

# Sohail Jabbar, Ph.D., Post-Doc.

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## Educational Background

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- Ph.D. (CS), Bahria University, Islamabad, Pakistan** (Sep. 2009 – Nov. 2015)  
*Major Field:* Wireless Communication and Networks  
CGPA 3.80/4.0  
*Supervisor:* Prof. Dr. Abid Ali Minhas  
*Thesis:* Energy Efficient Multi-Layer Design of Wireless Sensor Networks
- MS (Telecommunication and Networking), Bahria University Islamabad, Pakistan** (Sep. 2007- Aug. 2009)  
CGPA 3.83/4.0  
*Supervisor:* Prof. Dr. Abid Ali Minhas  
*Thesis:* Energy Aware Real Time Routing in Wireless Sensor Network
- Bachelor of Computer Science (Honors), Allam Iqbal Open University, Islamabad Pakistan** (1999-2003)  
Division 1st  
*Supervisor:* Mr. Zeeshan Goreja  
*Project:* Inventory Control System
- MBA (Marketing), Mohi-ud-Din Islamic University, AJK** (2003-2005)  
Division 1<sup>st</sup>  
*Supervisor:* Mr. Babak Mehmood  
*Project:* SWAT Analysis of Masood Textile Mills, Faisalabad

## Certification(s)

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- MCSE (Microsoft Certified System Engineer)  (Jan, 2001)
- MCDBA (Microsoft Certified Database Administrator) ID 24196 (Feb, 2001)

## Work Experience

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### ASSISTANT PROFESSOR

**Duration** – (June, 2017 to Date)

**Organization** – Department of Computer Science, National Textile University, Faisalabad, Pakistan

### DIRECTOR GRADUAT PROGRAMS, FACULTY OF SCIENCE

**Duration** – (January, 2018 to Nov. 2018)

**Organization** – National Textile University, Faisalabad, Pakistan

### POST-DOCTORAL RESEARCHER

**Supervisor** – Prof. Dr. Ki Jun Han

**Duration** – (May, 2016 to April, 2017)

*1 Year*

**Organization** – Network Lab, Kyungpook National University, Daegu, S. Korea  
**Research Topics** – Internet of Things, Software Defined Networks

### **ASSISTANT PROFESSOR**

**Duration** – (Sep. 2013 to April, 2016) *Approx. 2.8 Years*  
**Organization** – Department of Computer Science, COMSATS Institute of Information Technology, Sahiwal  
**Teaching Level** – BS (TN), MS(CS)  
**Major Courses** – Advance Operating System, Applied Networking, Mobile and Wireless Communication, Network Programming

### **VISITING LECTURER**

**Duration** – (Fall, 2009 to Summer, 2013) *Approx. 4 Years*  
**Organization** – Department of Computer Science, Bahria University, Islamabad  
**Teaching Level** – BS (CS), MS(T&N)  
**Major Courses** – Telecommunication Network Management, Visual Programming, Data Communication  
**Duration** – (Fall, 2009) *Approx. 6 Months*  
**Organization** – Department of Computer Science, University of Agriculture, Faisalabad  
**Teaching Level** – MCS, MS(CS)  
**Major Courses** – Research Methodology

### **IT CONSULTANT**

**Duration** – (May, 2003 to July, 2007) *Approx. 4 Years*  
**Organization** – Reliance IT Solutions, Commercial Area, Gulistan Colony No. 2, Faisalabad  
**Responsibilities** – Desktop Application Development, Network Design, Deployment, and Troubleshooting

### **RESEARCH AFFILIATIONS**

**Duration** – (Nov., 2012 to Date)  
**Collaborator** – Prof. Dr. Abid Ali Minhas  
**Organization** – College of Computer and Information Systems, Al Yamamah University, KSA

**Duration** – (April, 2016 to Date)  
**Collaborator** – Prof. Dr. Ahmed E. Kamal  
**Organization** – Electrical & Computer Eng., Iowa State University, Ames, USA

**Duration** – (August, 2008 to Date)  
**Collaborator** – Prof. Dr. Shehzad Khalid  
**Organization** – Bahria University Computer Vision and Pattern Recognition Research Group, Islamabad, Pakistan

**Duration** – (September, 2013 to Date)  
**Collaborator** – Prof. Dr. KiJun Han  
**Organization** – Network Lab, Kyungpook National University, South Korea

**Duration** – (September, 2016 to Date)  
**Collaborator** – Dr. Mohammad Hammoudeh  
**Organization** – School of Computing, Mathematics and Digital Technology, Manchester Metropolitan University, Manchester, United Kingdom

**Duration** – (September, 2016 to Date)  
**Collaborator** – Dr. Mounir ARIOUA  
**Organization** – National School of Applied Sciences, Abdelmalek Essaadi University, Tetuan, Morocco.

**Duration** – (Sep. 2016 to Date)

**Collaborator** – Yacine Sam

**Organization** – Computer Science Laboratory, François Rabelais University Tours, France

**Duration** – (April, 2015 to Date)

**Collaborator** – Dr. Kashif Amjad

**Organization** – Inst - Electric/Electron Tech College of North Atlantic, Canada  
and many more...

## Ongoing Research

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- Wireless Sensor Networks
- Internet of Things
- eLearning

## Subjects of Interest

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- Wireless and Mobile Communication
- Computer Communication and Networks
- Research Methodology
- Design and Analysis of Algorithm
- Applied Networking

## Project (s)

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- [P.1] Muhammad Farhan, Javed Ferzund, **Sohail Jabbar**, “Teaching Performance and Student Experience in e-Learning, National ICT R&D Fund for ICT-Related Research and Development Grant, Proposed Budget: 12.345 Million
- [P.2] Muhammad Farhan, **Sohail Jabbar**, Munwar Iqbal, “Smart Career Counselling Assistant”, Higher Education Commission, Pakistan (National Research Program for Universities), Proposed Budget: 2.747655 Million PKR

## Google Citation Report *(as on Dec., 2018)*

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Sohail Jabbar 

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[Wireless Sensor Network](#) [Internet of Things](#) [Big Data Analytics](#)

Cited by

	All	Since 2014
Citations	856	774
h-index	17	16
i10-index	26	23

## Book Chapter(s)

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- [B.1] **Sohail Jabbar**, Abid Ali Minhas, Naveen Chilamkurti "Novel Energy Aware Algorithm to Design Multilayer Architecture for Dense Wireless Sensor Networks", Emerging Innovations in Wireless Networks and Broadband Technologies, Chapter 5, pp. 79 – 114, DOI: 10.4018/978-1-4666-9941-0.ch005, IGI Global Book Series, 2016
- [B.2] Awais Ahmad, Anand Paul, **Sohail Jabbar**, Seungmin Rho, “Energy Efficient Congestion Control in Wireless Sensor Networks” Emerging Innovations in Wireless Networks and Broadband Technologies, Chapter 3, pp. 42 – 66, DOI: 10.4018/978-1-4666-9941-0.ch005, IGI Global Book Series, 2016

## Publications

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### Journals [J] – Total Impact Factor = 80+

- [J.1] Ghulam Shabbir, Adeel Akram, Muhammad Munwar Iqbal, *Sohail Jabbar*, Mai Alfawair, Junaid Chaudhry Network, “Performance Enhancement of Multi-Sink enabled Low Power Lossy Networks in SDN Based Internet of Things”, International Journal of Parallel Programming, Springer, 2018 (IF 1.156)
- [J.2] Muhamad Munwar Iqbal, Muhammad Tahir Mehmood, *Sohail Jabbar*, Shehzad Khalid, Awais Ahmad, Gwanggil Jeon “An enhanced framework for multimedia data: Green transmission and portrayal for smart traffic system”, Computers & Electrical Engineering, Vol. 67, April 2018, Pages 291-308, ISSN No. 0045-7906, <https://doi.org/10.1016/j.compeleceng.2018.03.021> (IF 1.747)
- [J.3] Faisal Riaz, *Sohail Jabbar*, Muhammad Sajid, Mudassar Ahmad, Kashif Naseer, Numan Ali “A Collision Avoidance Scheme for Autonomous vehicles inspired by Human social Norms” Computer and Electrical Engineering, Elsevier, 2018 (IF 1.423)
- [J.4] Muhammad Munwar Iqbal, Muhammad Farhan, *Sohail Jabbar*, Yasir Saleem, Shehzad Khalid “Multimedia based IoT-centric smart framework for eLearning paradigm”, Multimedia Tools and Applications, Springer, 2018 (IF 1.530)
- [J.5] Faisal Riaz, Sania Khadim, Rabia Rauf, Mudassar Ahmad, *Sohail Jabbar*, Junaid Chaudhry “A validated fuzzy logic inspired driver distraction evaluation system for road safety using artificial human driver emotion” Computer Networks, 2018 (IF 2.516)
- [J.6] Farhan Ullah, Jungfeng Wang, Muhammad Farhan, *Sohail Jabbar*, Zhiming Wu, Shehzad Khalid “Plagiarism detection in students’ programming assignments based on semantics: multimedia e-learning based smart assessment methodology” Multimedia Tools and Applications (IF 1.530)
- [J.7] Ibrahim Gafir, Vaclav Prenosil, Mohammad Hammoudeh, Thar Baker, *Sohail Jabbar*, Shehzad Khalid, Sardar Jaf “BotDet: A System for Real Time Botnet Command and Control Traffic Detection” IEEE Access, Vol 6, pp. 38947 – 38958, 2018 (IF 3.244)
- [J.8] *Sohail Jabbar*, Kaleem R. Malik, Mudassar Ahmad, Omer Aldabbas, Muhammad Asif, Shehzad Khalid, Ki J. Han, Syed H. Ahmad, “A Methodology of Real-Time Data Fusion for Localized Big Data Analytics”, IEEE ACCESS, IEEE, 2018 (IF 3.244)
- [J.9] Muhammad Asif Habib, Mudassar Ahmad, *Sohail jabbar*, Syed Hassan Ahmad, Joel J. P. C. Rodrigues, “LEAIoT: A Lightweight Encryption Algorithm towards Low Latency Communication for Internet of Things”, IEEE Consumer Electronic Magazine, Vol. 7, Issue 6, pp. 31 – 37, 2018 (IF 1.153)
- [J.10] Uvais Qidwai, Junaid Chaudhry, *Sohail Jabbar*, Hafiz Maher Ali Zeeshan, Naeem Janjua, Shehzad Khalid, “Using Casual Reasoning for Anomaly Detection Among ECG Live Data Streams in Ubiquitous Healthcare Monitoring Systems”, Journal of Ambient Intelligence and Humanized Computing, Springer, 2018 (IF 1.423)
- [J.11] Farhan Ullah, Junfeng Wang, Muhammad Farhan, *Sohail Jabbar*, Muhammad Kashif Naseer, “LSA based Smart Assessment Methodology for SDN Infrastructure in IoT Environment”, International Journal of Parallel Programming, pp, 1- 16, Springer, 2018 (IF 1.156)
- [J.12] Bushra Zafar, Rehan Ashraf, Nouman Ali, Mudassar Ahmed, *Sohail Jabbar*, Savvas A. Chatzichristofis, “Image classification by addition of spatial information based on histograms of orthogonal vectors”, PLOS One, 2018 (IF 2.806)
- [J.13] B. Zafar, R. Ashraf, N. Ali, M. Ahmad, *Sohail Jabbar*, K. Naseer, A. Ahmad, and G. Jeon, “An intelligent image classification based on spatial weighted histograms of concentric circles,” Computer Science and Information Systems, Vol. 15, Issue 3, pp. 615 – 633, 2018 (IF 0.613)
- [J.14] Ghufran Ahmed, Saif ul Islam, Maham Shahid, Adnan Akhuzada, *Sohail Jabbar*, Muhammad Khurram Khan, Muhammad Riaz, Ki Jun Han, “Rigorous Analysis and Evaluation of Specific Absorption Rate (SAR) for Mobile Multimedia Healthcare”, IEEE ACCESS, IEEE, 2018 (IF 3.24)

- [J.15] Ibrahim Ghafir, Jibrán Saleem, Mohammad Hammoudeh, Hanan Faour, Vaclav Prenosil, Sardar Jaf, ***Sohail Jabbar***, Thar Baker, "Security threats to critical infrastructure: The human factor", The Journal of Supercomputing, Springer, pp, 1-17, 2018 (IF 1.326)
- [J.16] Syeda Mariam Muzammal, Munam Ali Shah, Hasan Ali Khattak, ***Sohail Jabbar***, Ghufraan Ahmed, Shehzad Khalid, Shahid Hussain, Kijun Han, "Counter Measuring Conceivable Security Threats on Smart Healthcare Devices", IEEE ACCESS, 2018 (IF 3.24)
- [J.17] Rehan Ashraf, Mudassar Ahmed, Usman Ahmad, Muhammad Asif Habib, ***Sohail Jabbar***, Kashif Naseer, "MDCBIR-MF: multimedia data for content-based image retrieval by using multiple features", Multimedia Tools and Applications, Springer, 2018 (IF 1.530)
- [J.18] ***Sohail Jabbar***, Muhammad Asif Habib, Abid Ali Minhas, Mudassar Ahmad, Rehan Ashraf, Shehzad Khalid, Kijun Han, "Analysis of Factors Affecting Energy Aware Routing in Wireless Sensor Network", Wireless Communication and Mobile Computing, Hindawi and Wiley, 2018 (IF 1.899)
- [J.19] ***Sohail Jabbar***, Abid Ali Minhas, Mudassar Ahmad, Junaid Chaudhry, "Designing an Energy-Aware Mechanism for Lifetime Improvement of Wireless Sensor Networks: A Comprehensive Study", Mobile Networks and Applications, Springer Volume 23, Issue 3, pp 432–445, 2018 (IF 3.259)
- [J.20] Ibrahim Ghafir, Jibrán Saleem, Mohammad Hammoudeh, Hanan Faour, Vaclav Prenosil, Sardar Jaf, ***Sohail Jabbar***, Thar Baker, "Security threats to critical infrastructure: the human factor", Journal of Supercomputing 2018, Springer. (IF 1.326)
- [J.21] Rehan Ashraf, Mudassar Ahmed, ***Sohail Jabbar***, Shehzad Khalid, Awais Ahmad, Sadia Din, Gwangil Jeon, "Content Based Image Retrieval by Using Color Descriptor and Discrete Wavelet Transform", Journal of Medical Systems, Springer (IF 2.45)
- [J.22] Mudassar Ahmad, ***Sohail Jabbar***, Awais Ahmad, Francisco piccialli, Gwangil Jeon, "A Sustainable Solution to Support Data Security in High Bandwidth Health Care Remote Locations by using TCP CUBIC Mechanism", IEEE Transaction on Sustainable Computing, IEEE, 2017.
- [J.23] Faisal Riaz, ***Sohail Jabbar***, Muhammad Sajid, Mudassar Ahmad, Kashif Naseer, Nouman Ali, "Designing Autonomous Vehicles: Evaluating the Role of Human Emotions and Social Norms", Computers and Electrical Engineering, Elsevier, 2018 (IF 1.52)
- [J.24] Muhammad Munwar Iqbal, Muhammad Farhan, ***Sohail Jabbar***, Yasir Saleem, Shehzad Khalid, "Multimedia based IoT-Centric Smart Framework for eLearning Paradigm", Multimedia Tools and Applications, 2018 (IF 1.530)
- [J.25] M. Farhan, S. Jabbar, M. Aslam, M. Hammoudeh, M. Ahmad, S. Khalid, M. Khan, K. J. Han, IoT-based Students Interaction Framework using Attention-Scoring Assessment in eLearning, Future Generation Computer Systems, Elsevier, Volume 79(3), pp. 909-919, Feb. 2018 (IF 3.997)
- [J.26] Muhammad Farhan, ***Sohail Jabbar***, Muhammad Aslam, Awais Ahmad, Muhammad Munwar Iqbal, Murad Khan, Martinez-Enriquez Ana Maria, "A Real-time Data Mining Approach for Interaction Analytics Assessment: IoT based Student Interaction Framework", International Journal of Parallel Programming, Issue 5, Springer, 2017. (IF 1.156)
- [J.27] Muhammad Tausif, Javed Ferzund, ***Sohail Jabbar***, Raheela Shahzadi, "Towards Designing Efficient Lightweight Ciphers for Internet of Things", KSII Transactions on Internet and Information Systems, Vol. 11, No. 8, Pages 4006 - 4024 2017 (IF 0.456)
- [J.28] ***Sohail Jabbar***, Farhan Ullah, Shehzad Khalid, Murad Khan, Kijun Han, "Semantic Interoperability in Heterogeneous IoT Infrastructure for HealthCare", Wireless Communication and Mobile Computing, Volume 2017 (2017), Article ID 9731806, 10 pages, Wiley (IF 1.899)
- [J.29] Khurram Zeeshan Haider, Kaleem Razzaq Malik, Shehzad Khalid, Tabassam Nawaz, ***Sohail Jabbar***, "Deepgender: real-time gender classification using deep learning for smartphones", Journal of Real Time Image Processing, Springer, pp 1 - 15, 2017 (IF 2.010)
- [J.30] Shehzad Khalid, Sadaf Sajjad, ***Sohail Jabbar***, Hangbae Chang, "Accurate and efficient shape matching approach using vocabularies of multi-feature space representations", Journal of Real-Time Image Processing, Volume 13, Issue 3, pp 449–465 ISSN: 1861-8200 (Print) 1861-8219 (Online), Springer, 2017 (IF 2.010)

- [J.31] Awais Ahmad, Anand Paul, Muard Khan, **Sohail Jabbar**, Muhammad Mazhar Ullah Rathore, Naveen Chilamkurti, Nasro Min-Allah, "Energy Efficient Hierarchical Resource Management for Mobile Cloud Computing", IEEE Transactions on Sustainable Computing, vol. 2, no. 2, pp. 100-112, April-June 2017, doi:10.1109/TSUSC.2017.2714344
- [J.32] Abdelrahman Abuarqouba, Mohammad Hammoudehb, Bamidele Adebisib, **Sohail Jabbar**, Ahcène Bounceurd, Hashem Al-Bashara, "Dynamic Clustering and Management of Mobile Wireless Sensor Networks", Computer Networks, Elsevier, Volume 117, Issue 22 April 2017, Pages 62-75, 2017 (IF 2.516)
- [J.33] Murad Khan, Awais Ahmad, Shehzad Khalid, Syed Hassan Ahmed, Sohail Jabbar, Jamil Ahmad, "Fuzzy based multi-criteria vertical handover decision modeling in heterogeneous wireless networks", Multimedia Tools and Applications, Springer US, Volume 76, Issue 23, pp 24649–2467, 2017 (IF 1.530)
- [J.34] Uzma Jamil, Shehzad Khalid, M.Usman Akram, Awais Ahmad, **Sohail Jabbar**, "Melanocytic and Nevus Lesion Detection from Diseased Dermoscopic Images using Fuzzy and Wavelet Techniques", Soft Computing, Springer, Volume 22, Issue 5, pp 1577–1593, 2017 (IF 2.47)
- [J.35] Muhammad Farhan, Muhammad Aslam, **Sohail Jabbar**, Shehzad Khalid, Mucbeol Kim, "Real-Time Imaging based Assessment Model for Improving Teaching Performance and Student Experience in eLearning", Journal of Real-Time Image Processing, September 2017, Volume 13, Issue 3, pp 491–504 Springer, 2017 (IF 2.010)
- [J.36] Faisal Riaz, Imran Shafi, **Sohail Jabbar**, Shehzad Khalid, Seungmin Rho, "A Novel White Space Optimization Scheme Using Memory Enabled Genetic Algorithm in Cognitive Vehicular Communication", Wireless Personal Communication, Springer, Pages 287 - 309, Volume 93, Issue 2 , Print ISSN 0929-6212, 2017 (IF 0.951)
- [J.37] Farhan Ullah, Muhammad Asif Habib, Muhammad Farhan, Shehzad Khalid, Mehr Yahya Durrani, **Sohail Jabbar**, "Semantic interoperability for big-data in heterogeneous IoT infrastructure for healthcare", Sustainable Cities and Society, Elsevier, Volume 34, October 2017, Pages 90-96 (IF 1.777)
- [J.38] Shehzad Khalid, Bushra Sabir, **Sohail Jabbar**, Naveen Chilamkurti, "Precise shape matching of large shape datasets using Hybrid Approach", Journal of Parallel and Distributed Computing, Volume 110, December 2017, Pages 16-30, Elsevier (IF 1.930)
- [J.39] **Sohail Jabbar**, Murad Khan, Bhagya Nathali Silva, and Kijun Han, "REST based Industrial Web of Things' Framework for Smart Warehousing", The Journal of Supercomputing, Springer, Vol. 74, Issue 9, pp 4419–4433, September 2018 (IF 1.326)
- [J.40] Muhammad Farhan, Muhammad Aslam, **Sohail Jabbar**, Shehzad Khalid, "Multimedia Based Qualitative Assessment Methodology in eLearning: Student Teacher Engagement Analysis", Multimedia Tools and Applications, Volume 77, Issue 4, pp 4909–4923, 2018, Springer. (IF 1.530)
- [J.41] Anand Paul, Awais Ahmad, M. Mazhar Rathore, **Sohail Jabbar**, "SmartBuddy: Defining Human Behaviors Using Big Data Analytics in Social Internet of Things" IEEE Wireless Communications, Pages 68 – 74, Volume: 23, Issue: 5, October 2016 (IF 8.972)
- [J.42] **Sohail Jabbar**, Kashif Naseer, Moneeb Gohar, Seungmin Rho, Hangbae Chang, "Trust model at service layer of cloud computing for educational institutes", Journal of Supercomputing, Pages 58–83, Volume 72, Issue 1, Springer US, DOI 10.1007/s11227-015-1488-7, 2016 (IF 1.326)
- [J.43] Kaleem Razzaq Malik, Tauqir Ahmad, Muhammad Farhan, Muhammad Aslam, **Sohail Jabbar**, Shehzad Khalid, Mucbeol Kim, "Big-Data: Transformation from Heterogeneous Data to Semantically-Enriched Simplified Data" Multimedia Tools and Applications, Volume 75, Issue 20, pp 12727–12747, Springer US, Oct, 2016 (IF 1.530)
- [J.44] **Sohail Jabbar**, Abid Ali Minhas and Seungmin Rho, "Heuristic Approach for Stagnation Free Energy Aware Routing in Wireless Sensor Networks", Ad Hoc & Sensor Wireless Networks, Vol. 31, pp. 21–45, Old City Publishing, Inc. Switzerland, 2016 (IF 1.034)
- [J.45] Murad Khan, Sadia Din, **Sohail Jabbar**, Moneeb Gohar, Hemant Ghayvat, S.C. Mukhopadhyay, "Context-aware Low Power intelligent Smart Home based on Internet of Things", Computers and Electrical Engineering, Elsevier, Vol. 52, pp. 208–222, doi:10.1016/j.compeleceng. 2016.04.014 (IF 1.747)
- [J.46] **Sohail Jabbar**, Abid Ali Minhas, Muhammad Imran, Shehzad Khalid and Kashif Saleem, "Energy Efficient Strategy for Throughput Improvement in Wireless Sensor Networks", Sensors, Vol. 15, Issue 2, 2015, pp. 2473-2495, MDPI Publishers, 15, 2473-2495; doi:10.3390/s150202473 (IF 2.671)

- [J.47] **Sohail Jabbar**, Rabia Iram, Muhammad Imran, Awais Ahmad, Anand Paul, Abid Ali Minhas, Mohsin Iftikhar, "Energy Aware Simple Ant Routing Algorithm for Wireless Sensor Networks," *Mathematical Problems in Engineering*, Vol. 2015, Article ID 194532, 11 pages, ISSN: 1024-123X (Print), ISSN: 1563-5147 (Online) 2015. doi:10.1155/2015/194532 (**IF 1.145**)
- [J.48] **Sohail Jabbar**, Abid Ali Minhas, Moneeb Gohar, Anand Paul, and Seungmin Rho, "E-MCDA: Extended-Multilayer Cluster Designing Algorithm for Network Lifetime Improvement of Homogenous Wireless Sensor Networks," *International Journal of Distributed Sensor Networks*, Article ID 902581, ISSN: 1550-1329 (Print), ISSN: 1550-1477 (Online) (**IF 1.787**)
- [J.49] Moneeb Gohar, Jin-Ghoo Choi, Seok-Joo Koh, Kashif Naseer, and **Sohail Jabbar**, "Distributed Mobility Management in 6LoWPAN-Based Wireless Sensor Networks," *International Journal of Distributed Sensor Networks*, Article ID 620240, Vol. 2015., ISSN: 1550-1329 (Print), ISSN: 1550-1477 (Online) 25<sup>th</sup> Oct. 2015 (**IF 1.787**)
- [J.50] Hilal Jan, Anand Paul, Abid Ali Minhas, Awais Ahmad, **Sohail Jabbar**, Mucbeol Kim, "Dependability and reliability analysis of intra cluster routing technique", *Peer-to-Peer Networking and Applications*, pp 838–850, Springer, Volume 8, Issue 5, pp 838–85, September 2015 (**IF 1.514**)
- [J.51] Kashif Amjad, Muhammad Ali, **Sohail Jabbar**, Majid Hussain, Seungmin Rho, and Mucbeol Kim, "Impact of Dynamic Path Loss Models in an Urban Obstacle Aware Ad Hoc Network Environment," *Journal of Sensors*, Vol. 2015, Article ID 286270, 8 pages, 2015. doi:10.1155/2015/286270 (**IF 2.057**)
- [J.52] Muhammad Tausif, Javed Ferzund, **Sohail Jabbar**, "Emergence of Internet of Things in Current Technological Era: Multifaceted Analysis and Future Considerations", *Journal of Platform Technology*, Vol. 2, No. 3, September, 2014
- [J.53] Shehzad Khalid, Sannia Arshad, **Sohail Jabbar**, and Seungmin Rho, "Robust Framework to Combine Diverse Classifiers Assigning Distributed Confidence to Individual Classifiers at Class Level", *The Scientific World Journal*, Volume 2014 (2014), Article ID 492387, 14 pages, http://dx.doi.org/10.1155/2014/492387
- [J.54] Awais Ahmad, **Sohail Jabbar**, Anand Paul, Seungmin Rho, "Mobility aware energy efficient congestion control in wireless sensor network", *International Journal of Distributed Sensor Networks*, Vol. 2014, 4th March, ISSN: 1550-1329 (Print), ISSN: 1550-1477 (Online) 2014 (**IF 1.787**)
- [J.55] **Sohail Jabbar**, Abid Ali Minhas, Anand Paul, Seungmin Rho, "Multilayer Cluster Designing Algorithm for network life time improvement of homogenous wireless sensor networks", *Journal of Supercomputing*, Journal No. 11227, Vol. 70, Issue, 1, Pages 104 – 132, Springer US, January 2014 (**IF 1.326**)
- [J.56] **Sohail Jabbar**, Rabia Iram, Abid Ali Minhas, Imran Shafi, Shehzad Khalid, Muqeeb Ahmad, "Intelligent optimization of energy aware routing in wireless sensor network through bio-inspired computing: survey and future directions", *International Journal of Distributed Sensor Networks*, Vol. 9, Issue 2, Article ID 421084, 13 pages, 2013 (**IF 1.787**)
- [J.57] Raja Adeel Akhtar, Abid Ali Minhas, **Sohail Jabbar** "Energy aware intra-cluster routing for wireless sensor networks", *International Journal for Hybrid Information Technology*, Vol. 3, No. 1, January 2010

### **Under Review:**

- [J.58] Hasan Ali Khattak, Hafsa Arshad, Saif Ul Islam, Ghufuran Ahmed; **Sohail Jabbar**, Abdullahi Sharif, Shehzad Khalid, "Utilization and Load Balancing in Fog Servers for Health Applications", *EURASIP Journal on Wireless Communications and Networking* (**IF 1.239**)
- [J.59] Asfa Toor, Saif Ul Islam, Ghufuran Ahmed, **Sohail Jabbar**, Shahzad khalid, Abdullahi Sharif, "Energy Efficient Edge-of-Things", *EURASIP Journal on Wireless Communications and Networking* (**IF 1.239**)

### **Conferences [C]**

- [C.1] **Sohail Jabbar**, Kaleem Razzaq Malik, Mudassar Ahmad, "Real-time RDF Adaptation Model for Smart Human-Care Querying in IoT based Mobile Applications", *ICFNDS'18*, 26-27 June, Amman, Jordan

- [C.2] Naeem Raza, **Sohail Jabbar**, Hihun Han, KiJun Han, "Social Vehicle-to-Everything (V2X) communication model for Intelligent Transportation Systems based on 5G scenario", ICFNDS'18, 26-27 June, Amman, Jordan
- [C.3] **Sohail Jabbar**, Kaleem Razzaq Malik, Muhammad Imran, "Enabling Smart Querying on Mobile Sensor's Data Using Semantical Annotation", 42nd Conference on Local Computer Networks (LCN'17), October 2017
- [C.4] **Sohail Jabbar**, Muhammad Farhan, Jin Li, Haseeb Ahmad, Awais Ahmad, "IoT based Smart Interaction Framework for eLearning", 33<sup>rd</sup> ACM /SIGAPP Symposium On Applied Computing (SAC 2018), pp. 664-669, Pau, France, April, 2018
- [C.5] Ahcene Bounceur, Madani Bezoui, Umer Noreen, Reinhardt Euler, Mohammad Hammoudeh, **Sohail Jabbar**, "LOGO: A New Distributed Leader Election Algorithm in WSNs with Low Energy Consumption", ICFITT EAI International Conference on Future Internet Technologies and Trends, Aug 2017, Surat, India
- [C.6] **Sohail Jabbar**, Abid Ali Minhas, Mudassar Ahmad, Syed Hassan Ahmad, "A Novel Energy Aware Design for Clustered Wireless Sensor Networks", International Conference on Future Intelligent Vehicular Technologies, Springer, Future 5v 2017, EAI, Islamabad, Pakistan.
- [C.7] Moneeb Gohar, **Sohail Jabbar**, "Use of Host Identity Protocol for Mobility Control in SAE-based Mobile Networks", 13th International Bhurban Conference on Applied Sciences & Technology, 12 to 16 January, 2016, Islamabad, Pakistan
- [C.8] Kashif Naseer, **Sohail Jabbar**, Ifran Zafar, "A Novel Trust Model for Selection of Cloud Service Provider", IEEE, World Symposium on Computer Applications & Research, WSCAR' 2014, 18-20 January, Sousse, Tunisia
- [C.9] Muhammad Uzair, Tahir Rasheed, **Sohail Jabbar**, Anand Paul, Awais Ahmad, Alfred Daniel, "Analytical Study on WiMAX Security: Vulnerabilities, Threats and Solutions", 20th -23rd September, 2014, ICOT 2014, Xi'an, China
- [C.10] Sajjad Hussain Shah, Wajid Ali, Israr Ahmad, **Sohail Jabbar**, "Performance Analysis of Queuing Mechanism in Voice Applications", The 2012 International Conference of Wireless Networks, London, U.K., 4-6 July 2012
- [C.11] Mubashir Saeed, Syed Osama Hassan, **Sohail Jabbar**, "Time Synchronization in Wireless Sensor Network: Techniques, Issues and Recommendations", The 11th International Conference on Wireless Networks (ICWN'12), July 16-19, 2012, LAS Vegas, USA
- [C.12] Majid Qayyum, **Sohail Jabbar**, Farooq Azam, Shehzad Rizwan, "Stagnant Free Ant Based Heuristic Routing in Wireless Sensor Network", International Conference on Collaboration Technologies and Systems (CTS'12 - CMSSN 2012), 21-25 May, 2012, Denver, Colorado, USA
- [C.13] Abdullah, **Sohail Jabbar**, Shaf Alam, Abid Ali Minhas "Location Prediction for Improvement of Communication Protocols in Wireless Communications: Considerations and Future Directions", International Conference On Communications Systems and Technologies 2011 (ICCST'11) Held on 19th – 21st October, 2011 in San Francisco, USA
- [C.14] Rabia Iram, Irfan Sheikh, **Sohail Jabbar**, Abid Ali Minhas, "Computational Intelligence Based Optimization in Wireless Sensor Network", (IEEE), ICICT'11, July 23rd to 24th, 2011 at IBA, Karachi, Pakistan
- [C.15] **Sohail Jabbar**, Awais Ahmad, Ataul Aziz Ikram, Murad Khan, "TSEEC - TS/TDMA Based Energy Efficient Congestion Control in Mobile Wireless Sensor Network", International Conference on Communications Systems and Technologies 2011 (ICCST'11), Held on 19th – 21st October, 2011 in San Francisco, USA ([nominated for best research paper](#))
- [C.16] Sajjad Hussain Shah, Kashif Naseer, Wajid Ali, **Sohail Jabbar**, Abid Ali Minhas, "Prolonging The Network Life Time in WSN Through Computational Intelligence", International Conference On Internet and Multimedia Technologies 2011 (ICIMT'11) Held on 19th – 21st October, 2011 in San Francisco, USA
- [C.17] Rabia Iram, Muhammad Irfan Sheikh, **Sohail Jabbar**, Abid Ali Minhas, "Computational Intelligence Based Optimization of Energy Aware Routing in WSN", International Conference on Soft Computing and Applications (ICSCA'11) Held on 19th – 21st October, 2011 in San Francisco, USA



- [C.18] **Sohail Jabbar**, Ayesha Ejaz Butt, Najm-us-Sehr, Abid Ali Minhas, “TLPER: Threshold Based Load Balancing Protocol for Energy Efficient Routing in WSN”, The 13th International Conference on Advanced Communication Technology (ICACT’11), 13th to 16th Feb 2011, Seoul, South Korea
- [C.19] **Sohail Jabbar**, Muhammad Zubair Aziz, Abid Ali Minhas, Danial Hussain “PTAL: Power Tuning Anchors Localization Algorithm for Wireless Ad-Hoc Micro Sensors Network”. (IEEE), ICES’2010, 29th June – 2nd July, 2010, Bradford, UK
- [C.20] Abid Ali Minhas, **Sohail Jabbar**, Muhammad Zubair Aziz, Waiser Mahmood, “QERT: Query-Based Energy-Aware Real-Time Routing for Wireless Sensor Network”, (IEEE), ScalCom’2010, 29th June – 2nd July, 2010, Bradford, UK
- [C.21] **Sohail Jabbar**, Abid Ali Minhas, Raja Adeel Akhtar, Muhammad Zubair Aziz, “REAR: Real-Time Energy-Aware Routing for Wireless Sensor Network”, PICom09, (IEEE), December 12-14, 2009, Chengdu, China
- [C.22] **Sohail Jabbar**, Abid Ali Minhas, Raja Adeel Akhtar “SPERT: A Stateless Protocol for Energy-Sensitive Real-Time Routing for Wireless Sensor Network”, (IEEE), ICICT’09, August 15th to 16th, 2009 at IBA, Karachi, Pakistan
- [C.23] **Sohail Jabbar**, Abid Ali Minhas, “Energy-Aware Real-Time Communication in Wireless Ad-Hoc Micro Sensors Network”, (ACM), FIT 2009 Ph.D. Symposium, December 16-18, 2009, COMSATS, Abbottabad, Pakistan
- [C.24] Raja Adeel Akhtar, Abid Ali Minhas, **Sohail Jabbar**, “AICR: Adaptive Intra-Cluster Routing for Wireless Sensor Network”, (ACM), ICHIT’09, August 27th to 29th, 2009, Daejeon, Korea

## Invited Talk

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- Sohail Jabbar, “Application of Ant Colony Optimization in Network Routing”, Department of Computer Science, Kyungpook National University, Daegu, South Korea, 2016
- Sohail Jabbar, “Internet of Things: An Emerging Concept for Smart Global Village”, National Textile University, Faisalabad, Pakistan, March, 2017
- Junaid Chaudhry, and Sohail Jabbar, “Cyber Physical Issues in Medical and Healthcare Infrastructure” National Textile University, Faisalabad, Pakistan, Nov. 2017
- Kaleem Razzaq Malik, and Sohail Jabbar, "Understanding Transformation of Data Forms", 7th May, 2018
- Muhammad Farhan, and Sohail Jabbar, "Data Science Tools", 11th Mar, 2018

## Honors and Awards

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- Travel Grant (**Amman, Jordan**) from HEC for research paper presentation in conference organized by Middle East University, Amman, 2018
- **Research Productivity Award** by COMSATS Institute of Information Technology in 2016
- **BK-21 Plus Fellowship** from S. Korea for Post Doctorate in 2016
- Win **ICT R&D funding** for an undergraduate project as supervisor in 2015
- **Research Productivity Award** by COMSATS Institute of Information Technology in 2015
- **Best Student Researcher Award** of the Year, 2014 from Bahria University
- **Research Productivity Award** by COMSATS Institute of Information Technology in 2014
- **Member of best paper award** committee for articles published in 2013 in IJACSA
- Travel Grant (**Cebu, Philippines**) from HEC for Research Paper presentation in IEEE Conference, 2012
- **Letter of Appreciation** from Honorable Rector of Bahria University on Research Publication and its presentation in a conference at **UCLA, Berkeley**, 2011
- Travel Grant (**San Francisco, USA**) from HEC for research paper presentation in conference organized by IAENG (International Association of Engineers), 2011
- Travel Grant (**Phoenix park, S. Korea**) from HEC for Research Paper presentation in IEEE Conference, 2011
- **Best paper nomination** in World Congress on Engineering and Computer Science 2011, San Francisco, USA.
- Travel Grant (**Chengdu, China**) from HEC for Research Paper presentation in IEEE Conference, 2009
- Achieved **1<sup>st</sup> division** throughout of my Academic Career
- Completed MS (T&N) with the **Magna Cum Laude honor** (Silver Medalist), 2009

- **MS Leading to Ph.D. Scholarship** from Higher Education Commission, Islamabad, Pakistan, 2007 – 2012

## **Reviewer/Editorial/Program Chair/Technical Program Committees**

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### ▪ **Reviewer**

#### ○ Journals (SCIE Indexed)

- Journal of Grid Computing, Springer
- Journal of Supercomputing, Springer
- ACM Transaction on Embedded Computing System, ACM
- Multimedia Tools and Applications, Springer
- Ad Hoc & Sensor Wireless Networks, Old City Publishers
- Future Generation Computer Systems, Elsevier
- Mathematical Problems in Engineering, Hindawi Publishers
- Peer-to-Peer Networking and Applications, Springer
- IEEE Access, IEEE
- Computer and Electrical Engineering, Elsevier
- and many more...

#### ○ Conferences (Reviewer/TPC Member)

- International Conference on Big Data, Cloud and Applications, Kenitra, Morocco, 2018
- International Conference on Future Networks and Distributed Systems, Amman, Jordan, 2018.
- International Conference on Advances in Computing, Communications and Informatics, Bangalore, India, 2018.
- International Conference on Communication, Computing, and Digital Systems, Islamabad, 2017.
- International Workshop on Internet of Things and Smart Systems, Tetuan, Morocco, 2017.
- ACM Symposium on Applied Computing (ACM SAC), Morocco, 2017.
- ACM International Conference on Future Networks and Distributed Systems, Manchester, UK, 2017.
- IEEE International Conference on Advanced Communications Technology, South Korea, (2016, 2017).
- ACM Symposium on Applied Computing (ACM SAC 2015, 2016).
- and many more...

### ▪ **Guest Editor**

- *“Future Communication Trends Towards Internet of Things Services and Applications”*, IEEE Wireless Communications, IEEE (Status: [Available Online – Open](#))
- *“Real-time Behavioral Monitoring in IoT Applications using Big Data Analytics”*, Concurrency and Computation, Practice and Experience, Wiley (Status: [Available Online - Closed](#))
- *“Enabling Technologies for Social Internet of Things”*, Future Generation Computer Systems, Elsevier (IF - 3.997) (Status: [Available Online - Closed](#))
- *“Current and Prospective Challenges in Cyber Physical Systems for Personalized U-Healthcare”*, Cyber Physical Systems, Taylor & Francis Online, *Scopus Indexed* (Status: [Available Online - Closed](#))
- *“Smart Standards, Algorithms and Frameworks for Interoperability in Internet of Things”* Journal of Information Processing Systems, *ISI Indexed* (Status: [Available Online - Closed](#))
- *“Software Defined Networking: Trends, Challenges and Prospective Smart Solutions”*, Peer-to-Peer Networking and Applications, Springer, (IF-1.00) (Status: [Available Online - Closed](#))

### ▪ **Conference/Workshop Chair**

- International Workshop on Smart Technologies (WOSTech'18) in association with ICFNDS'18, Amman, Jordan, June 26-27, 2018

- The International Workshop on Enabling Communications and Networking for Future Internet (WECNet'18), in association with IEEE 42nd Conference of Local Computer Networks (LCN'17), Oct. 1-4, 2018, Chicago, USA
- The International Workshop on Enabling Networking and Communication and Technology (ENCoT'18), in association with The 15th International Conference on Mobile Systems and Pervasive Computing (MOBISPC'18), August 13-15, 2018, Gran Canaria, Spain
- The International Workshop on Smart Technologies (WOSTech), in association with The International Conference on Future Networks and Distributed Systems (ICFNDS'17), Cambridge, 9-20 July, 2017
- The International Workshop on Enabling Communications and Networking for Future Internet (WECNet'17), in association with IEEE 42nd Conference of Local Computer Networks (LCN'17), Oct. 9-12, 2017, Singapore

## Member of Committees

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- Member, Faculty Board of Studies, Khawaja Fareed University of Engineering and Information Technology, Rahim Yar Khan
- Member, Departmental Board of Studies, National Textile University, Faisalabad.
- Member, Research Monitoring Committee for PhD Program, UET Texila
- Chairman, Supervisory Committee at Paktoonkhwa Agricultural University, Peshawar
- Member, Supervisory Committee at Bahria university, Islamabad
- Member, Undergraduate Project Evaluation Committee at CIIT Sahiwal
- Convener, MS Thesis Evaluation Committee at CIIT Sahiwal
- Member, MS Admission Interview Committee at CIIT Sahiwal
- Member, Departmental Research Committee at CIIT Sahiwal
- Member, Faculty Hiring Committee at CIIT Sahiwal
- Research Coordinator at Dept. of CS, CIIT, Sahiwal

## Theses, Projects Supervision \ Co-Supervision

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### Ph.D. Theses [D]

- [D.1] Bushra Zafar, “*An Intelligent Image Classification Model Using Bag-of-Visual Words*”, National Textile University, Faisalabad, Pakistan (**Status:** *Synopsis approved*) – Co-Supervisor
- [D.2] Shahbaz Ahmad, “*Web GIS Based Surveillance and Prediction System for Dengue Virus in Punjab, Pakistan*”, National Textile University, Faisalabad, Pakistan (**Status:** *Synopsis approved*) – Co-Supervisor
- [D.3] Muhammad Yasir, “*An Efficient Technique to Mine Association Rules in Large Database*”, National Textile University, Faisalabad, Pakistan (**Status:** *Synopsis approved*) – Co-Supervisor

### Theses [T]

- [T.1] Zubair Aziz, (2009), “*Novel Power Tuning Anchors Localization Algorithm for Mobile Wireless Sensor Network*”, MS (TN) Dissertation, Bahria University, Islamabad, Pakistan
- [T.2] Awais Ahmed, (2010), “*TS/TDMA Based Energy Efficient Congestion Control in Mobile Wireless Sensor Network*”, MS (TN) Dissertation, Bahria University, Islamabad, Pakistan
- [T.3] Rabia Iram, (2011), “*Energy Aware Simple Ant Routing Algorithm for Mobile Wireless Sensor Network*” MS (TN) Dissertation, Bahria University, Islamabad, Pakistan
- [T.4] Majid Qayyum, (2011) “*ACO-Based Stagnant Free Energy Efficient Routing in Wireless Sensor Network*”, MS (CS) Dissertation, Khyber Pakhtunkhwa Agriculture University, Peshawar, Pakistan
- [T.5] Muhammad Atif, (2012), “*Cluster Based Routing Using Energy Aware Technique for Wireless Sensor Network*”, MS (TN) Dissertation, Bahria University, Islamabad, Pakistan
- [T.6] Sajjad Hussain Shah, (2012), “*Novel Data Aggregation Technique for Energy Efficient Wireless Sensor Network*”, MS (TN) Dissertation, Bahria University, Islamabad, Pakistan
- [T.7] Wajid Ali, (2012), “*EECD – Energy Efficient Cluster Designing Algorithm for Improved Performance of Wireless Sensor Network*”, MS (TN) Dissertation, Bahria University, Islamabad, Pakistan

- [T.8] Kashif Naseer, (2013), “Trust Model for Service Layer of Cloud Computing for Educational Institutes”, MS (CS) Dissertation, University of Engineering and Technology, Taxila.
- [T.9] Muhammad Tousif, (2016), “Light Weight Cryptography Solution for Internet of Things”, MS (CS) Dissertation, COMSATS Institute of Information Technology, Sahiwal
- [T.10] Farhat Kanwar, (2016), “Energy Efficient Big Data Aggregation in Internet of Things”, MS (CS) Dissertation, COMSATS Institute of Information Technology, Sahiwal
- [T.11] Osama Ahmad, (2016), “Energy Efficient Big Data Gathering in Wireless Sensor Network”, MS (CS) Dissertation, COMSATS Institute of Information Technology, Sahiwal
- [T.12] Zain-ul-Abidin, (2016), “Securing Cognitive Radio Network from Denial of Service Attack”, MS (CS) Dissertation, COMSATS Institute of Information Technology, Sahiwal
- [T.13] Muhammad Nasir, (2016), “Cluster Base Routing for Life Time Improvement of Linear Wireless Sensor Network”, MS (CS) Dissertation, COMSATS Institute of Information Technology, Sahiwal
- [T.14] M. Laeeq Ur Rehman, (2016), “Future of IOT in Pakistan: A Case Study from IT Industry”, MS (CS) Dissertation, COMSATS Institute of Information Technology, Sahiwal
- [T.15] Rehman Shahid, "An Automated Machine Learning Classifier to Evaluate the Response of Arab World Towards KSA Vision 2030", MS(CS) Dissertation, National Textile University, Faisalabad
- [T.16] Mudassar Sattar Salfi, "A Longitudinal Study on Personality Change of Undergraduate Students Through Social Media: A Descriptive Analytics Approach", MS(CS) Dissertation, National Textile University, Faisalabad
- [T.17] Adeel Shehzad, "MEC Based 5G Internet-of-Vehicles Network to Address Latency and Resource Efficiency", MS(CS) Dissertation, National Textile University, Faisalabad
- [T.18] Muhammad Umair, "An Improved Content-Based Recommender System for Computer Science Publications", MS(CS) Dissertation, National Textile University, Faisalabad
- [T.19] Nabeela Ashraf, "The effect of Design Artifacts on Consumer Behavioral Intention through Emotions and Cognitive Absorption in M-commerce", MS(CS) Dissertation, National Textile University, Faisalabad
- [T.20] Rida Shaheen, "Rating the most emergent educational technologies in 2014-2018: A prescriptive analytics based approach", MS(CS) Dissertation, National Textile University, Faisalabad
- [T.21] Fatima Shahid, "A Quantitative Study of Anchors' Biases and Public Response Towards Recent Political Scenario of Pakistan", MS(CS) Dissertation, National Textile University, Faisalabad

### **Graduate and Under Graduate Projects [G]**

- [G.1] Ayesha Ejaz Butt and Najm Us Sehr, (2010), “WSN Based Online Monitoring System”, Degree Project of BS (IT), Khan Institute of Science and Information Technology, Kahota, Pakistan
- [G.2] Muhammad Riaz, (2011), “LAN Monitoring System”, MSC(CS), Bahria University, Islamabad, Pakistan
- [G.3] Saadullah Siddiqui, Khawaja Adnan, (2012) “Temperature Monitoring of Ammunition Depot Using Wireless Sensor Network”, Degree Project of BS (CS), Bahria University, Islamabad, Pakistan ([2<sup>nd</sup> Position in FYP Project Competition](#))
- [G.4] Hafiz Saad Shamsi, Ahsan Rasheed, Ahmad Amin, (2014), “IP Based Home Automation for Visually Impaired Person”, Degree Project of BS (T&N), COMSATS Institute of Information Technology, Sahiwal
- [G.5] Muhammad Usman Nasir, Irfan Hassan, (2014), “CIIT Vehicle Tracking System Using GPS, GSM and Android System”, Degree Project of BS (T&N), COMSATS Institute of Information Technology, Sahiwal
- [G.6] Muhammad Haseeb, (2014), “Voice Based Android Mobile Application for Visually Impaired People”, Degree Project of BS (T&N), COMSATS Institute of Information Technology, Sahiwal
- [G.7] Muhammad Roman, Muhammad Ahmad, Umar Bukhari, (2014), “Secure Automatic Water Distribution System, Degree Project of BS (T&N), COMSATS Institute of Information Technology, Sahiwal
- [G.8] Shamas Ur Rehman, Hassan Razzaq, Haseeb Tariq, Shahid Imam, (2014), "Unmanned Ariel Vehicle Control Over Internet", Degree Project of BS (T&N), COMSATS Institute of Information Technology, Sahiwal

- [G.9] Muhammad Fahad, Muhammad Shehzad, (2015), “Visible Light based Communication System for High Data Rate Real Time Applications”, Degree Project of BS (T&N), COMSATS Institute of Information Technology, Sahiwal ([ICT R&D funded project](#))
- [G.10] Muhammad Waqas Nazar, Aamir Shehzad, Rubi Kiran (2015), “Design and Implementation of Miniature Passive Device to Enable Smart Phones/Devices for VLC”, Degree Project of BS (T&N), COMSATS Institute of Information, Sahiwal
- [G.11] Mohsin Raza, Farhan Ahmad, Farhan Akhtar, (2016), “Smart Triage System Towards Catastrophic Resuscitation”, Degree Project of BS (T&N), COMSATS Institute of Information, Sahiwal
- [G.12] Tasib Ali, Muhammad Kashif (2016), “Smart Dumpsters Monitoring and Garbage Collection”, Degree Project of BS (T&N), COMSATS Institute of Information, Sahiwal
- [G.13] Naeem Farooq, Umar Ilyas, Muhammad Javed Iqbal, Rao Muhammad Waqas, (2016), “Intelligent Robot-Assisted Humanitarian Search and Rescue System”, Degree Project of BS (T&N), COMSATS Institute of Information, Sahiwal
- [G.14] Zahra Siraj, Hafsa Khalid, (2016), “RFID TAGS based automated administration”, Degree Project of BS (T&N), COMSATS Institute of Information, Sahiwal

## References

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