



## Md. Sipon Miah, Ph.D. (Ireland), Postdoc (Spain), SMIEEE

### Professor

Department of Information and Communication Technology  
Room #110, Building # M. A. Wazed Miah  
Islamic University, Kushtia, 7003, Bangladesh.


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### Postdoctoral Research Fellow

Communications Research Group (GCOM), Department of Signal Theory and Communications (TSC), University Carlos III of Madrid (UC3M), Leganes, Madrid, 28911, Spain.

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 www.iu.ac.bd, www.tsc.uc3m.es

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

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

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

**Born** 04 January, 1982

## RESEARCH SUMMARY

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Currently, I am working on machine learning based cooperative spectrum sensing and sum rate analysis in cognitive radio-Internet of things (CR-LoT) networks for separating malicious users from normal users. During my previous postdoctoral fellowship, I worked on an energy efficient based spectrum sensing and throughput analysis in CR-LoT networks. My research is focused on machine learning/deep learning based spectrum sensing and sum rate analysis in CR-LoT networks using different optimization techniques. As a research output, I have published 55 peer reviewed journal papers, 28 conference papers, 2 book chapters, and 3 posters as a first author/co-author. Most of the research works have been done in collaboration with international research groups. I am self-motivated and have a dynamic approach to work and getting things done.

## EDUCATION

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### **Structured 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

**Thesis-Defence:** 24-09-2020

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

**Conferring:** 15-06-2021

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

### **Doctor of Philosophy (Ph.D.)**

Ph.D. in Information and Communication Engineering

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

**Dissertation Title:** "A Cluster Based Cooperative Spectrum Sensing for Cognitive Radio Network using Eigenvalue Detection"

**Advisor:** Prof. Dr. Md. Mahbubur Rahman

**Co-Advisor:** Prof. Dr. Tapan Kumar Godder

**Examiners:** Prof. Dr. Mozaffar Hossain & Prof. Dr. Mohammad Abdur Razzaque

**Awarded:** Ph.D. Degree (14-10-2016)

**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

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Cognitive Radio Network, Wireless Communications, Wireless Sensor Networks, Internet of Things (IoT), Industrial Internet of Things (IIoT), 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 and Deep Learning based Image Processing.

#### PROSPECTIVE STUDENTS

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We have several positions open for M.Sc & Ph.D. students. Highly ambitious and self-motivated students with wireless communication, signal processing, cybersecurity or machine learning background are encouraged to send their CVs, transcripts and representative publications to Prof. Dr. Md Sipon Miah (sipon AT ict.iu.ac.bd), specifying their key research interests as well as their academic credentials.

#### PROFESSIONAL EXPERIENCES

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- Professor** 06.03.2022 – Present Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
- Associate Professor** 06.03.2017 – 05.03.2022 Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
- Assistant Professor** 18.04.2013 – 05.03.2017 Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
- Lecturer** 18.04.2010 – 17.04.2013 Department of Information and Communication Technology, Islamic University, Kushtia, 7003, Bangladesh.
- Foreign Expert Lecturer** 01.08.2022 – 31.08.2022 Internet of Vehicle to Road (IVR) Research Laboratory, Department of Automation, School of Electronics and Control Engineering, Chang'an University, ShaanXi Province, 710064, China.
- Foreign Expert** 01.09.2022 – 31.12.2022 Internet of Vehicle to Road (IVR) Research Laboratory, Department of Automation, School of Electronics and Control Engineering, Chang'an University, ShaanXi Province, 710064, China.

**Assistant Programmer**  
01.07.2009 – 17.04.2010

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

## RESEARCH EXPERIENCES

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**Research Associate**  
01.10.2021 – Present

**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 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/>).

**Research Assistant**  
01.09.2016 – Present

**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 – Present

**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

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

Summer Lecture:- Probability Theory and Stochastic Process for Engineering I<sup>2022</sup>, Probability theory and stochastic process for engineering II<sup>2022</sup>, Optimization techniques in wireless communications research<sup>2022</sup>, Technologies and Architectures for new terrestrial communication system<sup>2022</sup>

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

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

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

13497:- Communication Theory Laboratory<sup>2021/22,22/23,23/24</sup>, 13842:- Digital Communications Laboratory<sup>22/23,23/24</sup>, 15369:- Systems and Circuits<sup>23/24</sup>.

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

CT255:- Next Generation Technologies I, II & III<sup>2016</sup>, CT331:- Programming Paradigm<sup>2016</sup>, CT331:- Programming Paradigm<sup>2016</sup>, CT248-345:- Introduction to Modelling<sup>2017</sup>, CT209:- OOP-Data Structure & Algorithms<sup>2017</sup>, CT807:- Internet Programming<sup>2017</sup>, CT3535:- Object Oriented Programming III<sup>2017</sup>, CT248:- Introduction to Modelling<sup>2018</sup>, CT216:- Software Engineering<sup>2018</sup>.

**Lecture in M.Sc., Dept. of ICT, Islamic University, Bangladesh**

Wireless Communications, Advanced Digital Communications, Convex Optimization<sup>2024</sup> and Stochastic Process.

**Lecture in M.Sc. (Evening), Dept. of ICT, Islamic University, Bangladesh**

Internet Application & Security, Database Management, Systems and Cellular Mobile Communications, Data Communications & Computer Networking<sup>2020</sup>

**Lecture in B.Sc. (Engg.), Dept. of ICT, Islamic University, Bangladesh** Digital Electronics<sup>2011,12</sup>, Discrete Mathematics<sup>2016</sup>, Numerical Analysis<sup>2024</sup>, Signal and Systems<sup>2020,24</sup>, Data Communications and Networking, Computer Networking, Optical Communications<sup>2016</sup>, Electronic Communications and Microwave Engineering<sup>2024</sup>, Statistics for Communication Engineering<sup>2015</sup>, AI and Interfacing and Telecommunication System Engineering, Programming Languages C<sup>2019</sup>, Digital Signal Processing<sup>2018,19,20,24</sup>, Operating Systems<sup>2019</sup>.

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#### ADMINISTRATIVE AND OTHER EXPERIENCES

**Provost** **Bangamata Sheikh Fazilatunnesa Mujib Hall (BSFMH)**, Islamic University, Kushtia, 7003, Bangladesh.  
20.04.2024 – 19.04.2025

**Member** **Technical Sub-Committee, GST Combined Admission Examination**, Islamic University, Kushtia, 7003, Bangladesh.  
2023 – 2024

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#### SCHOLARSHIP AND AWARDS

**Visiting Professor** **Visiting Professor (Short-Term)**, Department of Energy and Electrical Engineering (EEE), Changan University, Xian, China (<https://enndxy.chd.edu.cn/>).  
21.12.2023 – 03.01.2024

**30 Postdoctoral Fellowship** **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>).  
01.11.2021 – Present

**Teaching Excellent Acknowledgment** **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.  
2021 – 2022

**Hardiman Scholarship** **For Structured Ph.D. Degree**, Department of Information Technology (IT), University of Galway, Galway, Ireland (<https://www.universityofgalway.ie/hardiman-scholarships/>).  
01.09.2016 – 30-08-2020

**ICT Scholarship** **For Ph.D. Degree**, the Ministry of Information and Communication Technology Division (ICTD), Dhaka, Bangladesh (<http://www.ictd.gov.bd/>).  
01.01.2013 – 30-07-2016

**Talent Pool Scholarship** **For obtaining M.Sc. Degree with Grade: A- (1st Position in order of merit)**, Islamic University, Kushtia, 7003, Bangladesh (<https://www.iu.ac.bd>).  
01-03-2006 – 30-02-2007

**Talent Pool Scholarship** **For obtaining B.Sc. Degree with First Class (2nd Position in order of merit)**, Islamic University, Kushtia, 7003, Bangladesh (<https://www.iu.ac.bd>).  
01-03-2002 – 30-02-2006

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#### EDITORIAL BOARD MEMBER/REVIEWER/TPC

**Guest Editor** International Conference on Artificial Intelligence and Manufacturing (AIAM2020), October, 15-17, Manchester, United Kingdom.

**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) "10-06-2024 – 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**

26<sup>th</sup> 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)

**Session Chair**

26<sup>th</sup> International Conference on Computer and Information Technology (ICCIT), December 13-15, 2023, Long Beach Hotel, Cox's Bazar, Chittagong, Bangladesh.  
 11<sup>th</sup> 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.  
 1<sup>st</sup> International Conference on Next-generation Computing, IoT and Machine Learning (NCIM), June 16-17, 2023, DUET, Gazipur, Bangladesh.

**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 (IoTIIP), 2024  
 The 9<sup>th</sup> International Conference on Computer and Communication Systems (ICCCS), 2024

**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, C#.NET, Python

**Simulation Tools**

MATLAB, OPNET, NS2

**Web Applications**

HTML, ASP.NET, ASP

**Database Software** Oracle, SQL Server, Petri Nets, LaTeX

## ACADEMIC ACTIVITIES

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

**Academic Council Member** Islamic University, Kushtia, 7003, Bangladesh.  
06-03-2022 – Present

**Board of Advanced Studies Member** Islamic University, Kushtia, 7003, Bangladesh.  
06-03-2022 – Present

**Faculty Member** Faculty of Engineering and Technology, Islamic University, Kushtia, 7003, Bangladesh.  
06-03-2022 – Present

**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 – Present

**Assistant Director** ICT CELL (formerly Computer Centre), Islamic University, Kushtia, 7003, Bangladesh.  
02-03-2014 – 06-04-2015

## M.Sc. THESIS DEFENSE COMMITTEE

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- Member, Dept. of TSC, UC3M, Leganes, Spain**
06. Mahbloos Khan, M.Sc. (Thesis)  
**Title:** Analysis of PAPR Reduction by Implementing Precoding Techniques in OFDM<sup>2023/24</sup>.
05. Oscar Becerril Roman, M.Sc. (Thesis)  
**Title:** Software-Defined Radio Experiments with USRP B210 Applied to Communication Subjects<sup>2022/23</sup>.
04. Steven Jesús Paz Barrera, M.Sc. (Thesis)  
**Title:** Visible Light Backscatter communication system for very-low power and tiny IoT devices<sup>2022/23</sup>.
03. Shaya Ganji, M.Sc. (Thesis)  
**Title:** Identification of Digital Modulation Using Discrete Wavelet Transform<sup>2022/23</sup>.
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<sup>2022/23</sup>.
01. Ezeddine Amar, M.Sc. (Thesis)  
**Title:** LTE Network for SCADA with the Polling Algorithm<sup>2022/23</sup>.

## WORKSHOP

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**Resource Person** **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.  
08-11-2023

## PROJECT EVALUATION COMMITTEE

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**Member** The project evaluation committee for research grants funded by the University Grant Commission (UGC) of Bangladesh, Islamic University, Kushtia, 7003, Bangladesh.  
Fiscal Year: 2024 – 2025

**Examiner** The project evaluation committee for research grants funded by the University Grant Commission (UGC) of Bangladesh, Islamic University, Kushtia, 7003, Bangladesh.  
Fiscal Year: 2021 – 2022

## SUPERVISION

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- 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 (On going).*
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.)** 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

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- 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
- Publications Editor** Bangabandhu Parishad, Islamic University, Kushtia, 7003, Bangladesh.  
22-12-2019 – Present
- Member** Bangabandhu Parishad, Islamic University, Kushtia, 7003, Bangladesh.  
18-04-2010 – Present
- Member** Shapla Forum, Islamic University, Kushtia, 7003, Bangladesh.  
18-04-2010 – 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

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- [1] R. V. Suganya, A. V. Senthil Kumar, **Md Sipon Miah** and Fahima Hajje, "AI-Driven Medical Imaging and Diagnosis," published by **CRC Press**, 2024 (working on).

## Published Book Chapters

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- [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

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[76] Priyanti Paul Tumpa, Md. Saiful Islam, **Md Sipon Miah**, Mohammad Alibakhshikenari, Syed Mansoor Ali, Bal S. Virdee, and Giovanni Pau "Machinery Bearing Fault Identification through Parallel Convolution Neural Network and Support Vector Machine Analysis." **Sensors (MDPI, SCIE)**, 2023 (Submitted).

[75] Md Masum Billah, Mohammad Nuruzzaman Bhuiyan, Md Akkas Ali, Farzana Bhuiyan, Azmery Sul-tana, Mohammad Shorif Uddin, **Md Sipon Miah**, Syed Mansoor Ali, Mohammad Alibakhshikenari, Farhad Arpanaei, and Giovanni Pau "A Decentralized Blockchain Oriented Security Model for the Internet of Things (IoT)-based Healthcare Monitoring System." **Radio Science**, 2023 (Submitted).

[74] Angona Biswas, Md. Saiful Islam, **Md Sipon Miah**, Mohammad Alibakhshikenari, Syed Mansoor Ali, Bal S. Virdee, and Giovanni Pau "Machinery Bearing Fault Identification through Parallel Convolution Neural Network and Support Vector Machine Analysis." **IEEE Access**, 2023 (Submitted).

[73] Angona Biswas, Md. Saiful Islam, **Md Sipon Miah**, Mohammad Alibakhshikenari, Syed Mansoor Ali, Bal S. Virdee, and Giovanni Pau "Hybrid Custom CNN-ML-Based Framework with Ensemble Technique for Brain Tumor Classification with Different Multiclass Detasets." **IEEE Access**, 2023 (Submitted).

[72] **Md. Sipon Miah**, Md. Amzad Hossain, Kazi Mowdud Ahmed, Md. Khairul Islam, and Md. Mahbubur Rahman "MU-MIMO Based Spectrum Sensing and Sum Rate in a Cognitive Radio for Internet of Vehicular Things." **IEEE Transactions on Communications and Networking**, 2023 (Submitted).

[71] He Huang, Kaiyi Hu, Mingbo Niu, Huifeng Wang, and **Md. Sipon Miah**, "Single-Image Haze Removal Using Linear Adaptive Atmospheric Light and Dark Channel Prior." **IEEE Transactions on Geoscience and Remote Sensing**, 2022 (Submitted).

[70] Mohammad Amzad Hossain, Michael Schukat, Enda Barrett, **Md. Sipon Miah**, Md. Mahbubur Rahman and Ming-bo Niu, "A Hybrid Spectrum Sensing Technique for Cognitive Radio Based Networks with Uncertain Noise Power." **Sensor (MDPI)**, 2022 (Submitted).

[69] Jie Li, Zhixin Zhang, Mingbo Niu, **Md. Sipon Miah** and Shiming Zhao, "On Predicting High-Power Lithium Battery Remaining Useful Life Using Improved GS-SVM Approach." **Energies [MDPI, SCIE, Q1, IF: 3.2]**, 2023 (Under review).

[68] Mingbo Niu, **Md. Sipon Miah**, Mohammad Amzad Hossain, Calhan Ali, and Murtaza Cicioglu, "LR-SVM-kNN Fusion-based Malicious Users Detection in Energy Harvested Cognitive Radio-Industrial Internet of Things." **IEEE Internet of things Journal [SCIE, Q1, IF:10.6]** 2024 (Under review).

[67] 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, "Enhancing Brain Tumor Detection and Classification in MRI Using Hybrid ViT-GRU Model with Explainable AI: A Case Study of Southern Bangladesh." **Scientific Reports [WoS, Q1, IF:3.8]** 2024 (Revision required).

[66] 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 [SCIE, Q1, IF:7.0]** 2024 (Revision required).

[64] He Huang, Dong-qiang Li, Ming-bo Niu, Fei-yu Xie, **Md. Sipon Miah**, Tao Gao and Hui-feng Wang, "Multiple UAVs Networking Oriented Consistent Cooperation Method Based on Adaptive Arithmetic Sine-Cosine Optimization." **Drones [SCIE, Q1, IF:4.8]** 2024.

[63] 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**, 2024 (Major revisions required).

[62] He Huang, Wen-long Li, Mingbo Niu, **Md. Sipon Miah**, Tao Gao, and Hui-feng Wang "A Long-term Vehicle Tracking Algorithm of Correlation Filter Optimized by Swarm Intelligence Tracking Framework." **IEEE Transactions on Geoscience and Remote Sensing [SCIE, Q1, IF: 8.20]**, 2024 (To be appeared).

[61] Mirza Raquib, Mohammad Amzad Hossain, Md Khairul Islam, and **Md Sipon Miah** "VashaNet: An automated system for recognizing handwritten Bangla basic characters using deep convolutional neural network." **Machine Learning with Applications (Elsevier)**, S2666- S2666-8270(24)00044-6, 2024.

[60] He Huang, Wen-long Li, Mingbo Niu, **Md. Sipon Miah**, Tao Gao, and Hui-feng Wang, "Multi-UAVs assisted path planning method for terrain-oriented air-ground collaborative vehicular network architecture." **IEEE Transactions on Intelligent Vehicles [SCIE, Q1, IF: 8.20]**, 2024.

[59] Ming-Bo, Hu-Cheng Wang, Yipu Zhang, Biao Wang, **Md. Sipon Miah**, and He Huang, "Precise Error Performance of Coherent BPSK Modulated THz Wireless LOS Links with Pointing Errors." **Optics Express [SCIE, Q1, IF: 2.80]**, 2024.

- [58] Yi-qing Huang, He Huang, Mingbo Niu, **Md. Sipon Miah**, Hui-feng Wang and Tao Gao, "UAV Complex Scene Single Target Tracking based on Proved Re-detection Staple Algorithm." **Remote Sensing [MDPI, SCIE, Q1, IF: 5.00]**, 2024.
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#### Published Posters

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[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. Shafiu 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

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[16] **Md. Sipon Miah**, "Convex Optimization Techniques in Wireless Transmission Systems," **Room 612, IVR Low-Carbon Research Institute, Chang'an University**, Xian, China, 23<sup>rd</sup> 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, 18<sup>th</sup> 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, 29<sup>th</sup> 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, 27<sup>th</sup> 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, 25<sup>th</sup> 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, 22<sup>nd</sup> 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, 31<sup>st</sup> 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, 17<sup>th</sup> 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, 6<sup>th</sup> 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, 26<sup>th</sup> 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, 7<sup>th</sup> 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)

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[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: On-going, 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: On-going, Output: NA, 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: On-going, Output: NA, 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: On-going, Output: NA, 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: On-going, Output: NA, 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: NA, 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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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.]**

*24 July, 2024*