



**2nd International Conference on  
Intelligent Computing Systems and Applications (ICICSA-2023)  
22-23, September 2023**



**Organized by:  
Department of Computer Science and Engineering  
National Institute of Technology Silchar**

**Tentative Program Schedule**

**22nd September 2023 (Day 1)**

Time	Activity		
9:30 - 10:30	Inauguration		
10:30 - 10:45	High Tea		
10:45 - 11:45	Key note Talk	<b>DR. ANAND NAYYAR: (meet.google.com/cxi-weeb-mdg)</b>	
11:45 - 12:45	Key note Talk	<b>PROF. NILOY GANGULY: (meet.google.com/cxi-weeb-mdg)</b>	
12:45 - 14:00	Lunch Break		
14:00 - 16:00	Paper Presentation	<b>Session-I (meet.google.com/cxi-weeb-mdg)</b>	<b>Session-II (meet.google.com/sms-bezp-jeq)</b>
			<b>Session-III (meet.google.com/rjz-nxhu-ikf)</b>
16:00 - 17:00	Key note Talk	<b>PROF. SIVAJI BANDYOPADHYAY: (meet.google.com/cxi-weeb-mdg)</b>	

**23rd September 2023 (Day 2)**

Time	Activity		
9:00 - 10:00	Key note Talk	<b>DR. PRATYAY KUILA: (meet.google.com/cxi-weeb-mdg)</b>	
10:00 - 10:20	Tea Break		
10:20 - 12:00	Paper Presentation	<b>Session-IV (meet.google.com/cxi-weeb-mdg)</b>	<b>Session-V (meet.google.com/sms-bezp-jeq)</b>
			<b>Session-VI (meet.google.com/rjz-nxhu-ikf)</b>
12:00 - 13:00	Key note Talk	<b>PROF. SUBARNA SHAKYA: (meet.google.com/cxi-weeb-mdg)</b>	
13:00 - 14:00	Lunch Break		
14:00 - 15:00	Key note Talk	<b>PROF. R. BALASUBRAMANIAN : (meet.google.com/rjz-nxhu-ikf)</b>	
15:00 - 16:40	Paper Presentation	<b>Session-VII (meet.google.com/cxi-weeb-mdg)</b>	<b>Session-VIII (meet.google.com/sms-bezp-jeq)</b>
			<b>Session-IX (meet.google.com/rjz-nxhu-ikf)</b>
16:40 - 17:00	Valedictory		

**Date and Time: 22nd September, 14:00 - 16:00 IST****Session - I**

<b>Session Chairs:</b>	Dr. Suganya Devi K, Dr Deepak Gupta, MNNIT Allahabad, India and Dr. Dalton Meitei Thounaojam
<b>Meeting Link:</b>	(meet.google.com/cxi-weeb-mdg)
<b>Paper id:</b>	<b>Title of the Paper</b>
43	Design of LLC Resonant Converter for EV Charging using Neural Network-Based PI Controller
101	Prognosticating Covid-19 Pneumonia vs. Common Pneumonia for Pediatrics using Chest Radiographic Images
17	Disease Prediction Model using Deep Transfer Learning
93	Analysis of Techniques and Methods for Health Informatics: A Quantum Leap in HealthCare
112	Hybrid Deep Feature Optimization Methodology for Plant Leaf Classification

**Date and Time: 22nd September, 14:00 - 16:00 IST****Session - II**

<b>Session Chairs:</b>	Dr. Anupam Biswas, Dr. Parikshit Saikia and Dr. Ujwala Baruah
<b>Meeting Link:</b>	(meet.google.com/sms-bezp-jeq)
<b>Paper id:</b>	<b>Title of the Paper</b>
22	Optimized FOREX Rate Prediction using Hybrid Machine Learning Algorithm
151	A Study on Network Anomaly Detection using Stacking based Machine Learning Algorithms for ASNM Datasets
111	Evaluation of Various Machine Learning Algorithms for Seed Prediction Based on the Soil Nutrient Quantification
10	Sleep Apnea Classification using KNN
155	Modeling and early diagnosis of Alzheimer's disease using recurrent neural network

**Date and Time: 22nd September, 14:00 - 16:00 IST****Session - III**

<b>Session Chairs:</b>	Dr. Shyamosree Pal, Mr. Prabhakar Sharma Neog and Dr. Malaya Dutta Borah
<b>Meeting Link:</b>	(meet.google.com/rjz-nxhu-ikf)
<b>Paper id:</b>	<b>Title of the Paper</b>
142	An energy-conscious and delay aware path allocation for emergency node in WBAN
145	Severity levels Categorization for detecting diabetic retinopathy using YOLOv7
92	Development and Optimization of Automotive Testing using Machine Vision
86	Requirement driven Developer Recommendation Framework based on Github Developer Social Network
137	Superpixel Fused Pixel context Network for precise surface water mapping using multispectral satellite images

**Date and Time: 23rd September, 10:20 - 12:00 IST**

**Session - IV**

<b>Session Chairs:</b>	Dr. Thoudam Doren, Dr. Saroj Kumar Biswas and Dr. Anish Kumar Saha
<b>Meeting Link:</b>	(meet.google.com/cxi-weeb-mdg)
<b>Paper id:</b>	<b>Title of the Paper</b>
96	Performance prediction of 60GHz remote optical millimetre wave generation by frequency 48 tupling
176	Handwritten Indic script recognition using Deep Neural Network
59	An Ensemble Technique for Predicting the Human Heart Disease
60	Enhancing Cyber Security Metrics Evaluation through the Application of Fuzzy AHP Methodology
58	DEAN: Improving the efficiency of disease network using selective ensemble network aggregation model

**Date and Time: 23rd September, 10:20 - 12:00 IST**

**Session - V**

<b>Session Chairs:</b>	Dr. Arup Bhattacharjee, Dr. Biswajit Purkayastha, Dr. Pinki Roy and Dr. Ramanujam E
<b>Meeting Link:</b>	(meet.google.com/sms-bezp-jeq)
<b>Paper id:</b>	<b>Title of the Paper</b>
170	Local Mean Directional Intensity Pattern: An Efficient Descriptor for Hand Gesture Recognition Using SVM Classification
63	Personalized Recommender System using Topic Modelling Approach
171	Paddy Crop Disease Prediction - A Detailed Review on Image Processing Techniques
149	Comparative Analysis of Optimization Algorithms for Feature Selection in Heart Disease Classification

**Date and Time: 23rd September, 10:20 - 12:00 IST**

**Session - VI**

<b>Session Chairs:</b>	Dr. Ripon Patgiri, Mr. Umakanta Majhi, Mr Biswanath Dey and Dr. Badal Soni
<b>Meeting Link:</b>	(meet.google.com/rjz-nxhu-ikf)
<b>Paper id:</b>	<b>Title of the Paper</b>
78	Student Behavior Analysis in Classroom using Facial Emotion Recognitions and Graph Visualizations
56	Optimized Ensemble Learning Framework for Prioritizing Biomolecular Markers in Yield Prediction Efficiency Enhancement
94	Model-based Learning of Information Diffusion in Social Networks
75	Detection of Brain Tumour using Hybrid Features and Random Forest

**Date and Time: 23rd September, 15:00 - 16:40 IST**

**Session - VII**

<b>Session Chairs:</b>	Dr. Pantha Kanti Nath, Dr. Samir Kumar Borgohain and Dr. Laiphrakpam Dolendro Singh
<b>Meeting Link:</b>	( <a href="https://meet.google.com/cxi-weeb-mdg">meet.google.com/cxi-weeb-mdg</a> )
<b>Paper id:</b>	<b>Title of the Paper</b>
99	VASEC: Visual Attention-Driven Key Shot Extraction and Video Enhancement with Parallely Decoded Dense Captions
97	Highly secure LSB based Image Steganography with four-factor security
120	Automatic Certificate Generation & Security Implementation Using LSB and Hybrid Watermarking Techniques
23	Yarn Quality Assessment and Monitoring Using ML in Textile Industry
35	Tamper Proof Reconfigurable Speech Encryption Engine

**Date and Time: 23rd September, 15:00 - 16:40 IST**

**Session - VIII**

<b>Session Chairs:</b>	Dr. Nareshbabu M, Dr. Chuku Chunka and Dr. Partha Pakray
<b>Meeting Link:</b>	( <a href="https://meet.google.com/sms-bezp-jeq">meet.google.com/sms-bezp-jeq</a> )
<b>Paper id:</b>	<b>Title of the Paper</b>
175	An Efficient AI Model for Classifier Tweets during Disaster using Recurrent Neural Networks (RNN)
107	Recognition of logo of pirated content using deep learning-based regression classification algorithm
138	Identifying and Optimizing the Observation Strategy to Detect NEOs (Near Earth Objects) Using Python
74	Multi-frame Depth Estimation for Autonomous Driving using Motion Masking and Self-supervised Learning
71	A Secure Fingerprint Transmission Protocol for Insecure Communication Channels

**Date and Time: 23rd September, 15:00 - 16:40 IST**

**Session - IX**

<b>Session Chairs:</b>	Dr. Nareshbabu M, Dr. Chuku Chunka and Dr. Partha Pakray
<b>Meeting Link:</b>	( <a href="https://meet.google.com/rjz-nxhu-ikf">meet.google.com/rjz-nxhu-ikf</a> )
<b>Paper id:</b>	<b>Title of the Paper</b>
154	A Survey on Occupancy based Pattern Mining
76	SPECDUINO – A Secondary Sensory Vision
174	A hybrid CNN-LSTM algorithm for heart disease prediction.
117	Performance Investigation of Principal Component Analysis for Diabetic Detection using SVM with Kernel Functions