

CV of: Dr. Monisha Devi

Name: DR. MONISHA DEVI

Designation: ASSISTANT PROFESSOR

Address for Communication: (office): Department of Computer Science and Engineering,

Girijananda Chowdhury University, Azara,

Guwahati – 781017, Assam

Mobile No.: 8638450388

WA No: N/A

Email: monisha_cse@gcuniversity.ac.in

Date of Birth: 3rd July 1988

Educational Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 th Std.	2005	CBSE	Mathematics, Science, English, Hindi, Social Studies
2	HSSLC/10+2 Std.	2007	CBSE	Mathematics, Physics, Chemistry, Biology, English
3	Degree (Please Specify)	2012	Jorhat Engineering College (Dibrugarh University)	Computer Science
4	Master's Degree (Please Specify)	2015	Tezpur University	Information Technology
5	M. Phil.(Please Specify)	N/A	N/A	N/A
6	Ph. D. (Please Specify)	2022	Tezpur University	Computer Networks

7	Post-Doctoral (Please Specify)	N/A	N/A	N/A
8	Others(Please Specify)	GATE, UGC NET Lectureship		Computer Science

Languages known:

- Assamese
- English
- Hindi

Academic Experience:

- Assistant Professor (Contractual) in Tezpur University from March 2018 to December 2019.
- Guest Faculty in Tezpur University from January 2020 to June 2022.
- Assistant Professor in Girijananda Chowdhury University from August 2023 till date.

List of Publications:

Journals:

1. Prarthana Saikia, Sanjib K. Deka, **Monisha Devi**, “Cooperative Spectrum Sensing and Routing Related Security Vulnerabilities in Cognitive Radio Networks: Issues, Solutions and Future Challenges”, *International Journal of Communication Networks and Distributed Systems*, **2024**. (SCI)
2. Prarthana Saikia, Sanjib K. Deka, **Monisha Devi**, “Security Enhanced Clustering Scheme for Routing in Cognitive Radio Sensor Networks”, *IEEE Access*, **2024**. (SCI)
3. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Single-Sided Truthful Auction Mechanism for Heterogeneous Channel Allocation in Cognitive Radio Networks”, *Wireless Networks (Springer)*, **2023**. (SCI)
4. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “A Single-Channel Single-Winner Auction Model for Homogeneous Channel Allocation in CRNs”, *Physical Communication, (Elsevier)*, **55**, **2022**. (SCI)
5. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “A Double Auction Framework for Multi-Channel Multi-Winner Heterogeneous Spectrum Allocation in Cognitive Radio Networks”, *IEEE Access*, **9**, 72239-72258, **2021**. (SCI)
6. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “A Centralized Model Enabling Channel Reuse for Spectrum Allocation in Cognitive Radio Networks”, *Cybernetics and Information Technology*, **21(2)**, 183-200, **2021**. (SCI)
7. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Multi-Winner Spectrum Allocation in Cognitive Radio Networks: A Single-Sided Auction Theoretic Modelling Approach with

Sequential Bidding”, *Electronics (MDPI)*, 10(5), 602, **2021**. (SCI)

8. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Deployment of Auction Theoretic Models for Spectrum Allocation in Cognitive Radio Networks”, *Journal of Computer Science*, 16(5), 632- 641, **2020**. (SCOPUS)
9. **Monisha Devi** and Dipjyoti Deka, “A Survey on Routing Protocols for Cognitive Radio Networks”, *International Journal of Engineering Research and Technology (IJERT)*, ISSN: 2278- 0181, **2015**.

Book Chapters:

1. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “DAMW: Double Auction Multi- Winner Framework for Spectrum Allocation in Cognitive Radio Networks”, *20th International Conference on Innovations for Community Services (I4CS)* (Springer CCIS, volume 1139), **2020**. (SCOPUS)
2. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Multi-Winner Heterogeneous Spectrum Auction Mechanism for Channel Allocation in Cognitive Radio Networks”, *16th International Conference on Distributed Computing and Intelligent Technology (ICDCIT)* (Springer LNCS, volume 11969), **2020**. (SCOPUS)
3. **Monisha Devi**, Nityananda Sarma and Sanjib K. Deka, “A General Framework for Spectrum Assignment in Cognitive Radio Networks”, *11th International Conference on Advanced Computing and Communication Technologies (ICACCT)* (Springer AISC, volume 702), **2018**. (SCOPUS)
4. **Monisha Devi**, Nityananda Sarma and Sanjib K. Deka, “Spectrum Allocation in Cognitive Radio Networks - A Centralized Approach”, *1st International Conference on Advanced Computational and Communication Paradigms (ICACCP)* (Springer LNEE, volume 475), **2017**. (SCOPUS)

Conferences:

1. Prathana Saikia, Sanjib K. Deka, **Monisha Devi**, “Trust-Based Security Solution for Attack Detection in Cognitive Radio Sensor Networks”, *17th IEEE COMSNET*, **2025**.
2. Prathana Saikia, Sanjib K. Deka, **Monisha Devi**, “A Robust Trust Mechanism for Detecting NO-OFF Attacks in Cognitive Radio Sensor Networks”, *IEEE CALCON*, **2024**.
3. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Single-Sided Auction Based Multi-Channel Allocation with Spectrum Reuse in CR Networks”, *15th IEEE ICCCNT*, **2024**.
4. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Spectrum Auction Mechanism based on Concurrent Bidding for Channel Allocation in Ad Hoc CRNs”, *18th IEEE INDICON*, **2021**.
5. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka and Prakash Chauhan, “Sequential Bidding Auction Mechanism for Spectrum Sharing in Cognitive Radio Networks”, *11th IEEE ANTS*, **2017**.
6. **Monisha Devi**, Nityananda Sarma and Sanjib K. Deka, “Allocation and Access Mechanisms for Spectrum Sharing in CRNs - A Brief Review”, *International Conference on Accessibility to Digital World (ICADW)*, **2016**.
7. **Monisha Devi**, Nityananda Sarma and Sanjib K. Deka “Dynamic Virtual Backbone based Routing in Cognitive Radio Networks”, *9th IEEE ANTS*, **2015**.

Research Experience:

1. DST INSPIRE Junior Research Fellow in Tezpur University during PhD.
2. Senior Research Fellow in MHRD sponsored Centre of Excellence project in Tezpur University.
3. Guided 2 BTech projects, 2 MCA projects and 3 MTech projects.

Paper Presentations:

1. Presented paper in the IEEE International Conference on, Computing, Communication and Networking Technologies (ICCCNT), IIT Mandi, 2024.
2. Presented paper in the IEEE INDICON, IIT Guwahati, 2021.
3. Presented paper in the International Conference on Innovations for Community Services (I4CS) KIIT, Bhubaneswar, 2020.
4. Presented paper in the International Conference on Distributed Computing and Intelligent Technology (ICDCIT), KIIT, Bhubaneswar, 2020.
5. Presented paper in the International Conference on Advanced Computing and Communication Technologies (ICACCT), Asian Pacific Institute of Information Technology, Panipat, 2018.
6. Presented paper in the IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS), CV Raman College of Engineering, Bhubaneswar, 2017.
7. Presented paper in the International Conference on Advanced Computational and Communication Paradigms (ICACCP), Sikkim Manipal Institute of Technology, Sikkim, 2017.
8. Presented paper in the International Conference on Accessibility to Digital World (ICADW), Assam Engineering College, Assam, 2016.

Membership of Professional bodies:

1. IEEE (Institute of Electrical and Electronics Engineers) Member

Award, Fellowship & Recognition:

1. Recipient of DST INSPIRE Fellowship Award
2. Gold Medallist of MTech in Information Technology
3. Best Postgraduate Award by Tezpur University for the year 2015
4. Recipient of NEC Scholarship
5. Reviewer of following Journals:
 - IEEE Access
 - IEEE Communication Letters
 - IEEE Transactions on Mobile Computing
 - IEEE Wireless Communication Magazine
 - Physical Communication