

CURRICULUM VITAE OF MD SHARIFUL ISLAM

MD. SHARIFUL ISLAM, PhD

Professor

Department of Information and Communication Technology

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ResearchGate: https://www.researchgate.net/profile/Md-Islam-852?ev=hdr_xprf

Google Scholar: <https://scholar.google.com/citations?user=O21pYI0AAAAJ>

Date of Birth: 21 September, 1976

NID: 9551352058

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Education

PhD

Department of Information and Communication Technology, Islamic University, Kushtia-7003, Bangladesh.

Research title: Enhancement of Viewing Angle Resolution and Depth Range of a Three-Dimensional Display System Using Integral Imaging.

M.Sc. (Thesis group)

Previous name of the Department: Applied Physics, Electronics and Communication Engineering, Presently the name of the Department: Electrical and Electronic Engineering 2000 (Exam held in 2003), Department of Electrical and Electronic Engineering, Islamic University, Kushtia-7003, Bangladesh

Result: First class (Second position in the merit list).

Thesis title: “Study of the Adaptive Huffman data compression algorithm and measurements of it’s Performance”

B.Sc. (Honors)

Previous name of the Department: Applied Physics, Electronics and Communication Engineering,
Presently the name of the Department: Electrical and Electronic Engineering 1999 (Exam held in 2001),
Department of Electrical and Electronic Engineering, Islamic University, Kushtia-7003, Bangladesh

Result: First class (Third position in the merit list)

Major Courses Studied in B.Sc. (Honors): Electro technology-I, II, III, Analog Electronics-I,II,III, Modern Physics and Applied Optics, Solid State Electronics, Digital Electronics, Telecommunications, Hybrid Microelectronics, Microwave and Fabrication Technology, Electromagnetics, Computing, Power Electronics, Microwave and Optical Fiber Communications, Data Communications, Microprocessor and Computer, Computer Aided Design.

Major Courses Studied in M.Sc. (Thesis): Advanced Electronics, Electronic Communication, Computer Organization and Architecture, Numerical Analysis and Computer Programming.

Chairmanship: 22 May, 2016 to 23 May, 2019

Professional experience

September 2004 ~ 2007, Lecturer, Department of Information & Communication Technology, Islamic University, Kushtia-7003, Bangladesh.

September 2007 ~ 2014, Assistant Professor, Department of Information & Communication Technology, Islamic University, Kushtia-7003, Bangladesh.

November 2014 ~ 2019, Associate Professor, Department of Information & Communication Technology, Islamic University, Kushtia-7003, Bangladesh.

November 2019 ~ till now, Professor, Department of Information & Communication Technology, Islamic University, Kushtia-7003, Bangladesh.

Others Experiences:

Chairmanship: 2016 to 2019, Department of Information and Communication Technology, Islamic University, Kushtia-7003, Bangladesh.

House Tutor: 2007 to 2009, Ummul Mumenin Aisha Shidikka Hall, Islamic University, Kushtia-7003, Bangladesh.

Additional director: ICT Cell, 2025 to 2026, Islamic University, Kushtia-7003, Bangladesh.

Currently Teaching Courses:

Digital Electronics, Electronics Devices and Circuits, Programming in C/C++, Discrete Mathematics and Numerical Methods, Optical Fiber Communications, Data Structure and Algorithm, Computer Architecture and Organization, Communication Systems, Electromagnetic Theory and Antenna, Electronic Communication, Data Communication, Microprocessor, Virtual Environment and Multimedia, Digital Signal Processing, Mobile Cellular Communication, Information Coding and Transmission, Advanced Digital Communication.

Recently Thesis Supervision in M.Sc.:

1. Analyzing Bit Error Rate of NOMA in AWGN and Rayleigh Fading Channels Using Simulation, 2023
2. Analyzing Different Path Loss Models for 4G, 5G, and 6G Mobile Wireless Communication, 2023
3. Multipath Fading for 4G, 5G, and 6G Cellular Wireless Communication, 2023
4. Study and Analysis of Atmospheric Propagation Impairments for Wireless Communications, 2019
5. Cardiac Disorder Classification Using Wavelet Based Features and Support Vector Machines, 2018
6. Study and Analysis of Different Radio Channel Modeling for Mobile Ad-Hoc Wireless Networks, 2018
7. Study and Analysis the Performance of Massive MIMO Systems with Multi-Antenna Users, 2018

Research Interested

Wireless Communication, Optoelectronics devices, Integral Imaging 3D display Technology, Image Processing

Published Journal Papers

1. Rakib Rayhan, Jobaida Sultana, Aysha Akter , **Md. Shariful Islam** , Md. Ashek Raihan Mahmud and Md. Shahjahan Ali, “Analyzing the BER of NOMA in Different Channels with Various Path Loss Models and Multipath Fading for Contemporary Cellular Wireless Communications”, International Journal on Electrical Engineering and Informatics - Volume 16, Number 3, September 2024
2. Md. Abdur Razzaque, Md. Ashek Raihan Mahmud, **Md. Shariful Islam**, “Examining the ability of Advanced Systems of Wireless Communication Enhanced by IRS Technology” Indonesian Journal of Electrical Engineering and Informatics (IJEI) Vol. 12, No. 2, June 2024, pp. 266~280
3. **Md. Shariful Islam**, Md. Ashek Raihan Mahmud, Md Khalid Hossain Jewel, "MIMO System Capacity based on Multiple fading channels and varying numbers of antennas including the comparison of MIMO-NOMA and MIMO-OMA", Indonesian Journal of Electrical Engineering and Informatics (IJEI) Vol. 11, No. 4, December 2023, pp. 1025~1037
4. **Md. Shariful Islam**, Md. Ashek Raihan Mahmud, Md. Jashim Uddin, " Analysis of the Feasibility and Constraints of Implementing Next-Technology Mobile Networks in Bangladesh with its Outcomes on Human Body", International Journal of Engineering Trends and Technology, Volume 70 Issue 10, 339-349, October 2022
5. Md. Sadek Ali, **Md. Shariful Islam**, Muhammad Asif, Wali Ullahkhan, (member, IEEE), Fujiang Lin (senior member, IEEE), Omerwaqar ,(member, IEEE)," On Efficient DCT Type-I Based LowComplexity Channel Estimation forUplink NB-IoT Systems", IEEE Access, 2022
6. **Md. Shariful Islam**, Md. Sadek Ali, Md. Ashek Raihan Mahmud, and Md. Jahim Uddin, " Analyzing the Effect of Radiation on Human beings of Electromagnetic waves from BTSand MS in Kushtia, Bangladesh ", Turkish Journal of Computer and Mathematics Education, Vol.12 No.10(2021), 448-458
7. PallabKanti Podder, Tarun Debnath, Md. Omar Faruk, **Md. Shariful Islam**, " A Microcontroller Based Efficient Scheduling System for AirConditioner Focusing on Maximum Electricity Savings UsingPWM Concept ", International Journal of Advanced Trends in Computer Science and Engineering, Volume 10, No.2, March - April 2021
8. Sharmin Tazria Ananya, **Md. Shariful Islam**, Md. Ashek Raihan Mahmud, Pallab Kanti Podder and Md. Jashim Uddin, “Atmospheric Propagation Impairment Effects for Wireless Communications”, International Journal of Wireless & Mobile Networks (IJWMN) Vol. 12, No. 3, June 2020
9. **Md. Shariful Islam**, Md. AshekRaihan Mahmud, Md. Jashim Uddin, PallabKanti Podder, “ An Analytical Analysis of Pathloss Models for Mobile Cellular Wireless Communications”, International Journal on Cybernetics & Informatics (IJCI) Vol. 9, No.1/2/3, June 2020
10. Md. Khanjahan Ali, Md. Ashek Raihan Mahmud, **Md. Shariful Islam**, Khandaker Takdir Ahmed, “A Comparative Study and Analysis of three Routing Protocols (AODV, DSDV, DSR) in Mobile Ad hoc Network bearing CBR Traffic ”, IJSER, Vol.7, Issue 12, December-2016
11. **Md. Shariful Islam**, Md. Tariquzzaman, Md. Abdur Razzaque, Tapan Kumar Godder, Md. Zahidul Islam. “Depth-of-focus Resolution and Viewing angle Improvement of Integral Imaging System Using Multi-directional Projections and Non-uniform lenslets Array with Intermediate View Reconstruction Method” Research Journal of Applied Sciences, Engineering and Technology (RJASET) 02/2016; 12(3). DOI:10.19026/rjaset.12.2336
12. **Md. Shariful Islam**, Md. Tariquzzaman, Md. Abdur Razzaque. “Viewing angle improvement of integral imaging three dimensional display system using horizontal and vertical multi-directional projections and elemental image rearranging method with pepper and salt noise reduction” IJSER, Vol.6, Issue 6. June-2015.

13. Md. Zahidul Islam, **Md. Shariful Islam**, Md. Sohel Rana, "Problem Analysis of Multiple Object Tracking System: A Critical Review" **International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)** Vol. 4, Issue 11, November 2015.
14. **Md. Shariful Islam**, Md. Tariquzzaman. "Computer Generated Integral Imaging System Using Depth Camera" *International Journal of Computer Science and Information Technology Research* ISSN 2348-120X (online) Vol. 3, Issue 2, pp: (256-263), Month: April - June 2015
15. **Md. Shariful Islam**, Md. Tariquzzaman, Md. Zahidul Islam "Integral Imaging three-dimensional (3D) display with wide viewing angle using multiple illuminations", *IJCI*, Vol.3, No.4, 2014. DOI: 10.5121/ijci.2014.3402
16. **Md. Shariful Islam**, Md. Tariquzzaman, A.O.M. Asaduzzaman, Md. Nazrul Islam, "Three-dimensional Integral Imaging system using Double Layer Microlens Array", (*International Journal of Computer Science and Engineering System*) *IJCSES*, Vol.6, No.3, July 2012, pp.113-116, *CSES International*, ISSN 0973-4406.
17. Md. Zahangir Alom, Mei-Lan Piao, **Md. Shariful Islam**, Nam Kim, Jae-Hyeung Park, "Optimized Facial Features-based Age Classification", *World Academy of Science, Engineering and Technology*, *International Journal of Computer and Information Engineering*, Vol.6; No.3, 2012.
18. Md. Sadek Ali, **Md. Shariful Islam**, Md. Alamgir Hossain, "GENDER RECOGNITION SYSTEM USING SPEECH SIGNAL", *IJCSEIT*, Vol.2, No.1, February 2012.
19. Md. Alamgir Hossain, **Md. Shariful Islam**, Md. Sadek Ali, "Performance Analysis of Barker Code Based on their Correlation Property in Multiuser Environment", *International Journal of Information Sciences and Techniques (IJIST)* Vol.2, No.1, January 2012.
20. **Md. Shariful Islam**¹, Pallab Kanti Podder^{*2} "Multi-Envelope Polarization Shift Keying Modulation for Digital Optical Communications", *Journal of the Bangladesh Electronics Society*, Volume 11, Number 1-2, June-December 2011.
21. Md. Sadek Ali, M.A. Masud, **Md. Shariful Islam**, Md. Alamgir Hossain, "Performance Enhancement of dynamic Channel allocation in Cellular Mobile Network based on Carrier to Interference Noise Ratio", *International Journal of Computer Science, Engineering and Information Technology (IJCSEIT)*, Vol.1. No.2, June-2011.
22. **Md. Shariful Islam**, Md. Asek Raihan Mahmud, Md. Sadek Ali, Md. Alamgir Hossain, "Performance Analysis of OFDM for Different Digital Modulation Schemes using Matlab Simulation", *J. Bangladesh Electron.* 10(7-2);7-11, 2010.
23. **Md. Shariful Islam**, Md. Khalilur Rahman, Md. Khairul Islam, "BER performance of Block CDMA transmission by using Frequency Domain Equalizer" *Journal of Bangladesh Electronics Society*, Volume-9, Number 1-2, June-December-2009. ISSN: 1816-1510.
24. T. K. Joadder, **Md. Shariful Islam** and Naznin Nahar "Develop an ethernet Local Area Network (LAN) based parallel computing to solve different problems", *Islamic University Studies, Journal of Applied Science & Technology*, vol 05, 2008.
25. A.O.M Asaduzzaman, Md. Nazrul Islam and **Md. Shariful Islam** "Off -Line Character Recognition System for Handwritten Bangla Numbers Using Superimposed Matrices" *Islamic University Studies, Journal of Applied Science & Technology*, Vol.04, No.02, October 2006.
26. **Md. Shariful Islam**, Md. Khalilur Rahman and K.M Abdus Sobahan "Implementation of data compression techniques for different data files" *Islamic University Studies, Journal of Applied Science & Technology*, Vol.04, No.01, December 2005.

Conference Proceedings

1. Abdullah-Al-Mashud M., Islam M. N., **Islam M. S.**, Tariquzzaman M.: *Study and Analysis Of Different Filters Using Different Segmentations For Biomedical Images*. 2nd International Conference on Medical Physics in Radiation Oncology and Imaging, Bangabandhu Sheikh Mujib Medical University (BSMMU), Dhaka, Bangladesh; 08/2014
2. A. **Md. Shariful Islam**, B.K.-C. Kwon, C.J.-H. Park, D.S.-K. Gil, E. Nam Kim: *Integral imaging with double layer microlens array*. Opto-Electronics and Communications Conference (OECC), 2012 17th; 07/2012
3. **Md Islam**, Md. Zahangir Alom: *Optimized Facial Features-based Age Classification*. World Academy of Science, Engineering and Technology; 01/2012
4. Md Sadek Ali, Md Mahbubur Rahman, Md Delowar Hossain, **Md Shariful Islam**, Md Moinul Islam: *Simulation and Bit Error Rate Performance Analysis of 4G OFDM Systems*. ICCIT, Khulna, Bangladesh; 01/2008
5. Mst. Suriya Akter, Md. Mahfuzur Rahman, Anjuman Ara Oishi, Romana Nourin Nipa, Md. Shariful Islam, Robust Mango Leaf Disease Classification Under Real-World Variability: Insights from MLD24, 2026 5th International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE), January, 2026.
6. Rakib Rayhan, Md. Mehedi Hassan, Abu Saleh Molla, Sabbir Hossain, Md Shariful Islam, Md. Shahjahan Ali, The Journey from 4G to 6G: A Systematic Investigation of Wireless Networks Focusing on 6G, 2025 IEEE 2nd International Conference on Computing, Applications and Systems (COMPAS), October, 2025