






Md Sipon Miah, Ph.D. (University of Galway, Ireland)

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 <https://scholar.google.com/citations?user=XhP8D5oAAAAJhl=en>

 <https://orcid.org/0000-0002-6986-1517>

 <https://www.researchgate.net/profile/Md-Sipon-Miah-2>

WOS ID: AAK-5397-2020

Born 04 January, 1982

SUMMARY

I have over fifteen years of tertiary teaching experience across Europe, and Asia, delivering undergraduate and postgraduate units in Information Technology, Computer Science, Cybersecurity, Artificial Intelligence, Quantum Computing, Internet of Things, Programming, Computer Networking, Signal and Systems, and Data Science. My teaching includes lectures, tutorials, labs, curriculum development, assessment design, and supervision of more than fifty M.Sc. theses and over sixty undergraduate projects. I specialize in simplifying complex technical concepts and supporting diverse learners through clear, student-centered instruction.

My research focuses on machine learning-enabled spectrum sensing, cooperative detection, and sum-rate optimization in cognitive radio-IoT networks. I have published 55 SCI/SCIE journal papers, 44 conference papers, and 4 book chapters, with over 2,200 citations (H-index 21, i10-index: 36). I serve on the Editorial Board of Scientific Reports and collaborate internationally with research groups in Australia, Spain, China, Ireland, and South Korea. My work spans CR-IoT, wireless communications, AI-driven signal processing, emerging 5G/6G technologies, and Quantum ML in Energy Management Systems.

EDUCATION

Doctor of Philosophy (Ph.D.)

Ph.D. in Computer Science

College of Science and Engineering, School of Computer Science, University of Galway (formally National University of Ireland Galway), Galway, Ireland.

Dissertation Title: "An Energy Efficient Spectrum Sensing Scheme for the Cognitive Radio Based Internet of Things"

Advisor: Prof. Dr. Michael Schukat

Co-Advisor: Prof. Dr. Enda Barrett

Examiners: Prof. Dr. Des Chambers & Prof. Dr. Ramona Trestian

ECTS: 360

Thesis-Defence: 24-09-2020

Awarded: Ph.D. Degree (09-12-2020)

Conferring: 15-06-2021

http://hdl.handle.net/10379/16347

Master of Science [M.Sc.(Thesis)]

M.Sc. in Information and Communication Engineering

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

Dissertation Title: "Performance Analysis of Fiber Optical Dispersion on OFDMA-QAM System"

Advisor: Prof. Dr. Md. Mahbubur Rahman

Result: A- (A minus) First position in order of merit (Class Size: 30)

Thesis Score: 3.65 out of 4.0

Awarded: M.Sc. Degree (08-11-2009)

Bachelor of Science [B.Sc.(Honours)] B.Sc. (Honours) in Information and Communication Engineering
Department of Information & Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
Project Title: "Simulation and Performance Analysis of WCDMA Systems"
Advisor: Prof. Dr. Md. Mahbubur Rahman
Result: First Class 2nd position in order of merit (Class Size: 40)
Project Score: 67 out of 100 (67%)
Awarded: B.Sc. Degree (13-11-2008)

Higher Secondary Certificate (HSC) Gaibandha Adarsha College, Gaibandha (Rajshahi Board, Rajshahi), 5700, Bangladesh, 2001.

Secondary School Certificate (SSC) Kuptala A. Q. High School, Gaibandha (Rajshahi Board, Rajshahi), 5700, Bangladesh, 1999.

RESEARCH INTEREST

Cognitive Radio Network, Wireless Communications, Wireless Sensor Networks, Internet of Things (IoT), Industrial Internet of Things (IIoT), Internet of Medical Things (IoMT), Cognitive Radio Network based IoT, Massive Antennas based CR-IoT Networks, Machine-to-Machine (M2M) Communications, Cloud Computing and Security, Vehicle to Vehicle Communications, Wireless Communications in 5G & 6G, THz Communications, Machine Learning or Artificial Intelligence based Wireless Communications, Cybersecurity, Biomedical Engineering and Deep Learning based Image Processing.

PROFESSIONAL EXPERIENCES

Research Fellow "Quantum machine learning in energy management systems," Department of Electrical and Electronics Engineering, Flinders University, Adelaide, South Australia, Australia.
10.03.2026 – present

Casual Lecturer Department of Information Technology, Victory Institute of Technology (VIT), Adelaide, South Australia, Australia.
23.02.2026 – 09.03.2026

Tutor Department of Computer Science and Information Technology, Adelaide University, Adelaide, South Australia, Australia.
23.02.2026 – 09.03.2026

Chairman/Head Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
29.10.2025 – 25.12.2025

Professor (Grade-III) Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
06.03.2022 – 25.12.2025

Postdoctoral Research Fellow Department of Signal Theory and Communications, University Carlos III of Madrid (UC3M), Leganes, 28911, Madrid, Spain.
01.11.2021 – 31.10.2024

Associate Professor Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
06.03.2017 – 05.03.2022

Head, Department of ICT Department of Information and Communication Technology, Rangpur Engineering College, Rangpur, Bangladesh.
18.04.2014 – 17.04.2015

Assistant Professor Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
18.04.2013 – 05.03.2017

Lecturer Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
18.04.2010 – 17.04.2013

Foreign Expert Lecturer Internet of Vehicle to Road (IVR) Research Laboratory, Department of Automation, School of Electronics and Control Engineering, Chang'an University, ShaanXi Province, 710064, China.
01.08.2023 – 31.08.2023

Foreign Expert Lecturer Internet of Vehicle to Road (IVR) Research Laboratory, Department of Automation, School of Electronics and Control Engineering, Chang'an University, ShaanXi Province, 710064, China.
01.09.2022 – 31.12.2022

Assistant Programmer
01.07.2009 – 17.04.2010

Bangladesh Computer Council (BCC), Agargaon, Dhaka, 1207, Bangladesh.

RESEARCH EXPERIENCES

Research Associate
01.04.2023 – Present

Professor Dr. Mingbo Niu, Internet of Vehicle to Road (IVR) Low-Carbon Research Institute, Chang'an University, ShaanXi Province, 710064, China (<http://en.chd.edu.cn/>).

Research Associate
01.01.2021 – Present

Professor Dr. Mingbo Niu, Internet of Vehicle to Road (IVR) Research Laboratory, Department of Automation, School of Electronics and Control Engineering, Chang'an University, ShaanXi Province, 710064, China (<http://https://en.chd.edu.cn/>).

Additional Director
25.08.2018 – Present

A/Professor Dr. Md Khairul Islam, Bio-Imaging Research Laboratory, Department of Biomedical Engineering, Islamic University, Kushtia, 7003, Bangladesh (<http://www.iu.ac.bd>).

Research Associate
01.11.2021 – 31.10.2024

Professor Dr. Ana Garcia Armada, Communications Research Group (GCOM), Department of Signal Theory and Communications, University Carlos III of Madrid (UC3M), Leganes, Madrid, Spain (<http://gcom.tsc.uc3m.es/en/home/>).

Research Assistant
01.09.2016 – 31.09.2024

Professor Dr. Michael Schukat, Open Sensor Network Authentication (OSNA), University of Galway (UG), Galway, Ireland (<http://www.it.nuigalway.ie/mschukat/>).

Research Assistant
01.09.2019 – 08.09.2023

Professor Dr. Heejung Yu, Wireless Information Processing Laboratory (WIPL), Korea University, Sejon Campus, South Korea (<https://sites.google.com/site/heejung6149/>).

Research Assistant
01.01.2013 – 30.12.2019

Professor Dr. Heejung Yu, Wireless Communications and Networks (WCN), Yeungnam University, South Korea (<https://sites.google.com/site/heejung6149/>).

Research Assistant
01.03.2012 – 30.05.2013

Professor Dr. Insoo Koo, Multimedia Communication Systems Lab. (MCSL), Ulsan University, South Korea (<https://www.mcsul.ulsan.ac.kr/>).

Research Associate
01.03.2003 – 25.12.2025

Professor Dr. Md. Mahbubur Rahman, Wireless Communication Lab.(WCL), Dept. of Information and Communication Technology (ICT), Islamic University, Kushtia-7003, Bangladesh (<https://www.iu.ac.bd/>).

TEACHING EXPERIENCES

Lecturer in M.Sc., Dept. of Automation, Chang'an University, ShaanXi, China

Summer Lecturer:- Probability Theory and Stochastic Process for Engineering I²⁰²², Probability theory and stochastic process for engineering II²⁰²², Optimization techniques in wireless communications research²⁰²², Technologies and Architectures for new terrestrial communication system²⁰²²

Lecturer in M.Sc., Dept. of TSC, University Carlos III of Madrid (UC3M), Leganes, Spain

18229:- Simulation and Optimization of Communication Systems^{21/22,22/23,23/24}, 18227:- Technologies and Architectures for the New Terrestrial and Space Communications^{22/23,23/24}.

Lecturer in B.Sc., Dept. of TSC, University Carlos III of Madrid (UC3M), Leganes, Spain

13497:- Communication Theory Laboratory^{2021/22,22/23,23/24}, 13842:- Digital Communications Laboratory^{22/23,23/24}, 15369:- Systems and Circuits^{23/24}.

Tutor in B.Sc. (Engg.), Dept. of Computer Science, University of Galway, Ireland

CT255:- Next Generation Technologies I, II & III²⁰¹⁶, CT331:- Programming Paradigm²⁰¹⁶, CT331:- Programming Paradigm²⁰¹⁶, CT248-345:- Introduction to Modelling²⁰¹⁷, CT209:- OOP-Data Structure & Algorithms²⁰¹⁷, CT807:- Internet Programming²⁰¹⁷, CT3535:- Object Oriented Programming III²⁰¹⁷, CT248:- Introduction to Modelling²⁰¹⁸, CT216:- Software Engineering²⁰¹⁸.

Lecturer in M.Sc., Dept. of ICT, Islamic University, Bangladesh

ICT-5101: Wireless Sensor Networks^{2022/23}, ICT-5103: Advanced Digital Communications²⁰²¹, ICT-5221: Convex Optimization^{2024/25}, ICT-5104: Artificial Neural Networks and Deep Learning Laboratory^{2024/25}, ICT-5107: Cybersecurity^{2024/25}, and ICT-5203: Stochastic Process^{2023/24}.

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Lecturer in M.Sc. (Evening), Dept. of ICT, Islamic University, Bangladesh ICT-5103: Internet Application & Security²⁰²³, ICT-5203: Database Management²⁰²², ICT-5205: Cellular Mobile Communications²⁰²³, ICT-5301: Data Communications²⁰²⁰, ICT-5105: Computer Networking^{2024/25}.

Lecturer in B.Sc. (Engg.), Dept. of ICT, Islamic University, Bangladesh Digital Electronics^{2011,12}, Discrete Mathematics²⁰¹⁶, ICT-2203:- Numerical Method Analysis²⁰²⁴, ICT-2107:- Signal and Systems^{2020,24}, Data Communications and Networking, Computer Networking, Optical Communications²⁰¹⁶, ICT-3103:- Electronic Communications and Microwave Engineering²⁰²⁴, ICT-3103:- Electronic Communications and Microwave Engineering Laboratory²⁰²⁴, Statistics for Communication Engineering²⁰¹⁵, AI and Interfacing and Telecommunication System Engineering, Programming Languages C²⁰¹⁹, Digital Signal Processing^{2018,19,20,24}, & Operating Systems²⁰¹⁹.

LICENSES & CERTIFICATIONS

Cybersecurity

Cybersecurity Foundations; The Cybersecurity Threat Landscape; & Ethical Hacking: Introduction to Ethical Hacking.

Network Security

IT Security Foundations: Network Security; & Windows Server 2025: Installation and Configuration.

AI/ML/DL

Introduction to Artificial Intelligence; Customer Journey Mapping with Generative AI; Generative AI for Sales and Services Professionals; & Using AI for Customer Service Managers.

IT & Desktop

Learning Power BI Desktop; Putting ITIL Into Practice: Applying ITIL 4 Foundation Concepts; IT Service Desk Careers and Certifications; What Is Microsoft Copilot? An Overview of Microsoft's AI Tools; Learning Microsoft 365 Copilot for Work (2024); .

ADMINISTRATIVE AND OTHER EXPERIENCES

Provost
20.04.2024 – 25.08.2024

Bangamata Sheikh Fazilatunnesa Mujib Hall (BSFMH), Islamic University, Kushtia, 7003, Bangladesh.

Member
2023 – 2024

Technical Sub-Committee, GST Combined Admission Examination, Islamic University, Kushtia, 7003, Bangladesh.

SCHOLARSHIP AND AWARDS

Visiting Professor
21.12.2023 – 03.01.2024

Visiting Professor (Short-Term), Department of Energy and Electrical Engineering (EEE), Changan University, Xian, China (<https://enndxyc.chd.edu.cn/>).

30 Postdoctoral Fellowship
01.11.2021 – 31.10.2024

Postdoctoral Research Fellow, Department of Signal Theory and Communications (TSC), University Carlos III of Madrid (UC3M), Leganes, Madrid, Spain (<https://www.uc3m.es/empleo/en/estancias-postdoctorales>).

Teaching Excellent Acknowledgment
2021 – 2022

Certificate for the course of Simulation and Optimization Techniques from the Vice-Rector of studies of University Carlos III of Madrid (UC3M), Leganes, Madrid, Spain.

Hardiman Scholarship
01.09.2016 – 30-08-2020

For Structured Ph.D. Degree, Department of Information Technology (IT), University of Galway, Galway, Ireland (<https://www.universityofgalway.ie/hardiman-scholarships/>).

ICT Scholarship
01.01.2013 – 30-07-2016

For Ph.D. Degree, the Ministry of Information and Communication Technology Division (ICTD), Dhaka, Bangladesh (<http://www.ictd.gov.bd/>).

Talent Pool Scholarship
01-03-2006 – 30-02-2007

For obtaining M.Sc. Degree with Grade: A- (1st Position in order of merit), Islamic University, Kushtia, 7003, Bangladesh (<https://www.iu.ac.bd>).

Talent Pool Scholarship
01-03-2002 – 30-02-2006

For obtaining B.Sc. Degree with First Class (2nd Position in order of merit), Islamic University, Kushtia, 7003, Bangladesh (<https://www.iu.ac.bd>).

**EDITOR/EDITORIAL BOARD
MEMBER/REVIEWER/TPC**

Guest Editor Special Issue on the "Leveraging Image Processing for Automated Quality Control in Manufacturing-A Deep Learning Approach" in .
Special Issue on the "Machine Learning Models for Real-time Analysis in High-density IoT Networks." in *Communications in Statistics—Case Studies and Data Analysis [IF: 1.6, Q3, Taylor & Francis]*.
Special Issue on the "Signal Processing Innovations for Enhancing Sustainable Energy Solutions in Marine Hydrological Systems" in *Ocean Systems Engineering*.
International Conference on Artificial Intelligence and Manufacturing (AIAM2020), October, 15-17, Manchester, United Kingdom.

Associate Editor Physical and Engineering Sciences in Medicine, Springer Nature.

Invited Speaker Talk title "Machine Learning Aided Cognitive Radio based Internet of Things," - International Conference on Mechanical Electronics and Engineering, (ICMEE), 17-19, 2023, Xian, China.

Editorial Board Member Scientific Reports (Springer Nature) [SCIE, Q1, IF:4.3] "10-06-2024 – Present"
AEU-International Journal of Electronics and Communications [SCIE, Q1, IF:2.6] "25-12-2025 – Present"
Future Generation Computer Systems [SCI, Q1, IF:5.9] "20-01-2025 – Present"

Reviewer Journals

IEEE Transactions on Cognitive Communications and Networking
IEEE Transactions on Green Communications and Networking
IEEE Sensors Journal
ACM Transactions on Multimedia Computing, Communications, and Applications
IEEE Networking Letters
IEEE Access
Human-centric Computing and Information Systems (HCIS)[Elsevier]
EURASIP Journal on Wireless Communications and Networking (JWCN)
Computer Systems (CS) [Elsevier]
China Communications [Elsevier]
KSII Transactions on Internet and Information Systems [SCIE]
Sensors, Electronics, Symmetry, Remote Sensing, Big Data and Cognitive Computing, Internet of Things (IoT), Applied Sciences, Network, Biology [MDPI, SCIE]
Journal of Automatika [Johan Wiley & Sons]
International Journal of Imaging Systems and Technology [Johan Wiley & Sons, SCIE]
International Journal of Communication Systems [Johan Wiley & Sons, SCIE]
Wireless Communications and Mobile Computing [SCIE]
International Journal Engineering Review [SCOPUS]
Wireless Personal Communications [SCIE]

Conferences

25th International Conference on Digital Image Computing: Techniques and Applications (DICTA 2024), Nov 27-29, 2024, Perth, Australia
26th International Conference on Computer and Information Technology (ICCIT), December 13-15, 2023, Long Beach Hotel, Cox's Bazar, Chittagong, Bangladesh
IEEE International Conference on Informatics, Electronics & Vision (ICIEV)
IEEE International Conference on Communications (ICC)

Publication Chair The 6th International Conference on Electronic Communication and Artificial Intelligence (ICECAI 2025), Hefei, China, 23-25 May, 2025.

Session Chair The 2nd International Conference on Networks, Computers and Communications (MIET'24), November 08-09, 2024, Noakhali Science and Technology University (NSTU), Noakhali, Bangladesh.
 The 11th 11th International Symposium on Networks, Computers and Communications (ISNCC'24), October 22-25, 2024, University of the District of Columbia (UDC), Washington DC, USA.
 The 26th International Conference on Computer and Information Technology (ICCIT), December 13-15, 2023, Long Beach Hotel, Cox's Bazar, Chittagong, Bangladesh.
 The 11th International Conference on Informatics, Electronics & Vision (ICIEV), October 26-29, 2023, University of East London, London, UK.
 IEEE Computer Society Bangladesh Chapter Summer Symposium, June 9-10, 2023, Islamic University, Kushtia, Bangladesh.
 The 1st International Conference on Next-generation Computing, IoT and Machine Learning (NCIM), June 16-17, 2023, DUET, Gazipur, Bangladesh.

National Advisory Committee 2025 IEEE International Conference on Quantum Photonics, Artificial Intelligence, and Networking, Rangpur, Bangladesh, 01-02 August, 2025.

TPC Members International Conference on Informatics, Electronics & Vision (ICIEV), 2012,13,14,15,16,17,18,19,20,21,22,23
 International Conference on Sustainable Technologies for Industry 4.0 (STI), 2020,21,22,23,24
 European Symposium on Software Engineering (ESSE), 2021
 IEEE Symposium on Computers and Communications (ISCC), 2022
 Symposium on Pattern Recognition and Applications (SPRA), 2021
 International Conference on Machine Intelligence and Emerging Technologies (MIET), 2022, 2024
 3rd International Conference on Intelligent Traffic Systems and Smart City (ITSSC), 2023
 International Conference on Internet of Things and Intelligent Information Processing (IoTIIIP), 2024
 The 9th International Conference on Computer and Communication Systems (ICCCS), 2024
 2025 International Conference on Image, Signal Processing and Machine Learning (ISPML 2025)

Volunteers IEEE Global Communications (GLOBECOM) Conference, 7–11, December, Madrid, Spain, 2021
 IEEE International Mediterranean Conference on Communications and Networking (MediCom), 8-11, July, Madrid, Spain, 2024.

COMPUTER SKILLS

Programming Languages C, C++, Java, Python

Simulation Tools MATLAB, OPNET, NS2, TensorFlow

Web Applications HTML, ASP.NET, ASP

Database Software Oracle, SQL Server, Petri Nets, LaTeX

ACADEMIC ACTIVITIES

Academic Committee Member Department of Signal Theory and Communications, University Carlos III of Madrid (UC3M), Leganes, Madrid, 28911, Spain.
 01-11-2021 – 31-10-2024

Academic Council Member Islamic University, Kushtia, 7003, Bangladesh.
 06-03-2022 – 25-12-2025

Board of Advanced Studies Member Islamic University, Kushtia, 7003, Bangladesh.
 06-03-2022 – 25-12-2025

- Course Coordinator in B.Sc. & M.Sc.** Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
01-07-2021 – 25-12-2025
- Course Coordinator in MICT (Professional)** Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
01-07-2024 – 25-12-2025
- Faculty Member** Faculty of Engineering and Technology, Islamic University, Kushtia, 7003, Bangladesh.
06-03-2022 – 25-12-2025
- Faculty Member** Faculty of Engineering and Technology, Islamic University, Kushtia, 7003, Bangladesh.
18-04-2010 – 17-04-2012
- Planning Member** Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
18-04-2010 – 17-04-2012
- Academic Committee Member** Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
18-04-2010 – 25-12-2025
- Assistant Director** ICT CELL (formerly Computer Centre), Islamic University, Kushtia, 7003, Bangladesh.
02-03-2014 – 06-04-2015

M.Sc. THESIS DEFENSE COMMITTEE

Member, Dept. of TSC, UC3M, Leganes, Spain

06. Mahbloos Khan, M.Sc. (Thesis)

Title: Analysis of PAPR Reduction by Implementing Precoding Techniques in OFDM^{2023/24}.

05. Oscar Becerril Roman, M.Sc. (Thesis)

Title: Software-Defined Radio Experiments with USRP B210 Applied to Communication Subjects^{2022/23}.

04. Steven Jesús Paz Barrera, M.Sc. (Thesis)

Title: Visible Light Backscatter communication system for very-low power and tiny IoT devices^{2022/23}.

03. Shaya Ganji, M.Sc. (Thesis)

Title: Identification of Digital Modulation Using Discrete Wavelet Transform^{2022/23}.

02. Salhim Bohali Ali Mohamed, M.Sc. (Thesis)

Title: Performance Evaluation for PAPR Reduction Techniques in OFDM Systems: A Comparative Study of SLM and PTS^{2022/23}.

01. Ezeddine Amar, M.Sc. (Thesis)

Title: LTE Network for SCADA with the Polling Algorithm^{2022/23}.

WORKSHOP

Resource Person
08-11-2023

Title: Practicing Integrity to Improve the Quality of Education, Room No: 203, ICT Cell, Faculty of Applied Science and Technology (1st Science Building), Islamic University, Kushtia, 7003, Bangladesh.

PROJECT EVALUATION COMMITTEE

Member
Fiscal Year: 2024 – 2025

The project evaluation committee for research grants funded by the University Grant Commission (UGC) of Bangladesh, Islamic University, Kushtia, 7003, Bangladesh.

Examiner
Fiscal Year: 2021 – 2022

The project evaluation committee for research grants funded by the University Grant Commission (UGC) of Bangladesh, Islamic University, Kushtia, 7003, Bangladesh.

SUPERVISION

Doctor of Philosophy (Ph.D.)

01. Md. Kazi Mowdud Ahmed, Assistant Professor, Dept. of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.

Title: A Novel Approach for Detection and Classification of Cancer using Graph Neural Networks (Ongoing).

02. Md. Khairul Islam, Assistant Professor, Dept. of Biomedical Engineering, Islamic University, Kushtia, 7003, Bangladesh.

Title: Improvement of Detection and Classification Abnormalities in Medical Images using Deep Convolutional Neural Network (Awarded).

Master of Science (M.Sc.) More than fifty graduate research students completed their thesis for their partial fulfillment of the M.Sc. Degree in Information and Communication Technology under my supervision as
01. Md. Shamim Hossain, Lecturer, Dept. of Electrical and Electronics Engineering, Sonargaon University (SU), Dhaka, 1215, Bangladesh.
Title: *Machine Learning-Based Malicious User Detection for Reliable Cooperative Radio Spectrum Sensing in Cognitive Radio-Internet of Things.*
02. Md. Ruhul Amin, Lecturer, Dept. of Information and Communication Technology, Rabindra Maitree University, Kushtia, 7000, Bangladesh.
Title: *Analysis of Energy-Efficient Resource Allocation Architecture in Heterogeneity Mobile Ad-hoc Cloud Computing.*

Bachelor of Science (B.Sc.) More than sixty undergraduate students completed their project for their partial fulfillment of the B.Sc. Degree in Information and Communication Technology under my supervision.

OTHER ACTIVITIES

IEEE Senior Member (SMIEEE) IEEE Professional Communication Society (PCS) (Member Number - 97540811).
25-02-2023 – Present

IEEE Member IEEE Professional Communication Society (PCS) (Member Number - 97540811).
09-08-2012 – 24-02-2023

BCS Member Bangladesh Computer Society (BCS) (Member Number - AM05540).
31-12-2009 – Present

Advisor Student Association of ICT, Islamic University, 7003, Bangladesh.
18-04-2010 – Present

Advisor Gaibandha District Student Associations Islamic University, Kushtia, 7003, Bangladesh.
18-04-2010 – Present

Member Gaibandha District Student Associations Islamic University, Kushtia, 7003, Bangladesh.
21-03-2003 – 12-09-2009

Published Edited Books

[1] R. V. Suganya, A. V. Senthil Kumar, **Md Sipon Miah** and Fahima Hajje, "AI-Driven Medical Imaging and Diagnosis," published by **CRC Press**, 2025 (ISBN: 9781779645975).

Published Book Chapters

[3] Md Rakibul Islam, Md Khairul Islam, Md Mahbubur Rahman, **Md Sipon Miah**, "A Novel Approach for Detection and Classification of Breast Cancer using Graph Neural Network," **CRC Press**, 2024 (Under review).
[2] Md Shamim Hossain, Kazi Mowdud Ahmed, Md Khairul Islam, Md Mahbubur Rahman, **Md Sipon Miah**, Mingbo Niu, "Machine Learning and Blockchain-based Privacy-aware: Cognitive Radio Internet of Things," **Applied Intelligence for Industry 4.0 (Taylor & Francis Group)**, 2023, <https://doi.org/10.1201/9781003256083>.
[1] **Md. Sipon Miah**, Md. Mahbubur Rahman and Heejung Yu, "Towards 5G Wireless Networks - A Physical Layer Perspective," **InTech Publisher**, 2016, 10.5772/66047

Published Journal Papers

[55] Md Emamul Hossen, S M Mahim, Md Khairul Islam1, **Md Sipon Miah**, and Syed Mohammed Shamsul Islam, "Fusion of Vision Transformers and Fourier Transform Networks to Capture Spatial-Frequency Patterns in Chest Computed Tomography Scans for Lung Disease Diagnosis." **Scientific Reports [WoS, Q1, IF:4.3]**, 2025 (Accepted).

[54] Musa N.Hamza, Mohammad Tariqul Islam, Mohammad Alibakhshikenari, Sunil Lavadiya, Iftikhar ud Din, Bruno Cavalcante de Souza Sanches, Slawomir Koziel, Syeda Iffat Naqvi, Abinash Panda, Bal S. Virdee, Ali Farmani, Peiman Parand, **Md. Sipon Miah**, and Md. Shabiul Islam, "High-Performance THz Nanometamaterial Absorber With Negative Permittivity (0.1–10THz) for Early Cancer Detection via Circulating Exosomes." **IEEE Sensors Journal [WoS, SCIE, Q1, IF:4.7]**, 2025.

- [53] Shakib Al Hasan, S M Mahim, Md Emamul Hossen, Md Olid Hasan, Md Khairul Islam¹, Patrizia Livreri, Salahuddin Khan, Mohammad Alibakhshikenari, and **Md Sipon Miah**, "DSIT UNet A Dual Stream Iterative Transformer Based UNet Architecture for Segmenting Brain Tumors from FLAIR MRI Images." **Scientific Reports [WoS, Q1, IF:4.3]**, 2025.
- [52] Md Maruf Hossain, Md Mahfuz Ahmed, Abdullah Al Nomaan Nafi, Md Rakibul Islam, Md Shahin Ali, Jahurul Haque, **Md Sipon Miah**, Md Mahbubur Rahman, Md Khairul Islam, "A novel hybrid ViT-LSTM model with explainable AI for brain stroke detection and classification in CT images: A case study of Rajshahi region." **Computers in Biology and Medicine [WOS, SCI, Q1, IF:7.1]**, 2025.
- [52] **Md. Sipon Miah** Michael Schukat, Enda Barrett, Maximo Morales Cespedes and Ana Garcia Armada, "Enhanced Spectrum Sensing for AI-Enabled Cognitive Radio IoT with Noise Uncertainty." **ITU Journal on Future and Evolving Technologies [WOS, ESCI]**, 2025.
- [51] Md. Maruf Hossain, Md. Mahfuz Ahmed, Abdullah Al Nomaan Nafi, Md. Rakibul Islam, Md. Shahin Ali, Jahurul Haque, **Md. Sipon Miah**, Md Mahbubur Rahman and Md Khairul Islam, "A Novel Hybrid ViT-LSTM Model with Explainable AI for Brain Stroke Detection and Classification in CT Images: A Case Study of Rajshahi Region." **Computers in Biology and Medicine [WOS, SCIE, Q1, IF:6.7]**, 2025.
- [50] Md. Emamul Hossen, S M Mahim, Shakib Al Hasan, Md Khirul Islam, Md Shohidul Islam, Salahuddin Khan, Mohammad Alibakhshikenari, Peiman Parand, and **Md. Sipon Miah**, "Boosting Cervical Cancer Prediction Leveraging a Hybrid FT-Transformer Model." **IEEE Access [WOS, SCIE, Q1, IF:3.7]**, 2024.
- [49] Qian Xu, Jia Yi, Xianyu Wang, Ming-bo Niu, **Md. Sipon Miah**, and Ling Wang, "Secure UAV Communication in Dual-Function Radar-Communication System by Exploiting Constructive Interference." **Drones [WOS, SCIE, Q1, IF:4.8]**, 2024.
- [48] Mohammad Amzad Hossain, **Md. Sipon Miah** and Ana Garcia Armada, "Digital Signature-based Authentication Framework in Cognitive Radio-Internet of Vehicles." **ITU Journal on Future and Evolving Technologies [WOS, ESCI]**, 2024.
- [47] Mohammad Amzad Hossain, **Md. Sipon Miah** and Ana Garcia Armada, "TransMixer-AF: Advanced Real-Time Detection of Atrial Fibrillation Utilizing Single-Lead Electrocardiogram Signals." **IEEE Access [WOS, SCIE, Q1, IF: 3.7]**, 2024.
- [46] Md. Mahfuz Ahmed, Md. Maruf Hossain, Md. Rakibul Islam, Md Shahin Ali, Abdullah Al Noman Nafi, Md Faisal Ahmed, Kazi Mowdud Ahmed, **Md. Sipon Miah**, Md Mahbubur Rahman, Mingbo Niu, and Md. Khairul Islam, "Brain Tumor Detection and Classification in MRI Using Hybrid ViT and GRU Model with Explainable AI in Southern Bangladesh." **Scientific Reports [WoS, Q1, IF:4.3]** 2024.
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[8] Md. Tahidul Islam, **Md. Sipon Miah**, Jia Uddin and Adil Mahmud, "Multi antenna based cooperative coarse fine sensing for wideband cognitive radio system," **International Conference on Electrical, Computer and Communication Engineering (ECCE)**, Cox's Bazar, Bangladesh, 2017.

[7] **Md. Sipon Miah**, Dilruba Sharmin and Md Mahbubur Rahman, "Lifetime Enhancement in Wireless Sensor Networks Using Modified Improved LEACH Protocol," **International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2)**, University of Rajshahi, Bangladesh, 2016.

[6] Repon Hossen, Md Mahbubur Rahman and **Md. Sipon Miah**, "Enhancing Spectrum Sensing Lifetime in Cognitive Femto-cell Networks," **International Conference on Computer, Communication, Chemical, Materials and Electronic Engineering (IC4ME2)**, University of Rajshahi (RU), Bangladesh, 2016.

[5] **Md. Sipon Miah**, Md. Mahbubur Rahman and Heejung Yu, "MISO Based Cooperative Cognitive Radio Vehicular Networks: Sensing and Sum Rate Analysis," **The 3rd International Conference Applications and Innovations in Mobile Computing (AIMoC)**, Kolkata, India, 2016.

[4] Md. Khairul Islam, Md. Mahbubur Rahman, Tapan Kumar Godder and **Md. Sipon Miah**, "Investigation and Performance Analysis of Call Admission Control in WCDMA system to find optimum Parameters," **International Conference on Materials, Electronics & Information Engineering (ICMEIE-2015)**, University of Rajshahi, Rajshahi, Bangladesh, June 05-06, 2015.

[3] Md. Amzad Hossain, Md. Mahbubur Rahman, Tapan Kumar Godder and **Md. Sipon Miah**, "Performance Analysis of Cognitive Radio Based Channel Allocation Scheme in WiMAX," **The 2nd International Conference on Electrical Engineering and Information and Communication Technology (iCEEICT-2015)**, Jahangirnagar University, Dhaka, Bangladesh, May 21-23, 2015.

[2] **Md. Sipon Miah** and Md. Mahbubur Rahman, "An Eigenvalue and Superposition-Based Cooperative Spectrum Sensing for Cognitive Radio Networks," **1st International Conference on Electrical Engineering and Information and Communication Technology (iCEEICT-2014)**, Military Institute of Science and Technology, Dhaka, Bangladesh, Vol. 01, No. 01, 2014.

[1] **Md. Sipon Miah**, and Insoo Koo, "A Cluster-based Spectrum Sensing using Double Threshold Energy Detection and Kullback-Leibler Information (KLI)," **The FTRA International Conference on Advanced IT, Engineering and Management (FTRA AIM-2013)**, Kyung Hee University, Seoul, Korea, 2013.

Published Posters

[2] **Md. Sipon Miah**, Michael Schukat and Enda Barrett, "D-S Theory Based Cooperative Spectrum Sensing in Cognitive Radio Networks with Energy Harvesting," **The 7th Annual Research Day, National University of Ireland Galway (NUIG)**, Ireland, 19 April, 2017.

[1] Lutfar Rahman, Md. Shafiul Alam Khan, Ahmedul Kabir and **Md. Sipon Miah**, "A Model of Algorithm with Asymptotic Perspectives", **The 2nd International Conference on Informatics, Electronics and Vision, Dhaka, Bangladesh**, 17-18 May, 2013.

Presented Seminars

[16] **Md. Sipon Miah**, "Convex Optimization Techniques in Wireless Transmission Systems," **Room 612, IVR Low-Carbon Research Institute, Chang'an University**, Xian, China, 23rd April, 2024.

[15] **Md. Sipon Miah**, "Comparative Performance Analysis of Peak to Average Power Ratio in OFDM, SLM and PTS Systems," **Room 612, IVR Low-Carbon Research Institute, Chang'an University**, Xian, China, 18th April, 2024.

[14] **Md. Sipon Miah**, "MU-MIMO-based Spectrum Sensing and Sum Rate in Cognitive Radio for Internet of Vehicular Things (IoVT)," **Room 612, IVR Low-Carbon Research Institute, Chang'an University**, Xian, China, 29th December, 2023.

[13] **Md. Sipon Miah**, "Energy Harvesting-enabled Cognitive Radio-Internet of Things Using Machine Learning," **Room 612, IVR Low-Carbon Research Institute, Chang'an University**, Xian, China, 27th December, 2023.

[12] **Md. Sipon Miah**, "Sensing and Throughput Analysis of a MU-MIMO based Cognitive Radio-based Internet of Things (CR-IoT)," **Room 612, IVR Low-Carbon Research Institute, Chang'an University**, Xian, China, 25th December, 2023.

[11] **Md. Sipon Miah**, "Cluster-based Cooperative Spectrum Sensing in Cognitive Radio Networks (CRNs)," **Room 612, IVR Low-Carbon Research Institute, Chang'an University**, Xian, China, 22nd December, 2023.

[10] **Md. Sipon Miah**, "Technologies and Architectures for New Terrestrial Communication System," **Internet of Vehicle to Road Research (IVR) Laboratory, Chang'an University**, China, 31st August, 2022.

[9] **Md. Sipon Miah**, "Machine Learning based Cognitive Radio-Internet of Things (CR-IoT)," **Internet of Vehicle to Road Research (IVR) Laboratory, Chang'an University**, China, 17th August, 2022.

[8] **Md. Sipon Miah**, "Spectrum Sensing based Cognitive Radio-Internet of Things (CR-IoT)," **Internet of Vehicle to Road Research (IVR) Laboratory, Chang'an University**, China, 6th August, 2022.

[7] **Md. Sipon Miah**, "Analysis of Sensing and Network Lifetime in Full-Duplex Relay Based Energy Harvesting Cognitive Radio-Internet of Things (CR-IoT) with Security Framework for 5G," **Room 3.S1.08, Leganes Library, University Carlos III of Madrid (UC3M)**, Leganes, Madrid, Spain, 26th January, 2022.

[6] **Md. Sipon Miah**, "Sensing and Throughput Analysis of a MU-MIMO based Cognitive Radio Scheme for the Internet of Things," **Room No-125G, Department of Information Technology (IT), School of Engineering, National University of Ireland Galway (NUIG)**, Galway, Ireland, 7th May, 2020.

[5] **Md. Sipon Miah**, "Maximization of Sum Rate in AF-Cognitive Radio Networks Using Superposition Approach and n-out-of-k Rule," **Room No-125G, Department of Information Technology (IT), School of Engineering, National University of Ireland Galway (NUIG)**, Galway, Ireland, 22 May, 2018.

[4] **Md. Sipon Miah**, "Analysis of Sensing and Throughput for MU-MIMO Based Energy Harvesting Cognitive Radio Networks," **Room No-125G, Department of Information Technology (IT), School of Engineering, National University of Ireland Galway (NUIG)**, Galway, Ireland, 12 May, 2017.

[3] **Md. Sipon Miah**, "A Cluster Based Cooperative Spectrum Sensing for Cognitive Radio Network using Eigenvalue Detection Technique," **Department of Information and Communication Technology, Islamic University, Kushtia-7003**, Bangladesh, 2016.

[2] **Md. Sipon Miah**, "A Cluster-Based Cooperative Spectrum Sensing in Cognitive Radio Network Using Eigenvalue Detection Technique with Superposition Approach," **Department of Information and Communication Technology (ICT), Islamic University (IU), Kushtia-7003**, Bangladesh, 2015.

[1] **Md. Sipon Miah**, "Super-allocation and Cluster-based Cooperative Spectrum Sensing in Cognitive Radio Network," **Department of Information and Communication Technology (ICT), Islamic University (IU), Kushtia-7003**, Bangladesh, 2015.

Projects (On-going and Completed)

[18] **Project Director (PD)**, Title: ESSFSC-5GBN: Energy-efficient Spectrum Sensing for FD-based Secure CR-IoT in 5G-and-Beyond Networks, Grants: NA, Grant No: NA, Period: NA, Status: Submitted, Output: NA, Funding: The Ministry of Science and Technology (MoST), Bangladesh.

[17] **Project Director (PD)**, Title: 6G Spectrum Management, Localization, Sensing, and Security: Integrating Terrestrial and Non-Terrestrial Networks (6G-SLSS), Grants: NA, Grant No: NA, Period: NA, Status: Submitted, Output: NA, Funding: HEAT, Ministry of Education, Bangladesh and World Bank.

- [16] **Project Director (PD)**, *Title*: Deep Learning based Security Analysis in Hybrid VLC/RF Aided Cognitive Radio-Internet of Things, *Grants*: NA, *Grant No*: NA, *Period*: NA, *Status*: Submitted, *Output*: NA, *Funding*: Ministry of Education (BANBEIS), Palashi-Nilkhet, Dhaka, 1205, Bangladesh.
- [15] **Project Director (PD)**, *Title*: A Novel Security Technique in Hybrid VLC/RF Aided Cognitive Radio-based Internet of Things in 6G, *Grants*: 3,50,000.00, *Grant No*: SRG-242277, *Period*: 2024-2025, *Status*: Completed, *Output*: NA, *Funding*: Ministry of Science and Technology (MOST), Bangladesh.
- [14] **Project Director (PD)**, *Title*: Sensing and Security Analysis in Hybrid VLC/RF Aided Cognitive Radio-based Internet of Things (CR-IoT) Network, *Grants*: Two Lac and Ten Thousand (2,10,000.00) Taka, *Grant No*: Ref-no-141-EDU-IU-2014-31, *Period*: 01/07/2024-30/06/2025, *Status*: Completed, *Output*: NA, *Funding*: Islamic University, Kushtia, 7003, Bangladesh.
- [13] **Project Director (PD)**, *Title*: Secure Spectrum Sensing in Cognitive Radio-Industrial Internet of Things (CR-IIoT) Networks for 6G, *Grants*: One Lac and Seventy Five Thousand (1,75,000.00) Taka, *Grant No*: Ref-no-141-EDU-IU-27, *Period*: 01/07/2023-30/06/2025, *Status*: Completed, *Output*: NA, *Funding*: Islamic University, Kushtia, 7003, Bangladesh.
- [12] **Member**, *Title*: Energy and Cost Efficient Communications with Universal Coverage, *Grants*: 193,479.00 Euros, *Grant No*: PID2020-115323RB-C33, *Period*: 01/09/2021-31/08/2024, *Status*: Completed, *Output*: NA, *Funding*: Agencia Estatal De Investigacion (AEI), Madrid, Spain (UC3M).
- [11] **Member**, *Title*: Visible light communications for an efficient digital transition, *Grants*: 143,980.00 Euros, *Grant No*: TED2021-129869B-I00, *Period*: 01/12/2021-30/11/2024, *Status*: Completed, *Output*: Papers published, *Funding*: Agencia Estatal De Investigacion (AEI), Madrid, Spain (UC3M).
- [10] **Consulting Expert**, *Title*: Hybrid Optics Technologies in Intelligent Transportation Systems, *Grants*: 600000.00 CNY, *Grant No*: 300203110029, *Period*: 2020-2024, *Status*: Completed, *Output*: Papers published, *Funding*: High-level expert funding project of Chang'an University, Xian, China.
- [9] **Member**, *Title*: "Transportation-Energy-Information" Multigrid Fusion and Self-consistent, *Grants*: 400000.00 CNY, *Grant No*: 300201000173, *Period*: 2023-2025, *Status*: Completed, *Output*: Papers published, *Funding*: The innovation creative base project of Shaanxi Province, China (Changan University).
- [8] **Consulting Expert**, *Title*: Infrastructure Planning and Design Technology for Transportation Self-consistent Energy System, *Grant No*: 2021YFB1600200, *Grants*: 510000.00 CNY, *Period*: 2021-2024, *Status*: Completed, *Output*: papers published, *Funding*: National Key Research and Development Project, Xian, China (Changan University).
- [7] **Member**, *Title*: Human-Vehicle-Road-Light Smart Communication Fusion and Low-Carbon Based Intelligent V2R Informatics Research, *Grant No*: G2021171024L, *Grants*: 107000.00 CNY, *Period*: 2021-2022, *Status*: Completed, *Output*: Two journal papers, *Funding*: Ministry of Science and Technology, Xian, China (Changan University).
- [6] **Member**, *Title*: Human-Vehicle-Road-Light Fusion in Low Carbon Intelligent Transportation Systems, *Grants*: Fifty Six Lac and Thirty Thousand (56,30,000.00) Taka, *Period*: January, 2021- December, 2022, *Status*: Completed, *Output*: More than two papers published, *Funding*: Ministry of Science and Technology, China (Changan University).
- [5] **Project Director**, *Title*: Machine Learning Based Security Approach in Energy Harvested CR-IoT, *Grant No*: IC20201325, *Grants*: Fifteen Lac (15,00,000.00) Taka, *Period*: July, 2022- June, 2025, *Status*: Completed, *Output*: five journal papers, two book chapters and six conference papers published, *Funding*: Ministry of Education (BANBEIS), Palashi-Nilkhet, Dhaka, 1205, Bangladesh (Islamic University)
- [4] **Project Director**, *Title*: Full Duplex based Cognitive Radio-Internet of Things, *Grants*: One Lac and Seventy Five Thousand (1,75,000.00) Taka, *Period*: July, 2021- June, 2022, *Status*: Completed, *Output*: One conference paper published, *Funding*: Islamic University, Kushtia, 7003, Bangladesh.
- [3] **Project Director**, *Title*: Machine Learning Based Malicious User Detection in Energy Harvested Cognitive Radio-Internet of Things, *Grants*: One Lac and Fifty Thousand (1,50,000.00) Taka, *Period*: July, 2020- June, 2021, *Status*: Completed, *Output*: One journal paper published, *Funding*: Islamic University, Kushtia, 7003, Bangladesh.
- [2] **Project Director**, *Title*: Analysis of Sensing and Sum Rate in Energy Harvested Cognitive Radio Network, *Grants*: Two Lac (2,00,000.00) Taka, *Period*: September, 2019 - August, 2020, *Status*: Completed, *Output*: One Journal paper published in Sensor (Q1, MDPI), *Funding*: Ministry of Science and Technology (MOST), Bangladesh (Islamic University).
- [1] **Member**, *Title*: Establishment of Information Technology Research & Resource Center in IU-Kushtia, *Grants*: 4,62,00,000.00 (Taka), *Period*: September, 2011 - August, 2013, *Status*: Completed, **Output**: Several Workshops, Conferences and Journal papers published, *Funding*: University Grants Commission (UGC) of Bangladesh, and World Bank (Islamic University).

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Declaration of Authenticity

I do hereby declare that all the information here is true to the best of my knowledge. If required and where applicable, this document can be supported by appropriate authentic certificates/papers.



[Md. Sipon Miah, Ph.D.]

5th April, 2026