**Department of Computer Science and Engineering**

**Publication Lists of Faculties**

**Name of the Faculty:** Dr. Minakshi Gogoi

**Publications:** (**International Conference)**

1. Gogoi, M. **“An Effective Method For Automated Classification Of Fishes And Their Pricing System Using Deep Learning And Chatbot Technology”**, International Hybrid Conference, Bioeconomics, 2023, IIT Guwahati, 11th-12th October, 2023
2. Gogoi, M. **“Classification of Assam Silk Fabrics using Artificial Intelligence”,** North- East Research Conclave and Assam Biotech Conclave 2022- Towards Sustainable Science and Technology, IIT Guwahati, 20-22 May, 2022
3. S. Medhi, S., Gogoi M., **“Visualization and Analysis of COVID-19 Impact on PM2.5 Concentration in Guwahati city”**, International Conference on Computational Performance Evaluation (ComPE) North-Eastern Hill University, Shillong, Meghalaya, India.Dec 1-3, 2021,IEEE, doi: 10.1109/ComPE53109.2021.9752244
4. **Gogoi, M. “An effective Tea Leaves Quality Verification method using Machine Learning approach",** presented on the Second International Conference on Advances in Electrical, Electronic and System Engineering (ICAEESE 2019), Gauhati University, Assam, 2-3 November, 2019.
5. **Gogoi, M. “QUALITY VERIFICATION OF ASSAM SILK USING MACHINE LEARNING AND DEEP LEARNING APPROACHES: A STUDY”,** presented on the International Conference on Electrical, Communication, Electronics, Instrumentation and Computing (ICECEIC-2019), Sri Chandrasekharendra Saraswathi Biswa Mahavidyalaya, Tamil Nadu, India, 30-31st January, 2019.
6. Gogoi, M. and Bhattacharyya. D.K., **“AN EFFECTIVE CLASSIFIER FUSION
APPROACH FOR PALMPRINT BASED IDENTITY VERIFICATION”,** presented and published on the Proc. Of International Conference on Electronic Devices, Circuits, Applied Electronics and Communication technology ( EDCAECT 2015), Gauhati University, Guwahati, 8th -10th October, 2015
7. Gogoi, M. and Das J., **“INDEXING OF VOLUMINOUS DATA: ITS NEEDS AND CHALLENGES”**, published on the Proc. of **International Conference on Electronic Devices, Circuits, Applied Electronics and Communication technology (EDCAECT 2015)**, Gauhati University, Guwahati, 8th -10th October, 2015.
8. Gogoi, M., Devi, G., “**CLOUD IMAGE ANALYSIS FOR RAINFALL PREDICTION: A SURVEY**” published on the Proc. of **International Conference on Electronic Devices, Circuits, Applied Electronics and Communication technology ( EDCAECT 2015)**, Gauhati University, Guwahati, 8th -10th October, 2015
9. Gogoi, M. and Bhattacharyya. D.K., “**BIOMETRICS FUSION, ITS NEEDS AND CHALLENGES”, presented on International Conference on Green Energy & Smart Materials Through Science, Technology and Management (GESM’14), 21-23 January, 2014, Gauhati University.**
10. Gogoi, M. and Bhattacharyya. D.K., **“FUSION OF FINGERPRINT AND IRIS BIOMETRICS USING BINARY ANT COLONY OPTIMIZATION”, presented on Third International Conference on Soft computing for problem solving, December 26—28, 2013, Greater Noida Extension Centre, IIT Roorkee, published on AISC series of Springer Journal.**
11. Gogoi Minakshi, Deka Rupkumar, Mazumdar Deepjyoti, Das Rupam, Barman Manasjyoti, “ **A SECURED TEMPLATE BASED FACE RECOGNITION TECHNIQUE”**, **Proc. International Conference on Advanced Computer Science & Information Technology(ACSIT- 2012)Chennai, India, July 2012. ISSN: 2231-5403[Online], ISBN: 978-1-921987-04-5**
12. Kalita, S. K., Gogoi, M., and Talukdar, P. H., “**A CEPSTRAL MEASURE OF THE SPECTRAL CHARACTERISTICS OF ASSAMESE AND BODO PHONEMES FOR SPEAKER VERIFICATION**”, Proc. 1st International Conference on Computer, Communication, Control and Information Technology (C3IT-09), pp.233-239, Macmillan Publishers India Ltd, ISBN 023-063-759-0, First Published, 2009.

**(National Conference)**

1. **Gogoi, M. , “DESIGN OF AN AUTOMATED TOOL FOR ARTIFICIALLY RIPENED FRUIT QUALITY DETECTION SYSTEM USING IMAGE PROCESSING”,** presented on **National conference on Applied Sciences, Sustainable & Evolving Technologies, organized by CIT Kokrajhar, 9-11 march, 2018.**
2. **Gogoi, M., “Image Quality Parameter Detection: A Study”,** presented on **National conference on recent Innovative trends on Engineering and Technology (NCRITET, 2016)** organised by GIMT, Guwahati, 11-12 November, 2016
3. **Gogoi, M., “Indexing of Voluminous Data Using K-D Tree with reference to CBIR”,** presented on **National conference on Recent Innovative Trends in Engineering and Technology (NCRITET, 2016 ),** organized by GIMT, Guwahati, 11-12 November, 2016
4. Gogoi, M. and Bhattacharyya. D.K, “**MULTI-OBJECTIVE OPTIMIZATION PROBLEM SOLVING FOR IMAGE PROCESSING”,** presented on **National Seminar on Science and Technology for Sustainable development,** organized by Assam Science Society, Goalpara College, Goalpara, 23rd January, 2016.
5. Gogoi, M. and Bhattacharyya. D.K., **“FUSION OF FINGERPRINT AND IRIS BIOMETRIC USING BINARY PARTICLE SWARM OPTIMIZATION”,** Proc. National Workshop on Network Security (NWNS 2013) Tezpur University, March 15-16,2013, Narosa Publishing House Pvt. Ltd., ISBN , Published, 2013.
6. Gogoi, M. and Bhattacharyya. D.K., **“FINGERPRINT CLASSIFICATION USING MINUTIAE SCORE”, Proc. National Conference on Trends in Machine Intelligence** 2011, (NCTMI '11), pp. 161-169, Narosa Publishing House Pvt. Ltd., ISBN 978-81-8487-140-1, Published, 2011.

**(Journal)**

1. **Medhi S., Gogoi, M, “COMPARISON OF NON-ENSEMBLED AND ENSEMBLED SUPERVISED MACHINE LEARNING TECHNIQUES FOR PM2.5 PREDICTION IN GUWAHATI CITY”,** Juni Khyat, Vol. 13, Issue 06 , no. 01, June, 2023, UGC Care list Journal
2. **Ain A,M.Gogoi, “ CNN-ENHANCED MULTI-INDICES PATCH-BASED CLASSIFICATI- ON: A CASE STUDY OF GUWAHATI CITY”-** International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 9 Issue XII Dec 2021- Thomson Routers and UGC CARE.
3. Buragohain B. Das D., Baisya B., Gogoi M., **"Hand Gesture-Based Computer Vision Mouse"**, Lecture Notes in Network System(LNNS), volume 404, 28th June, 2022, Springer , Singapore, ISBN: 978-981-19-0105-8
4. **Ahmed M., Gogoi, M. “AN EFFECTIVE IMAGE QUALITY ESTIMATION METHOD FOR COLOR IMAGE” International Journal of Computer & Mathematical Sciences,** Volume 6, Issue 8, August 2017, ISSN 2347-8527.
5. Gogoi, M., Devi, G.” **FEATURE EXTRACTION TO DETECT CLOUDS FROM SATELLITE IMAGE USING ASSOCIATION RULE MINING** ” I**nternational journal of advanced electronics & communication systems.,2017 , ISSN NO: 2277-7318**
6. Gogoi, M., **Ahmed M. “Image Quality Parameter Detection : A Study” International Journal of Computer Sciences and Engineering :** Volume-4, Special Issue-7, Dec 2016 ISSN: 2347- 2693
7. Das, J, Gogoi, M. **“Indexing of Voluminous Data Using K-D Tree with Reference to CBIR” , International Journal of Computer Sciences and Engineering:** Volume-4, Special Issue-7, Dec 2016 ISSN: 2347-2693
8. Gogoi, M., Devi, G., “**CLOUD IMAGE ANALYSIS FOR RAINFALL PREDICTION: A SURVEY**”, **Advanced Research in Electrical and electronic Engineering**, 2(13), 2015
9. Gogoi, M., Bhattacharya, D.K. “**AN EFFECTIVE METHOD FOR MULTI-BIOMETRIC FUSION USING SIMULATED ANNEALING”, International Journal of Computer Applications (0975 8887) 95(25), June 2014.DOI no.: 10.5120/16747-7044**
10. Gogoi, M., Bhattacharyya. D.K., **“AN EFFECTIVE FINGERPRINT VERIFICATION TECHNIQUE”, International Journal of Computer Science and Engineering, 1(1), May, 2010.**

**Name of the Faculty:** Dr. Th. Shanta Kumar

**(International Conference)**

1. Rajarshi Paul, **Th. Shanta Kumar**, ”A Machine Learning Approach to Biodiversity Time Series Analysis”, 2nd International Conference on information systems & management science (ISMS) 2019 , pp-58, 2018 <http://dx.doi.org/10.2139/ssrn.3520735>
2. **Th. S. Kumar**, “Customer Segmentation using Clustering Techniques”, in Proceedings of the International Conference on Population and Development, Bhutan, Oct. 2010, pp. 65-71.
3. **Th. S. Kumar** and A. J. Singh, “Genetic Algorithm and Clustering: A Comparative Case Study”, in Proceedings of the 2nd International Conference on Data Management (ICDM2009), Delhi, India, Feb. 2009. (ISBN : 023-063-760-4)
4. V. Devodas, B. Thomas and **Th. S. Kumar**, “A Simple Fuzzy Clustering Method for Handling Outlier Points”, in Proceedings of the International Conference in Mathematics and Computer Science (ICMCS2009), Chennai, India, Jan. 2009, Vol. 2, pp. 234. (ISBN : 978-81-8371-195-1)
5. G. Raju, B. Thomas, S. Tobgay and **Th. S. Kumar**, “Fuzzy Clustering Methods in Data Mining: A Comparative Case Study”, in Proceedings of the International Conference on Advanced Computer Theory & Engineering (ICACTE2008), Phuket, Thailand, Dec. 2008, pp 489-493. (ISBN : 978-0- 7695-3489-3) <https://ieeexplore.ieee.org/document/4737006>
6. G. Raju, B. Thomas, **Th. S. Kumar** and S. Thinley, “Integration of Fuzzy Logic in Data Mining to Handle Vagueness and Uncertainty”, in Proceedings of the 4th International Conference on Intelligence Computing (ICIC2008), Shanghai, China, Sep. 2008, pp. 880-887. (ISBN : 978-3-540- 85983-3) <https://link.springer.com/chapter/10.1007/978-3-540-85984-0106>
7. B. Thomas and **Th. Shanta Kumar**, “Role of GIS in Election Process : A Case of Bhutan”, Bhutan in the coming of 2008 and Beyond, Royal University of Bhutan, Thimphu, Jun, 2008

**(National Conference)**

1. **Th. S. Kumar,** “A Survey of Data Mining Techniques in Disaster Management”, National Seminar on Disaster Management: Issues and Challenges, PCPS Girls’ Polytechnic, Guwahati, Nov 2015, pp. 16-19
2. **Th. S. Kumar**, “Developmental Trend in Engineering Education in Recent Years in India and a Comparative Analysis of Available Facilities in North-East”, National Seminar on Prospects of Technical Education in North-East India : Present Trend of Development, Imphal, Manipur, May, 2013.
3. **Th. S. Kumar** & Devi Bhakta Suberi, “Gender-Based Performance of Sherubtse’s Faculties through Students’ Feedback”, National Seminar on Gender and Reproductive Health, Bhutan, Oct. 2011.
4. **Th. Shanta Kumar**, “Electronic Devices – Its Hazard to the Environment”, National Seminar – The Past, Present & Future of Bhutan’s Environment, Sherubtse College, June, 2007

**(Journals)**

1. **Th. Shanta Kumar**, Himanish S. Das, Upasana Choudhary, Prayakhi E. Dutta, Debarati Guha, and Yeasmin Laskar, ”Analysis and Prediction of Air Pollution in Assam Using ARIMA/SARIMA and Machine Learning”, Innovations in Sustainable Energy and Technology India 2020 , pp-317, 2020 <https://doi.org/10.1007/978-981-16-1119->
2. **Th. S. Kumar**, ”Enhancement of Image Classification through Data Augmentation using Machine Learning”, International Journal of Computer Sciences and Engineering, Vol.6, Issue.9, pp.220-224, 2018
3. **Th. S. Kumar**, ”Extracting Patterns from Students’ Feedback using Mixed Method”, International Journal of Computer Sciences and Engineering, Vol.4, Special Issue.7, pp.136-139, 2016
4. Anjana K. Mahanta, Amar J. Singh and **Th. Shanta Kumar**, “Customer Segmentation: Using a Comparative Case of Clustering Techniques”, CiiT International Journal of Data Mining and Knowledge Engineering, vol. 3(1), pp. 39-44 January 2011 <http://ciitresearch.org/dl/index.php/dmke/article/view/DMKE012011007>

**Faculty Name:** Adarsh Pradhan

**(International Conference)**

1. **Adarsh Pradhan**, Subhojit Saha, Abhinay Das, Santanu Barman, “Classification of Skin Lesion Using Image Processing and ResNet50”, In: International Conference On Big Data, Machine Learning and Applications (BigDML), National Institute Of Technology Silchar December, 2021.
2. **Adarsh Pradhan**, Arunav Buragohain, Uddipta Pathak, Sahil Ansari, and Manali Baruah “Implementation of DCGAN to Generate Gamocha Design Patterns”, in International Conference on Electronic Systems and Intelligent Computing (ESIC)-2020, In: Mallick P.K., Meher P., Majumder A., Das S.K. (eds) Electronic Systems and Intelligent Computing. Lecture Notes in Electrical Engineering, vol 686. Springer, Singapore. <https://doi.org/10.1007/978-981-15-7031-5_79>.
3. **Adarsh Pradhan**, Bhaskarjyoti Sarma, Rahul Kumar Nath and Bhiman Kr Dey, “Transfer Learning based Classification of Diabetic Retinopathy Stages”, in International Conference on Computational Performance Evaluation (ComPE), North-Eastern Hill University, Shillong, India, 2020, pp. 813-819, doi: 10.1109/ComPE49325.2020.9200092.
4. **Adarsh Pradhan**, Bhaskarjyoti Sarma and Bhiman Kr Dey, “Lung Cancer detection using 3D Convolutional Neural Networks”, in International Conference on Computational Performance Evaluation (ComPE), North-Eastern Hill University, Shillong, India, 2020, pp. 765-770, doi: 10.1109/ComPE49325.2020.9200176.9200092.

**(Journals)**

1. **Adarsh Pradhan**, Bhaskarjyoti Sarma, Rahul Kumar Nath, Ajay Das and Anirudha Chakraborty, “Diabetic Retinopathy Detection on Retinal Fundus Images Using Convolutional Neural Network”, In: Bhattacharjee A., Borgohain S., Soni B., Verma G., Gao XZ. (eds) Machine Learning, Image Processing, Network Security and Data Sciences. MIND 2020. Communications in Computer and Information Science, vol 1240. Springer, Singapore. <https://doi.org/10.1007/978-981-15-6315-7_21>
2. Eriq-Ur Rahman, Rituparna Sarma, Rajesh Sinha, Priyankar Sinha and **Adarsh Pradhan**, “A Survey on Twitter Sentiment Analysis”,International Journal of Computer Sciences and Engineering (IJCSE), Volume-6, Issue-11, ISSN: 2347-2693, Nov 2018.
3. Bidit Hazarika, Dipankar Das, Dibyajyoti Changkakoti, Abhinov Deka and **Adarsh Pradhan**, “Hand Gesture Animation Model for Local Hand Motion”, International Journal of Computer Sciences and Engineering (IJCSE), Volume-6, Issue-5, ISSN: 2347-2693, May 2018.
4. **Adarsh Pradhan**, Nabanita Paul, Kakali Das, Rupam Jyoti Bordoloi and Dikhya Baruah, “Survey On Speech Recognition Using Hidden MARKOV Model”, International Journal of Computer Sciences and Engineering (IJCSE), Volume-4, Special Issue-7, ISSN: 2347-2693, Dec 2016.
5. Antara Chowdhury and **Adarsh Pradhan**, “Isolated Assamese words spoken by Male and Female speakers”, International Journal of Computer Sciences and Engineering (IJCSE), Volume-4, Special Issue-7, ISSN: 2347-2693, Dec 2016.
6. **Adarsh Pradhan** and Antara Chowdhury, “A Survey on Isolated Assamese words spoken by Male and Female speakers”, International Journal of Advanced Research in Computer and Communication Engineering, (IJARCCE), Vol. 5, Issue 5, ISSN (Online) 2278-1021, ISSN (Print) 2319 5940, May 2016.
7. **Adarsh Pradhan** and Jyoti Rekha Saikia, “Identification of Isolated Upper and Lower Assamese words: A Survey”, International Journal of Advanced Research in Computer and Communication Engineering, (IJARCCE), Vol. 5, Issue 5, ISSN (Online) 2278-1021, ISSN (Print) 2319 5940, May 2016.
8. Nipjyoti Sarma, Arindam Saha and **Adarsh Pradhan** “Clustering Mixed Data Set by Fuzzy Set Partitioning”, International Journal of Computer Applications (IJCA), Volume 144 – No.6, ISSN 0975 – 8887, June 2016.
9. Nipjyoti Sarma, **Adarsh Pradhan** and Utpal Barman, “Fuzzy Partitioning Based Clustering Approach”, International Journal of Advanced Research in Computer and Communication Engineering, (IJARCCE), Vol. 5, Issue 5, ISSN (Online) 2278-1021, ISSN (Print) 2319 5940, May 2016.
10. **Adarsh Pradhan** and Neelam Agarwalla, “Deep Learning using Restricted Boltzmann machines”, International Journal On Advanced Computer Theory And Engineering (IJACTE), ISSN (Print): 2319-2526, Volume -4, Issue -3, March 2015.

**Name of the Faculty:** Manjula Kalita

**Publications:**(International Conference)

1. **M. Kalita**, D. K. Bhattacharyya and M. Dutta, "Privacy Preserving Clustering-A Hybrid Approach," 2008 16th International Conference on Advanced Computing and Communications, 2008, pp. 123-130, doi: 10.1109/ADCOM.2008.4760438.

**(National Conference)**

1. **M. Kalita**, D. K. Bhattacharyya and M. Dutta, " Privacy Preserving Data Mining: Heuristic Based Approach, Techniques, Research Issues and Challenges”, NCTMI 2011, Tezpur University

**(Journals)**

1. **M. Kalita**, L.B. Mahanta, A.K. Das. A review of automated digital clinical system of breast cancer detection using fine needle aspiration cytology images. Annals of Oncology Research and Therapy. Volume 1, Issue 1, January-June 2021. https://DOI: 10.4103/aort.aort\_6\_21
2. **M. Kalita**, S. Dutta , A. Yesmin, “A Survey on Man in the Middle Attack: Classification, Defense Mechanisms and Challenges”, International Journal of Computer Sciences and Engineering, Vol.04, Issue.07, pp.62-66, 2016.

**Name of the Faculty:** Srabani Medhi

**Publications:** **(International Conference)**

1. **Medhi, S**., & Gogoi, M. (2021, December). Visualization and Analysis of COVID-19 Impact on PM2. 5 Concentration in Guwahati city. In *2021 International Conference on Computational Performance Evaluation (ComPE)* (pp. 012-016). IEEE.

**(Journals)**

1. **Shrabani Medhi**, Pinky Saikia Dutta,”Improved Authentication System for Android Smartphone,” International journal of advanced Research in Computer and communication Engineering (IJARCCE) Vol. 5, ISSUE 5, May 2016.
2. Luna Ojah, **Shrabani Medhi**, Amarjyoti Pathak – “SMS Monitoring System For Detecting Premium SMS Malware In Smart Phone”, IJACST, Volume-5,No-5,May 2016, ISSN 2320 – 2602.
3. **Medhi, S.,** Ahmed, C., & Gayan, R. (2016). A study on feature extraction techniques in image processing. *International Journal of Computer Sciences and Engineering*, *4*(7), 89-93.

**Name of the Faculty:** Amarjyoti Pathak

**Publications: (International Conference)**

**(National Conference)**

1. **Amarjyoti Pathak**, “ A comparative study on Key exchange Authentication Protocols” in the National Seminar cum conference on Recent Trends & Techniques in Computer Sciences in Bodoland University held in 25th – 26th March 2013.

**(Journals)**

1. Daisy Das, **Amarjyoti Pathak,** “A Novel mutual Authentication Algorithm using visual cryptography with novel visual cryptographic schemes”-, IRJET, June 2017, ISSN-2395- 0056.
2. Tulip Dutta, **Amarjyoti Pathak**, “Secure Data Sharing in Cloud Storage Using Key Aggregation Cryptography” , IJCSE, volume 4, Special Issue – 7, Dec-2016. ISSN: 2347- 2693
3. **Amarjyoti Pathak**, Utpal Barman, Sanjay Keot, Panu Boro – “Authentication Mechanism using Encrypted One time Password (EOTP)” , IJCSE, volume 4, Special Issue – 7, Dec2016. ISSN: 2347-2693.
4. Luna Ojah, Shrabani Medhi, **Amarjyoti Pathak**, “SMS Monitoring System For Detecting Premium SMS Malware In Smart Phone”, IJACST, Volume-5,No-5,May 2016, ISSN 2320 – 2602.

**Name of the Faculty: Arindom Saha**

**(International Conference)**

**(National Conference)**

**(Journals)**

**Name of the Faculty:** Pinky Saikia Dutta

**Publication: (International Conference)**

**(National Conference)**

**(Journals)**

1. **Pinky Saikia Dutta**, Meghasmita Das, Sumedha Biswas, Mriganka Bora, Sankar Swami Saikia,”Fake News Prediction: A Survey”, International Journal of Scientific Engineering and Science Volume 3, Issue 3, pp. 1-3, 2019. ISSN (Online): 2456-7361
2. **Pinky Saikia Dutta**, Sunayana Dutta, Tridisha Das, Sweety Buragohain, SusmitaSarma.”A survey on Smart Health Care Using Data Mining” International Journal of Computer Science and Engineering( IJCSE) Vol 4,ISSUE 7,Dec 2016, ISSN: 2347-2693
3. **Pinky Saikia Dutta**, Avishek Saha, Amarendra Sharma, Abhishek Sarmah, Jugal Kishor Talukdar “Customer Opinion from various zE-commerce site using Data Mining Technique: A survey “ International Journal of Computer Science and Engineering( IJCSE) Vol 4,ISSUE 7,Dec 2016.
4. Shrabani Medhi, **Pinky Saikia Dutta**,”Improved Authentication System for Android Smartphone,” International journal of advanced Research in Computer and communication Engineering (IJARCCE) Vol. 5, ISSUE 5, May 2016.
5. Meenakshi Das, **Pinky Saikia Dutta**, ”Data Mining Technique to Understand Students learning experience”, International journal of advanced Research in Computer and communication Engineering( IJARCCE) Vol. 5, ISSUE 5, May 2016
6. **Pinky Saikia Dutta**, Hitesh Tahbildar “PREDICTION OF RAINFALL USING DATA MINING TECHNIQUE OVER ASSAM”, Indian Journal of Computer Science and Engineering (IJCSE) ISSN:0976-5166. VOL.5 Apr-May 2014.
7. **Pinky Saikia Dutta**, Sauvik Chakraborty,” Image based Steganography in Cryptography implementing different Encryption-Decryption Algorithm”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN : 2456- 3307
8. **Pinky Saikia Dutta**, Sauvik Chakraborty,” Image based Steganography in Cryptography implementing different Encryption-Decryption Algorithm”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology,ISSN : 2456- 3307
9. **Pinky Saikia Dutta**,”COMPARATIVE STUDY OF ACCURACY IN PREDICTION OF RAINFALL USING TRADITIONAL METHOD AND NEURAL NETWORK TECHNIQUE OVER ASSAM”, International Journal of Advanced Engineering Technology and Innovative Science (IJAETIS), Volume 4, Issue 1, Page No: 1-6
10. **Pinky Saikia Dutta**, Sunayana Dutta, Tridisha Das, Sweety Buragohain, Susmita Sarma, ”A Survey on Smart Health Care Using Data Mining”. International Journal of computer Science and Engineering. Survey Paper Volume-4, Special Issue-7, Dec 2016 ISSN: 2347-2693

**Name of the Faculty:** Ritushree Dutta

**Publications:** **(International Conference)**

1. Novel Approach to Gait Angle Measurement using Tri-Axial MEMS Accelerometer.

**(National Conference)**

**(Journals)**

1. Development of algorithm for different programmable modes for a prototype of orthotic ambulatory device for gait rehabilitation.
2. Implementation of Wireless MEMS sensor network for detection of gait events.

**Name of the Faculty:** Mala Ahmed

**Publications: (International Conference)**

**(National Conference)**

**(Journals)**

1. **Mala Ahmed**, Rohit Agarwal, Ashish Kumar Jha: Driver Alertness System: A Survey accepted in International Journal for Research in Engineering Application & Management (IJREAM), ISSN: 25454-9150, Vol-05, Issue-06, Sep 2019
2. **Mala Ahmed**, Dr. Minakshi Gogoi: An Effective Image Quality Estimation Method for Color Image accepted in (IJCM), Volume 6, Issue 8, August 2017, ISSN 2347-8527
3. Dr. Minakshi Gogoi, **Mala Ahmed**, “Image Quality Parameter Detection: A Study”` accepted in International Journal of Computer Sciences and Engineering (IJCSE), Special issue-07, Volume-04, December edition, 2016(ISSN: 2347-2693)

**Name of the Faculty:** Ilina Sinha

**Publications: (International Conference)**

**(National Conference)**

**(Journals)**

**Name of the Faculty:** Dr. Monisha Devi

**Publications: (International Conference)**

1. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Spectrum Auction Mechanism based onConcurrent Bidding for Channel Allocation in Ad Hoc CRNs”, 18th IEEE INDICON, 2021.
2. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka and Prakash Chauhan, ‘’Sequential BiddingAuction Mechanism for Spectrum Sharing in Cognitive Radio Networks”, 11th IEEE InternationalConference on Advanced Networks and Telecommunication Systems (ANTS), 2017.
3. **Monisha Devi**, Nityananda Sarma and Sanjib K. Deka, “Allocation and Access Mechanisms forSpectrum Sharing in CRNs- A Brief Review”, International Conference on Accessibility to DigitalWorld (ICADW), 2016.
4. **Monisha Devi**, Nityananda Sarma and Sanjib K. Deka “Dynamic Virtual Backbone based Routingin Cognitive Radio Networks”, 9 thIEEE International Conference on Advanced Networks anTelecommunication Systems (ANTS), 2015.

**(National Conference)**

**(Journals)**

1. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, "Single-Sided Truthful Auction Mechanismfor Heterogeneous Channel Allocation in Cognitive Radio Networks", Wireless Networks (Springer), May 2023.
2. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “A Single-Channel Single-Winner AuctionModel for Homogeneous Channel Allocation in CRNs”, Physical Communication, Elsevier, 55,2022.
3. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “A Double Auction Framework for MultiChannel Multi-Winner Heterogeneous Spectrum Allocation in Cognitive Radio Networks”, IEEEAccess, 9, 72239-72258, 2021.
4. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “A Centralized Model Enabling Channel Reusefor Spectrum Allocation in Cognitive Radio Networks”, Cybernetics and Information Technology,21(2), 183-200, 2021.
5. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Multi-Winner Spectrum Allocation inCognitive Radio Networks: A Single-Sided Auction Theoretic Modelling Approach with SequentialBidding”, Electronics, 10(5), 602, 2021.
6. **Monisha Devi**, Nityananda Sarma, Sanjib K. Deka, “Deployment of Auction Theoretic Models forSpectrum Allocation in Cognitive Radio Networks”, Journal of Computer Science, 16(5), 632- 641,2020.
7. **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.

**Name of the Faculty:** Dipjyoti Deka

**Publications: (International Conference)**

1. **Dipjyoti Deka**, Sanjib Kumar Deka, Nityananda Sarma "Capacity Constraint Distributed Data Dissemination Protocol for Ad-hoc Cognitive Radio Networks", ICT4SD-2015 (International Conference on ICT for Sustainable Development), Ahmadabad, India, Springer AISC Conference Proceedings, ISBN978-981-10-0127-7.
2. **Dipjyoti Deka**, Nityananda Sarma, Nithin Joesph Panicker "Malware Detection Vectors and Analysis Techniques: A Brief Survey", ICADW 2016 (1st International Conference on Accessibility to Digital World), AEC, Guwahati, India

**(National Conference)**

1. Hrituraj Chakraborty, Paramita Bhattacharjee, **Dipjyoti Deka** " Facesec An intelligent model to detect face in real time ", NATIONAL CONFERENCE ON DATA PRIVACY AND CYBER SECURITY LAWS IN INDIA

(Journals)

1. **Dipjyoti Deka**, Rituparna Seal, Shubham Banik” Unmasking Fraudulent Job Ads: A Critical Review of Machine Learning Techniques for Detecting Fake Jobs”, International Journal on Emerging Research Areas,2023
2. Monisha Devi, **Dipjyoti Deka**, "A Survey on Routing Protocols for Cognitive Radio Network", in International Journal of Engineering Research & Technology, Vol. 4 - Issue 04 (April - 2015), e-ISSN: 2278-0181, DOI:10.17577/IJERTV4IS041166.

**Name of the Faculty:** Gitanjali Devi

**Publications: (International Conference)**

**(National Conference)**

1. **Gitanjali Devi**, Minakshi Gogoi, “Feature Extraction to Detect Clouds from Satellite Image using Association Rule Mining”, National Conference on Current Trends in Engineering Science, 21 March 2017, Jalgaon, Maharashtra.

**(Journals)**

1. Dr. Minakshi Gogoi, **Gitanjali Devi**, "Cloud Image Analysis for Rainfall Prediction: A Survey", Advanced Research in Electrical and Electronic Engineering, ISSN: 2349-5804: Volumne 2, Issue 13 October- December, 2015.

**Name of the Faculty:** Dharitri Sarkar

**Publications: (International Conference)**

1. **Dharitri Sarkar**, Pubalee Kashyap Bora and Nissi Paul, Currency Recognition System using Image Processing: A Survey, 5 th International Conference on “Computing for Sustainable Global Development”, 14th -16th March, 2018
2. **Dharitri Sarkar** and Arup Baruah, A Survey Paper on Sentiment Analysis, Regional International Conference on Natural Language Processing (Reg-ICON) 2017, 3-4 Nov. 2017, IIIT Manipur, India.

**(National Conference)**

**(Journals)**