mobile Devices. Design, User Experience, and Usability. Theory, Methods, Tools and Practice - First International Conference, Held as Part of HCI International 2011, Orlando, FL, USA, July 9-14, 2011, Proceedings, **Springer Part I**; 01/2011.
92. **Abdul Razaque,** Khaled Elleithy, N. Salama, Enam ul Haq, Abhilasha Tibrewal, "Developing the comiler to upgrade features of object-oriented programming (OO) C++", **IEEE 2011 ASEE Northeast Section Conference**, University of Hartford, Connecticut; 04/2011.
93. **Abdul Razaque,** Kwang Lee, Salmaman. R, Farzan Saroushi, "Proactive patch peer for video-on-demand streaming in hybrid network", International Advanced development Information Society (**IADIS**) E-SOCIETY, Avila, Spain; 03/2011.

94. **Abdul Razaque**, M.A. Qadir, K. Shahzad, O.B. Nazir, Hammad Banuri: Device Discovery with Qualitative & Quantitative Analysis of TCP Variants Under Mobility Based Anchor Point Node in Hybrid Network”, International **IADIS** multi conference on Computer Science and Information Systems , 22-24 July, Amsterdam, Netherland.
95. Munir Ahmad, M. Abdul Qadir, **Abdul Razaque**, Muhammad Sana Ullah, “Query Processing over semantic Cache, ”**IADIS** International conference telecommunications, networks and systems, 22-24 July, Amsterdam, Netherland.
96. **Rind, A.R.**, Shahzad, K., & Begum, M: policy on Gender, Education and Development in Africa since 1995. **International conference on status of Educational Reform** in developing countries (Emphasis on South Asia), Agha Khan university institute of Educational development, April 08-10, 2008. South East Asia Research 04/2008.
97. **A. Razaque**, K. Shahzad, M. A. Qadir: Analytical comparison of TCP Variants under mobility aware Anchor Point Node (APN) Hybrid Network. 01/2008; Proceedings of the **IEEE** Mosharaka International Conference on Communications, Signals and Coding, 2008. MIC-CSC '08.
98. **A. Razaque**, S. Banuri, K. Shahzad, M. A. Qadir, M. Ahmad: Analysis of TCP variants at various link error rates under mobility aware Anchor Point Node Hybrid Network. Proceedings of the **IEEE** Mosharaka International Conference on Communications, Signals and Coding, 2008. MIC-CSC '08, PP. 60-65, Amman, Jordan, INSPEC Accession Number: 10703183.
99. **Abdul Razaque**, Khurram Shahzad, Muhammad Abdul Qadir: Performance Evaluation of TCP Variants under Mobility Based Anchor Point Node (APN) Hybrid Network. 6th Annual **IEEE/ACM** International conference on Communication Networks and Services Research Conference (CNSR), 5-8 May 2008, pp.270-277, Halifax, Canada. **(Best Paper Award)**.
100. **Abdul Razaque**, Khurram Shahzad, M.Abdul Qadir, “Evaluation and comparison of TCP and UDP over Wired-cum-Wireless LAN” , **IEEE INMIC-20**; 01/2007.

➤ Technical Reports

101. **Abdul Razaque**, christian Bach, Nyembo Salama, ‘Scientific methodology to foster theory and knowledge” <https://www.academia.edu>, pp. 1-6, June, 2014.
102. Ramos, Pedro V.; Engelmann, Kathleen; **Razaque, Abdul**, "The Human Brain Thermo Receptors: The Best Indicators for Reflecting the Feelings" (03-28-2014). <https://repository.bridgeport.edu/xmlui/handle/123456789/903>.
103. Fatma Almajadub, **Abdul Razaque**, Eman Abdel Fattah, “Stream Control Transmission Protocol (SCTP): Robust and Efficient for Data Centre Applications” , 2 Dec 2013 <http://arxiv.org/abs/1312.0629>.

➤ Editorial Role

- **Guest Editor, Electronics, MDPI:** January, 2021: https://www.mdpi.com/journal/electronics/special_issues/privacy_electronics
- **Topic Editor, Electronics, MDPI:** Since October, 2020.
- **Associate Editor, IEEE ACCESS:** March 2017- January 2019.
- **Editorial Board Member**, Elsevier computers and Security, 2014-2018.
- **Editor-in-Chief**, International Journal of Engineering and Technology (IJET) Singapore:2012-March 2015, (composed 23 Issues): <http://www.ijetch.org/editor.htm>
- Member, **Editorial Board** for International Journal of Network and Communication: **2011-2013**.
- Member, **Editorial Board**, Technologies Canadian Center of Science and Education 1120 Finch Avenue West, Suite 701-309, Toronto, ON., M3J 3H7, Canada. **2011-2012**

➤ Professional Service

- **Chair, Strategic Planning Committee, IEEE SAC Region-1, USA:** January 8, 2014 – December 2015: http://ewh.ieee.org/reg/1/sac/assets/Documents/About%20Us/organization_chart.pdf

- **Relations Officer, IEEE SAC- Region 8, Strategic Planning EMEA (Europe, Middle East, and Africa) :** January 8, 2014 – Dec 2015:
http://ewh.ieee.org/reg/1/sac/assets/Documents/About%20Us/organization_chart.pdf

➤ **Keynote Speaker**

1. Keynote speaker for colloquium Engineering, 18 March, 2013, University of Bridgeport, CT, USA: http://www.bridgeport.edu/files/4713/9861/1472/C77611_Engineer_1.pdf
2. International Conference on Information and Network Technology (ICINT 2013): <http://www.asr.org/index.php?m=content&c=index&a=show&catid=35&id=304>
3. 2nd International Conference on Security Science and Technology (ICSST 2013), Singapore: <http://www.asr.org/index.php?m=content&c=index&a=lists&catid=35&page=10>
4. 2013 2nd International Conference on Network and Computer Science (ICNCS 2013), April 1-2, 2013, Singapore, organized by IACSIT and International Journal of Engineering and Technology (IJET). <http://www.icsst.org/news.html>
5. 2012 International Conference on Smart Grid Systems (ICSGS 2012), held on 24-26 July 2012, Kuala Lumpur, Malaysia, sponsored by Singapore Institute of Electronics: http://eeip.cz/download/RIA_IASCIT_conference_program_Kuala_Lumpur_07-2012.pdf
6. 2012 International Conference on Information and Knowledge Management (ICIKM 2012): http://eeip.cz/download/RIA_IASCIT_conference_program_Kuala_Lumpur_07-2012.pdf
7. International Conference on Nanomaterials and Electronics Engineering ICNEE 2012 held on 24-26 July 2012, Kuala Lumpur, Malaysia, sponsored by Singapore Institute of Electronics
8. 2012 4th International Conference on Mechanical and Electrical Technology (ICMET 2012):
http://eeip.cz/download/RIA_IASCIT_conference_program_Kuala_Lumpur_07-2012.pdf

➤ **Conference General Chair/ Co-Chair**

1. **Co-Chair** for IEEE 2022 International Conference on Intelligent Computing, Automation and Applications (ICAA2022): Hangzhou, Zhejiang, China, July 22-24, 2022.
2. **Co-Chair** for IEEE 6th International Conference on Information and Education Technology (ICIET 2018).
3. **Co-Chair** for 2014 the 3rd International Conference on Security and Technology (ICSST 2014), March 20-21, 2014 in Manila, Philippines.
4. **Co-Chair** for 2013 The 3rd World Conference on Science and Engineering-WCSE 2013, August 24-25, 2013. Singapore.
5. **General Chair** for 2nd International Conference on Security Science and Technology (ICSST 2013), April 1-2, 2013, Singapore, organized by IACSIT and International Journal of Engineering and Technology (IJET).
6. **General Chair** for 2013 2nd International Conference on Network and Computer Science (ICNCS 2013), April 1-2, 2013, Singapore, organized by IACSIT and International Journal of Engineering and Technology (IJET).
7. **Co-chair** for 3rd International Conference on Advanced Materials Research (ICAMR 2013), Dubai, UAE, January 19-20, 2013.
8. **Co-chair** for International Conference on Scientific Research and Studies (ICSRS 2013), Dubai, UAE, January 19-20, 2013.
9. **Co-chair** for 2nd International Conference on Smart Grid Systems (ICSGS 2013), Chengdu, China during July 20-21, 2013.
10. **Co-chair** for 5th International Conference on Mechanical and Electrical Technology (ICMET 2013), Chengdu, China during July 20-21, 2013.
11. **General Chair** for 2012 International Conference on Information and Knowledge Management (ICIKM) 2012, 24-26 July 2012, Kuala Lumpur, Malaysia sponsored by Singapore Institute of Electronics.

12. **General Chair** for 2012 International Conference on Smart Grid Systems (ICSGS) 2012, 24-26 July 2012, Kuala Lumpur, Malaysia sponsored by Singapore Institute of Electronics.
13. **General Chair** for 4th International Conference on Mechanical and Electrical Technology (ICMET) 2012, Kuala Lumpur during July 24-26, 2012.
14. **General Chair** for 2012 International Conference on Nanomaterials and Electronics Engineering ICNEE 2012, 24-26 July 2012, Kuala Lumpur, Malaysia. ICNEE 2012 sponsored by Singapore Institute of Electronics.
<file:///C:/Users/Abdul%20Razaque/Downloads/AMM.229-231.-1.pdf>

➤ **Program Committee Chair**

- Fifth International Conference on Digital Technology Science and Industry (DTSI), Almaty, Kazakhstan, 30-31 May, 2019.
- 2015 the 4th International Conference on Security Science and Technology (ICSST 2015), UK.

➤ **Session Chair**

- **Session Chair** for ICNCS 2013 held, April 1-2, 2013 in Singapore, organized by IACSIT and International Journal of Engineering and Technology (IJET).
- **Session Chair** for 2nd International Conference on Security Science and Technology (ICSST 2013), April 1-2, 2013, Singapore, organized by IACSIT and International Journal of Engineering and Technology (IJET).
- **Session Chair** for 2013 2nd International Conference on Network and Computer Science (ICNCS 2013), April 1-2, 2013, Singapore, organized by IACSIT and International Journal of Engineering and Technology (IJET).

➤ **Professional Activities**

- **Member of State Examination**, International Information Technology University, Kazakhstan, August 2019-July 2021.
- **Chairman, Assessment Committee**, New York Institute of Technology Nanjing Campus, China, Since August, 2017- August 2018.
- **Member of Curriculum Committee** of Electrical Engineering and Computer Science at Cleveland State University and accreditation board for engineering and technology (ABET), August 2015- July 2016
- **Member of Discipline Committee**, Electrical Engineering and Computer Science, Cleveland State University, August 2015- July 2016.

➤ **Reviewer of Top Selected Journals**

- IEEE IoT, Since 2019.
- IEEE ACCESS, Since 2017.
- Elsevier Journal on Computers & SECURITY, Since 2017.
- IEEE Communication Tutorials and Survey, Since 2017.
- ACM Transaction on Embedded Computing Systems, Since 2017.
- Applied Sciences, MDPI, since 2015.
- IEEE Transactions on Sensor Networks, since 2016.
- IEEE Transactions on Vehicular Technology, since 2016.
- Springer Journal on Cloud Computing, since 2015.
- Elsevier Journal of Infection and Public Health, since 2015.
- Journal of Experimental & Theoretical Artificial Intelligence, Taylor Francis, 2015.
- Sensor Journal Since 2014.

- IEEE Transactions on Cybernetics since 2014.
- IEEE Transactions on Cloud Computing since 2014.
- IEEE Transactions on Mobile Computing since 2015.
- IEEE/ACM Transactions on Networking since 2014.
- IEEE Communication Letter since 2010.
- IET Wireless Sensor Systems since 2009.
- Elsevier International Journal of Electrical Power and Energy Systems since 2013.
- Elsevier Journal on Computer and Communications networks since 2013.
- ACM Transaction of sensor network since 2012.

➤ **Technical Program Committee Member for Selected Conferences**

- 2016 IEEE INFOCOM International Workshop on Computer and Networking Experimental Research Using Testbeds (CNERT).
- SZABIST Multidisciplinary International Conference (SMIC) 2016.
- IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2015).
- Environmental and Civil Engineering Technology International Conference 2015(ENVICET'15)
- IEEE International Conference on Automation, Cognitive Science, Optics, Micro Electro--Mechanical System, and Information Technology, (ICACOMIT 2015)
- ICGST International Journal on Graphics, Vision and Image Processing (GVIP 2015).
- IEEE International Conference on Industrial Electronics, Mechatronics, Automation, Computer Systems and Informatics (IMACSI 2014), (IMACSI 2015).
- 10th Annual IEEE International Joint Conferences on Computer, Information, Systems Sciences, & Engineering (CISSE 2014)
- IEEE International Conference on Intelligent Autonomous Agents, Networks and Systems (INAGENTSYS 2014).
- 48th Annual Conference in Information Sciences and Systems (CISS-2014).
- IEEE 2nd International Conference on Technology, Informatics, Management, Engineering & Environment (TIME-E-2013), (TIME-E-2013).
- IEEE International Conference on Intelligent Autonomous Agents, Networks and Systems (INAGENTSYS 2014).
- IEEE 2014 International Symposium on Industrial Electronics (ISIE-2014).
- IEEE Second International Symposium on Green Networks and Distributed Systems (GNDS-2014).
- IEEE International Conference on Business, Engineering and Industrial Applications (ISBEIA 2013), ISBEIA 2013).
- IEEE Symposium on Computer Applications and Industrial Electronics (ISCAIE-2012)
- IEEE Business, Engineering & Industrial Applications Colloquium (BEIAC-2012), (BEIAC 2013).
- IEEE Industrial Electronics and Applications (ISIEA), 2012.
- IEEE Symposium on e-Learning, e-Management and e-Services (IS3e 2012).
- IEEE Student Conference on Research and Development (SCORED2011)
- IEEE International Conference on Computer Applications and Industrial Electronics (ICCAIE2011).
- International Conference on Systems, Computing Sciences and Software Engineering (SCSS 12), (SCSS 13), (SCSS 14), USA.
- American Society for Engineering Education, Northeast Section Conferences (ASEE-2011), (ASEE-2012).
- IEEE Conference on Open Systems(ICOS 2011), (ICOS 2012).
- IEEE Symposium on Computers & Informatics (ISCI-2011), (ISCI-2012).
- IEEE International Conference on Computer Applications and Industrial Electronics (ICCAIE)
- Mosharaka International Conference on Communications, Propagation, and Electronics (MIC-CPE2010).
- 3rd International Conference on Communications, Computers, and Applications; MIC-CCA 2009.
- Mosharaka International Conference on Communications, Networking and Information Technology (MIC-CNIT 2008).

➤ Professional Memberships & Activities

- **Senior Member** for American Society for Research since 2011.
- **Senior Member, IEEE** since January 2016.
- **Member, IEEE Education Society** since 2010.
- **Secretary General**, International Rania Welfare Trust, 2004-2010
- **Member, IEEE Communication Society** since 2008.
- **Member, IEEE Nanotechnology Council** since 2015.
- **Member, IEEE Council on Electronic Design Automation** since 2015.
- **Member, IEEE Biometrics Council** since 2015.
- **Member, IEEE Consultants Network Membership** since 2015.
- **Executive Member** Student Programming Board, University of Bridgeport, CT, USA, 2011-2013
- **Member, IEEE Cloud Computing Community** since 2012.
- **Professional Member** for American Society for Engineering Education (ASEE), 2014
- **Committee Member** for AEE, Energy Conversion and Conservation, 2015
- **Committee Member**, Computing & Information Technology, 2015
- **Committee Member**, Software Engineering Constituent Committee , 2015
- **Committee Member**, Technological and Engineering Literacy/Philosophy of Engineering, 2015
- **Committee Member**, Community Engagement Division, 2015.
- **Committee Member**, Engineering Leadership Development Division, 2015.
- **Professional Member**, Association for Computing Machinery (ACM) since 2006.
- **Secretary General**, International Rania Welfare Trust, 2004-2010.
- **Finance Secretary**, Sindh Graduate Association, Pakistan, 2001-2004.
- **Secretary General**, Government Secondary Teacher Association (GSTA), 1997-2001.
- **Departmental Student Representative**, the University of Sindh, Pakistan, 1995-1997.

➤ Awards and Honors

- **Third Place Research award:** Digital Technology Science and Industry (DTSI), Almaty, Kazakhstan, 30-31 May, 2019.
- **International Cyber Security Expert Award:** World Skills Kazakhstan, 10 April, 2019.
- **Best Application Track Paper Award:** 2019 **IEEE Long Island Systems, Applications and Technology Conference**, May 3, 2019, Farmingdale State College of the State University of New York, USA.
- **Excellent Award of Security:** World Skills Kazakhstan, 30 March, 2019.
- **Best Foreigner Teacher Award 2019:** given by IITU, Kazakhstan.
- **Best Paper Award:** 2017 **IEEE Conference on Open Systems** 2017, 13 – 14 November 2017, Sarawak, Malaysia.
- **Google PhD Fellowship**, 2014.
- **Best Paper Award:** 2016 **IEEE Long Island Systems, Applications and Technology Conference**, April 29, 2016, Farmingdale State College of the State University of New York, USA.
- **Best Student Research Award:** awarded by the Faculty of Engineering, University of Bridgeport, 2014.
- **Special Award:** awarded by Islamic Development Bank due to scholarly work and socioeconomic activities
- **Excellence Award:** awarded by Student Programming Board, the University of Bridgeport based on extra- curriculum activities, Fall-2013.
- **Commonwealth Fellowship:** awarded by Government of United Kingdom, US\$48000: 2011-2012.
- **Split Merit Scholarship:** Funded by Higher Education Commission, Pakistan, US\$72000.00, 2011-2013
- **Merit Scholarship:** Offered by the University of Bridgeport, USA, 2011-2014.
- **Inspirational Award:** Presented by Shell Pakistan, 2011

- **Cultural exchange Fellowship:** Awarded by United States Educational Foundation in Pakistan, 2011.
- **Cultural Exchange Fellowship Award,** 2011
- **Distinguished Globe Award:** Awarded by Swedish CSR in sustainability Innovation from Globe Award organization, 2010.
- **Recognition Award:** Awarded by Pakistan Science Foundation as the most active researcher in 2008
- **Merit Scholarship:** awarded by Department of Electrical Engineering, University of Southampton , United Kingdom, 2009.
- **Outstanding Mathematician and Engineering Award:** given by United Nations Educational Scientific and Cultural Organization (UNESCO), and French Embassy, 2008 with cash of US\$500.

➤ Travel Grants

- **Travel Grant:** Presented the work with title "IEEE802.11 control frame protection using Hand off process," ACM 4th International conference on Automatic Control, Engineering & Computer Science (ACECS-2017) , 28-30 March, 2017, Tangier, Morocco, awarded by NYIT, USA, amount US\$2500.
- **Travel Grant:** Presented the work with title "Dynamic Cluster Head Node Election (DCHNE) Model over Wireless Sensor Networks", 29th International Conference on Computers and Their Applications CATA-2014, Las Vegas, Nevada, April 2014, award by University of Bridgeport, USA, amount US\$1350.00.
- **Travel Grant:** Presented the work with title "Automated energy saving (AES) paradigm to support pedagogical activities over wireless sensor networks" In Ubiquitous Computing & Ambient Intelligence (UCMAL-2012), Springer/ACM, December 3-5, 2012, Spain, funded by Higher Education Commission , Pakistan, amount US\$2995.00
- **Travel Grant:** Presented the work with title "Detection of Attacks for Restoring Privacy of Users to Improve Mobile Collaborative Learning (MCL) Over Heterogeneous Network" In IEEE International conference of Communication and Computer Engineering, Dubai, UAE, 2012, funded by Higher Education Commission, Pakistan, amount US\$2740.00
- **Travel Grant:** Presented the work with title "Proactive patch peer for video-on-demand streaming in hybrid network" , International Advanced development Information Society (IADIS) E-SOCIETY, Avila, Spain; 03/2011, funded by Higher Education Commission, Pakistan, amount US\$3180.00.
- **Travel Grant:** Presented the work with title "Performance Evaluation of TCP Variants under Mobility Based Anchor Point Node (APN) Hybrid Network" In proceedings of 6th Annual IEEE/ACM International Conference on Communication Networks and Services Research Conference (CNSR), 5-8 May 2008, Halifax, Canada funded by Pakistan Science Foundation, amount US\$ 3214.00.
- **Travel Grant:** Presented the work with title "Link error rates under mobility-aware Anchor Point Node Hybrid Network" In IEEE Mosharaka International Conference on Communications, Signals and Coding, 2008. MIC-CSC '08, PP. 60-65, Amman, Jordan, INSPEC Accession Number: 10703183, funded by Higher Education Commission, Pakistan, 2007, amount US\$2270.00.

❖ Advisory Role

- **Supervised Industry Funded projects (Cleveland State University, USA)**

Type of Project	Title of Project	Sponsor Agency	Role	Completion Date
Senior Design Project	Humidity and oil mist sensor	Orbital Research	Advisor	Spring 2016

Senior Design Project	Dual Burner Spark Ignition Controller	Channel Products	Advisor	Spring 2016
Senior Design Project	streetlight wireless camera	GE Lightening/ Cleveland State University	Co-Advisor	Spring 2016

➤ Supervising PhD student(s)

- **Meer Jaro Khan.,** Energy Efficient Search for Bbjects using Data Mining approach, Cleveland State University, 2015-2019.
- **Alexy Abey,** Secure Service-Oriented Architecture for Detecting the brain cancer New York University, 2018-Present.
- **Alexi,** Development of a secure service oriented architecture to identify anonymous complaints, New York University, Since August 2018-till (Co-Supervisor)
- **Haung Bin,** Framework to improve the response time of Blockchain, New York University, Since August 2018-till (Co-Supervisor).
- **Aitifi Bekova,** Improvement in activation functions for Neural Network, Kazakh British University, Since September 2019-till (Foreigner Co-Supervisor)
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➤ Supervised Master students (Thesis)

- **Gulseizm Duisen,** Development of secure dual voter authentication system, M.S Thesis, Department of Electrical Engineering and Computing Science New York University, USA, 2018- 2019.
- **Zhansaya,** Development of digitalization workflow for the criminal investigation and suspect M.S Thesis, Department of Electrical Engineering and Computing Science New York University, USA, 2018- 2019.
- **Takhmina,** Development of human-authentication Face Detection Service-Oriented Architecture M.S Thesis, Department of Electrical Engineering and Computing Science New York University, USA, 2018- 2019.
- **Ramina,** Developing biometric attendance system of students, M.S Thesis, Department of Electrical Engineering and Computing Science New York University, USA, 2018- 2019.
- **Varil Patel,** Dual Authentication for Internet of Things, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Unk, Niraj,** Dynamic allocation of slot using MAC protocol, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Kolk, Richard,** Scalable and energy efficient computer vision for text translation, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Patel, Bhaumil,** Confidential Synchronized Anti-Tag Cloning for securing Radio Frequency Identification communication, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Dalal, Hemin Nilesh,** Header encryption of IEEE802. 15.4, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Satwic Mudigulam,** H-LEACH: Hybrid-low energy adaptive clustering hierarchy for wireless sensor networks, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.

- **Chaitanya Kumar Nerella**, Multi-biometric system using Fuzzy Vault, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Nisarg Soni**, Detection and resolving jamming in RFID wireless network using Gauss Elimination method, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Savitesh Jain**, Simultaneous Priority and Detection based Carrier Sense Multiple Access protocol, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Bhanuteja Deekonda**, Intelligent Healthcare Monitoring Using Radio Frequency Identification Detection, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Swapna Khandekar**, Security Analysis of a Social Payment App and Suggested Improvement, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Jingyuan Liang**, Social Payment App and security shortcomings, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Vellanki.M.S**, Node Level Energy Efficiency Protocol for Internet of Things, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **P. R. Kandukuri**, Energy Efficient Routing Protocol for Internet of Things, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Sudha Narendrakumar**, Token security for Internet of Things, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Ahmad Haroon**, Smart bandwidth friendly buffer: Handling overflow in wireless Mesh networks, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2016.
- **Ankur Mantri**, Analytical Evaluation of RSA and RSA with Chinese Remainder Theorem, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Raveendra Kumar**, Pebble Watch security assessment, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Chaitrali Joshi**, P-LEACH: Energy efficient routing protocol for Wireless Sensor Networks, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Peter Oddo**, Power reduction for Smart Homes in an Internet of Things framework, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Soumya Susna**, Healthcare Monitoring and security challenges, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Francis Cung**, Incorporation of weighted linear prediction technique and M/M/1 Queuing Theory for improving energy efficiency of Cloud computing datacenters, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Mansi Joshi**, Novel signature verification process, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Nikhileshwara Reddy Vennapusa**, Task scheduling in Cloud computing, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Saty Siva Varma Nadimpalli**, Secure data sharing in multi-clouds, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.

- **Sai Subramanya Vamsi Chavali**, Trans Receiving Multimedia using Raspberry-Pi, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Dammannagari Nayani Reddy**, Secure Data Sharing in Multi-Clouds, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Parita Parekh**, Analytical Comparison of RSA and RSA with Chinese Remainder Theorem, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Pendli, Vandan**, Improvising performance of Advanced Encryption Standard algorithm, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Haque, Asadul**, ConSec: An encryption policy for context aware security applications, M.S Thesis, Department of Electrical Engineering and Computing Science Cleveland State University, Ohio, USA, 2015.
- **Abeer Abass**, Dynamic Cluster Head Node Election (DCHNE) Model over Wireless Sensor Networks (WSNs), M.S Thesis, Department of Computer Science, University of Bridgeport, 2014.
- **Fatma Almajadub**, Deployment of Stream Control Transmission Protocol (SCTP) to Maintain the Applications of Data Centers, M.S Thesis, Department of Computer Science, University of Bridgeport, USA, 2014.
- **Marwah Almasri**, Analytical Study of Pre-congestion notification (PCN) techniques, M.S Thesis, Department of Computer Science, University of Bridgeport, 2012.
- **Rebaz Maarroof**, Deployment of Law Enforcement Department Using Manhattan Mobility Model over Hybrid Network, M.S Thesis, Department of Computer Science, University of Bridgeport, USA 2012.
- **Wafa Elmannai**, the Deployment of TCP University of Bridgeport (UB) to Control Law Enforcement Department over Wireless Mesh Network, M.S Thesis, Department of Computer Science, University of Bridgeport, USA 2012.
- **Fadel Hussen**, Implementation of Fault Tolerance Algorithm to Restore Affected Nodes in Scheduling Clusters, M.S Thesis, Department of Computer Science, University of Bridgeport, USA, 2012.

➤ **Supervised Undergraduate students (Research Projects)**

Title of Project	Students (Team Members)	Institution/University	Completion Date
Development of two factor authentication criminal investigation system using Blockchain technology	Nuraly Alina, Sanatuly Dinmukhamed, Bakytov Alibek	International Information Technology University, Kazakhstan	May, 2021
Development of Framework to detect Glaucoma	Nursultan Akkyik Issabekov Zeiniken Maya Malimbaeva	International Information Technology University, Kazakhstan	May, 2021
S-BOX Improvement	Zhenxi Xiao Mingqian Liu Meng Chen	New York Institute of Technology, USA	December, 2016
Big Data And Film Recommendation System	Xue Xinpeng Xiao Xiang Huang Yuntian	New York Institute of Technology, USA	December, 2016

Ray Tracer Design	Leo Terry Jim	New York Institute of Technology, USA	December, 2016
Efficient Lost data recovery App	Jingyu Wang Liwen Xu Yuhan Wu	New York Institute of Technology, USA	December, 2016
Privacy Defense in Cloud Computing	Jinghui Zhang Anli Zhong Yun Zhao	New York Institute of Technology, USA	December, 2016
Optimized Homomorphic Encryption Algorithm	Dawid Lenard Derek Ulee Khalil Elassi Martin Kilbane	Cleveland State University, Cleveland, Ohio, USA	May, 2016
Efficient Wireless Network Encryption	Ali Assar Nawar Youssef	Cleveland State University, Cleveland, Ohio, USA	May, 2016
Techniques for Small Scale Devices	Steve Valvoda		
User Authentication Using Biometrics	Ryan Behner Nabih Metri Louis Solymos	Cleveland State University, Cleveland, Ohio, USA	May, 2016

➤ **Courses Taught at Undergraduate/Graduate**

School	Graduate Courses/Undergraduate Courses	08/2019-Present
International Information Technology University, Almaty Kazakhstan	<ul style="list-style-type: none"> UBD 6310 G: Big Data Analysis DM 5205G: Data Mining TZKI2332: Cryptographic Methods of Information Security TZKI2302 U: Technologies for computer information protection Integrated Systems Design for Information Security 	F-19, F-20 S-20 F-19, S-21 F-20 F-19, F-20
School	Graduate Courses/Undergraduate Courses	08/2018---07/2019
New York University, USA	<ul style="list-style-type: none"> ECS 660G: Data Mining ECS 658 G: Cloud Computing ECS 696 G: Deep Learning and Neural Network ECS 656G: Big Data Management 	F-18 F-18 S-19 S-19
School	Graduate Courses/Undergraduate Courses	08/2016---08/2018
New York Institute of Technology, USA	<ul style="list-style-type: none"> CS-443 U: Java Programming CS-339 U: Programming Language concepts CSCI-365 U: Big Data Analytics CS-454 U: Analysis of Algorithms CSCI-300 U: Database Management System CSCI-312 U: Theory of Computation CSCI-355 U: Software Validation and Testing CSCI-345 U: Technology Management CSCI- 610G: Machine Learning 	F-16 F-16 S-17, S-18 S-17, S-18 F-17 F-17, S-18 S-18 SUM-18 SUM-18

School	Graduate Courses/Undergraduate Courses	08/2015-07/2016
Cleveland State University (CSU), USA	<ul style="list-style-type: none"> ▪ EEC-584 G: Computer Networks ▪ EEC-693 G: Secure Cloud Computing ▪ EEC 683/783 G: Computer Networks II ▪ EEC 484 U: Computer Networks ▪ EEC 383 U: Theory of Computation ▪ EEC 693G: Cyber Physical System 	<ul style="list-style-type: none"> F-15, S-16 F-15 S-16 S-16 S-16 S-16
University of Bridgeport USA	<ul style="list-style-type: none"> ▪ CPEG-481G: Wireless Communications ▪ CPSC-400G: Obj Oriented Prgrm W/C++ ▪ CPEG-561G: Network Security ▪ CPSC-590 G: Parallel & Distributed Process ▪ CPSC-345 U: Computer Architecture ▪ CPSC-490 G: Operating System ▪ CSPC-440 G: Advance topics of Information Security ▪ CSPC-412 G: Advanced Wireless Network 	<ul style="list-style-type: none"> ▪ F-11, F-12,F-13,F-14 ▪ F-11, F-12,S-13,F-14 ▪ SU-11, SU-12,SU-13,SU-14 ▪ F-11, F-12,F-13,S-14 ▪ S-11, S-12,S-13,SU-14 ▪ S-12,SU-13,S-14 ▪ S-15 ▪ S-15