

MS. ANTARA MALAKAR*Assistant Professor**Department of Computer Science & Engineering**The Assam Royal Global University**Guwahati, Assam, India*<https://www.rgu.ac>

Mobile: +91-9678440329

Email: antaram2010@gmail.com, antara.malakar@rgi.edu.in**Education**

Pursuing Ph.D. at The Assam Royal Global University, Guwahati, Assam under the supervision of **Prof. (Dr.) Ankur Ganguly**, Dean Academics and i/c Dean – Royal School of Engineering & Technology, Royal School of Information Technology, The Assam Royal Global University, Guwahati.

Dissertation title: Design and development of Deep Learning based model for prediction of eye diseases in North-Eastern States of India (In progress)

Master of Technology (M. Tech), 2012, Sikkim Manipal Institute of Technology, Specialization: Computer Science & Engineering

Dissertation title: An Artificial Immune System for Human-Computer Interaction Through Speech

Bachelor of Engineering (B.E.), 2009, Computer Science & Engineering, East Point College of Engineering and Technology, Bangalore

Dissertation title: Face recognition using Laplacian faces

Academic Experience

06.08.2012 till date: **Assistant Professor**, Royal School of Engineering & Technology, Royal School of Information Technology, The Assam Royal Global University, NH-37, opp. Tirupati Balaji Temple, Betkuchi, Guwahati, Assam 781035, India. www.rgu.ac

Publications

| | | |
|------------------------|--------------------------|---|
| Research papers | International Journal | 2 |
| | International Conference | 2 |
| | National Conference | 1 |

Journals

1. **Antara Malakar**, "*An Artificial Immune System for Ambiguity Reduction of Text Using Parsing through Speech*", *International Journal of Engineering Science and Invention*, Vol. 2, Issue 7, July 2013, PP. 1-8, ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726

2. **Antara Malakar**, Tejbanta Singh Chingtham, **“An Artificial Immune System for Human-Computer Interaction through Speech”**, *International Journal of Instrumentation and Control Systems (IJICS)*, Vol 2, No. 3, July 2012, PP 27-37.

Conferences

1. **Antara Malakar**, Dr. Ankur Ganguly, Dr. Swarnendu Kumar Chakraborty, **“Development of CNN-based Feature Extraction and Multi-Layer Perceptron for Eye Disease Detection”**, 3rd International Conference on Advanced Computing and Intelligent Technologies (ICACIT 2023)" virtually Jointly Organised by Indira Gandhi National Tribal University - Regional Campus Manipur and ADSR Education and Research Foundation on December 8-9, 2023. (Springer).
2. Ankur Ganguly, **Antara Malakar**, **“A Frequency Domain Approach to Analyze Heart Rate Variability (HRV) Among the Resident Population of the Himalayan Regions of West Bengal – An Approach towards achieving Sustainable Development Goal 3 (SDG3)”**, 1st Two-Day International Conference on “Emerging Trends in Business & Management – A Lookout for Multidisciplinary Approaches for Sustainable Growth” (IC-ETBM 2023) on 16th & 17th June 2023, The Assam Royal Global University

National Conference

1. Aniruddha Deka, Antara Malakar, **“Spoken Web: A technology for underprivileged”**, Recent Trends and Techniques in Computer Science and Technology, on 15th March 2013 Bodoland University, DOI:[10.13140/2.1.2017.2483](https://doi.org/10.13140/2.1.2017.2483)

| | | |
|----------------|---------------------------|--|
| Patents | | 2 |
| 1. | Title of the invention | IOT based Smart Cholesterol Monitoring Device |
| | Patent Office Journal No. | 07/2024 |
| | Application no. | 399316-001 |
| | Application date | 06/11/2023 |
| | Publication date | 16/02/2024 |
| | Name of the inventors | Ms. Antara Malakar , Dr. Prasanta Kumar Patra, Dr. Bobby Mathews C, Vijayalakshmi N |
| 2. | Title of the invention | DESIGNING OF ULTRA LOW POWER WI-FI IOT MODULES |
| | Patent Office Journal No. | 10/2023 |

| | |
|---|--|
| Application no. | 202331015013 |
| Application date | 06/03/2023 |
| Publication date | 10/03/2023 |
| Name of the inventors | Dr. Anupam Das, Dr. Ishita Chakraborty, Dr. Vaskar Deka, Ms. Antara Malakar , Mr. Nayan Jyoti Kalita, Ms. Ankita Goyal Agarwala |
| SLM for other Universities | 3 |
| Membership of Professional Bodies | |
| <ol style="list-style-type: none"> 1. Life Member (Member No. 133460) International Associations of Engineers 2. Professional Member (Member No. 0187274) Association for Computing Machineries | |
| Courses Taught | |
| Compiler Design, Mobile Computing, Operating Systems, Multimedia, Object Oriented Programming, Computer Vision, Principles of Programming Languages, Computer Vision, Design & Analysis of Algorithms. | |
| Research Interest | |
| Machine Learning, Artificial Immune System, Disease Analysis, Robotics | |
| Faculty Development Programme / Short Term Courses / Workshops attended | |
| <ol style="list-style-type: none"> 1. Workshop on AI in healthcare held from 27-28 June 2023 organized by Department of Computer Science & Information Technology, Cotton University, Assam 2. FDP on NEP and Mentoring Pedagogy and Classroom Delivery Enhancement Techniques organized by E&ICT Academy and IIT Guwahati held from 10-15 July 2023 in association with IQAC, Silapathar Town College and IQAC, Jonai Girls' Colege. 3. Two weeks FDP on Advanced Concepts on Developing MOOCS held from 2 July to 17 July 2020 organized by Teaching Learning Centre , Ramanujam College , University of Delhi sponsored by MHRD, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching. 4. One week online FDP on LATeX held from 29 June to 3 July 2020 organized by Department of Information Technology, Mizoram University in association with Spoken Tutorial Project, IIT Bombay, under MHRD , Govt. of India. | |

5. IEEE Workshop on Advanced MATLAB Applications to Robotics and Signal Processing held from 7-8 October 2017 organized by IIT Guwahati
6. Course on **Scalable On-Chip Interconnects for Many-Core Systems** held from 24-30 May 2017 organized by IIT Guwahati under MHRD, Govt. of India
7. Short Term Course on **Recent Advances in Computer Architecture** held from 30 May to 3 June 2016 organized by IIT Guwahati, under the Technical Education Quality Improvement Programme, sponsored by MHRD, Govt of India.
8. National Workshop on GPU Programming and Applications held from 12-14 September 2014 organized by IIT Guwahati
9. Short Term Programme on **Institutional Development** held from 15-19 July 2013 organized by National Institute of Technical Teacher' Training and Research, Kolkata, under MHRD, Govt. of India.
10. Workshop on **Decision Making, Quantum Probability and Modelling in Cognitive Science** held from 21-22 March 2013 jointly organized by Indian Statistical Institute and Tezpur University.
11. DIT sponsored Workshop on **Introduction to Computational Phonetics, Phonology and Prosody** held from 23-29 December 2012 organized by Department of Computer Science & Engineering, Tezpur University
12. Certificate course on **Principles of Remote Sensing & Satellite Image Processing with Applications in Natural Resource Management** held from 19 October to 14 November 2009.

Participation in Seminar / Symposium

1. Two days National Seminar on **Role and Importance of Research in Technical Education** held from 18-19 January 2018 jointly organized by Girijananda Chowdhury Institute of Management and Technology, Guwahati and Assam Science and Technology University (Under TEQIP III)
2. 4th National Symposium on High **Performance Computing in Academia and Beyond** held on 5 October 2013 organized by Assam Engineering College, Guwahati sponsored by CDAC
3. Seminar on **Information Security and Cyber Crime** held on 2 March 2013 organized by Department of Computer Science & Engineering , RSET, Gyan Sagar Foundation Group of Institutions, Guwahati

University Engagements

1. NAAC Steering Committee Member: Criteria 4
2. Mentor Mentee Committee Member
3. Attendance Committee Member

Web of Science Researcher ID : HSG-7638-2023

Orcid ID : 0009-0000-0576-5721

<https://scholar.google.com/citations?user=IdRW57EAAAAJ&hl=en>

Ms. Antara Malakar

Place : Guwahati