



1st International Conference on Intelligent Computing
Systems and Applications (ICICSA 2022)

23-24, September 2022

Program Schedule (Tentative)

23 rd September 2022					
Time	Activity				
9.30 – 10.30	Inauguration	Venue: Guest House Auditorium, NIT Silchar			
10.30 – 10.45	High Tea				
11.00 – 12.00	Keynote Talk	<i>Brain Computer Interface: Applications and Challenges</i> by Dr. Damodar Reddy Edla Google Meet: meet.google.com/bsc-suzp-pky			
12.15 – 13.00	Keynote Talk	Title and presented by Dr. Rajeswari Sridhar Google Meet: meet.google.com/bsc-suzp-pky			
13.15 – 14.15	Lunch Break				
14.15 – 14.45	Invited Talk	<i>Internet of Medical Things and Artificial Intelligence Things</i> by Dr. Anand Nayyar Google Meet: meet.google.com/bsc-suzp-pky			
14.45 – 15.30	Invited Talk	By Shri. Subramanian Neelakantan Google Meet: meet.google.com/bsc-suzp-pky			
15.30 – 17.30	Paper Presentations	Session-I	Session-II	Session-III	Session-IV

24 th September 2022					
Time	Activity				
9.30 – 12.00	Paper Presentations	Session-V	Session-VI	Session-VII	
12.00 – 12.45	Invited Talk	By Shri. Aditya Kumar Sinha Google Meet: meet.google.com/bsc-suzp-pky			
12.45 – 14.00	Lunch Break				
14.00 – 15.00	Keynote Talk	By Prof. Sivaji Bandyopadhyay Google Meet: meet.google.com/bsc-suzp-pky			
15.00 – 15.15	Tea Break				
15.15 – 15.45	Invited Talk	By Google Meet:			
15.45 – 16.30	Invited Talk	By Google Meet:			
16.30 – 17.45	Keynote Talk	By Prof. Kaushik Dutta Google Meet: meet.google.com/bsc-suzp-pky			
17.45 onwards	Valedictory	Virtual Class Room, CC 06, Department of CSE, NIT Silchar			
	Grand Dinner				

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Session I		23rd September 2022
Co-ordinator : Dr. Badal Soni and Dr. Suganya Devi		
Session Chairs : Dr. Ranjay Hazra, Dr. Badal Soni, and Dr. Suganya Devi		
Venue : Virtual Class Room (CC-03)		
Google meet : https://meet.google.com/dat-uvbi-ojb		
28	Darknet classification using artificial intelligence on apache spark	
32	Using stacking ensemble method for rental bike prediction	
33	Efficacy of recurrent neural network in rainfall forecasting: A case study of Shillong weather data	
45	A Review on FPGA-based CNN Accelerators	
57	Automatic Cloud detection from Satellite images using U-Net based Convolutional Neural Network	
83	A Fuzzy FUCOM-TOPSIS based optimal framework towards Cloud Service Selection	
39	Analysis of Apriori All Sequence Mining Algorithm using Hash and TRIE with Database Scan Reduction	
131	Investigation of handwritten cancer notes classification using transformer-based deep neural network pipeline	

Session II		23rd September 2022
Co-ordinator : Dr. Pinki Roy, Dr. Anupam Biswas and Dr. Anish Kumar Saha		
Session Chairs : Dr. Durgesh Singh, Dr. Debanjan Sadhya, and Dr. Anupam Biswas		
Google meet: https://meet.google.com/czc-rtif-qcb		
15	Machine Learning Expert System for Breast Cancer Detection	
29	Adaptive rank-based switching vector median filter for removing impulse noise from color medical image	
73	A Study on Syllabification for Preparation of Pronunciation dictionary in Manipuri Speech Processing	
52	An automated waste classification system using deep learning and image processing techniques	
58	Identification of Human Skin Cancers using Wavelet Decomposition Technique	
81	DFE-AVD: Deep Feature Ensemble for Automatic Vehicle Detection	
103	Semantic Segmentation of Underwater Images with CNN based Adaptive Thresholding	
108	Curved Shaped Defected Ground Structure: A way to achieve high Polarization Purity, Wide Bandwidth and Stable Gain	
111	Analysis of Hate Speech Recognition using SVM and Naive Bayes classifier	

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Session III		23rd September 2022
Co-ordinator : Dr. Arup Bhattacharjee, Dr. L. Dolendro Singh and Dr. Chukhu Chunka		
Session Chairs : Dr. L. Dolendro Singh, Dr. Chukhu Chunka, and Dr. Naresh Babu M.		
Venue : Seminar Room (CS-06)		
Google meet: https://meet.google.com/oqw-uyjb-nbk		
90	Miniaturization of Rectangular Microstrip Antenna using Shorting Posts for low frequency Wireless Underground Sensor Networks	
69	Genetic algorithm based energy efficient charging scheme for rechargeable wireless sensor networks	
98	Implementation of Next Hop Selection in Underwater Routing using TOPSIS	
99	Cluster Formation for Underwater Routing in UnetStack3	
59	Mitigation of distributed denial of service attack in a software defined network using flow entry based open flow methodology	
89	Enrichment of Impedance Bandwidth and Co-Polarization to Cross polarization Isolation of Circular Patch Antenna with Rectangular DGS Structure	
93	A Comprehensive Review on Result Extraction and Analysis in Underwater Network Simulators: A UnetStack Perspective	
112	Comparative Analysis of Machine Learning Algorithms for Phishing Website Detection	
133	Security Assessment of Deep Learning Model for Intrusion Detection System Against Adversarial Example	
63	A Review on Different Types of Attacks on RSA and ECC	

Session IV		23rd September 2022
Co-ordinator : Dr. Shyamapada Mukherjee and Dr. Ramanujam E		
Session Chairs : Dr. Anand Nayyar, Dr. Shyamapada Mukherjee, and Dr. Ramanujam E		
Google meet: https://meet.google.com/itc-qofw-iir		
11	An Intelligent Swarm based Intrusion Detection Framework for Securing IoT Environment	
46	Optimum-time Graph theoretic path planning with Multi-Sensor Fusion for AGV	
132	IOT Based Agricultural System for Standalone Solar Power Management	
140	An efficient probability attestation scheme for multipath routing and performance enhancement in IoT	
141	Resource management of Mobile Edge Computing (MEC) enabled 5G IoT Networks	
143	PID and Fuzzy PID Controller Design for Quadruple Tank System	

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Session V		24th September 2022
Co-ordinator : Dr. Badal Soni and Dr. Suganya Devi		
Session Chairs : Dr. Parikshit Saikia, Dr. Anish Kumar Saha and Dr. R. Murugan		
Google meet : https://meet.google.com/dat-uvbi-ojb		
85	A Novel Convolution Neural Network Architecture for Gender and Age Prediction	
91	An Analytical Study of Underlying Gender Bias in Word Embedding Techniques	
95	HybridHAR-Net: Recognizing human activities using a Hybrid Deep Learning-Based Model for mobile health applications	
118	Efficiency of Machine Learning Algorithms in Disease Prediction	
120	Specialized Lexicon Development for Dermatological Diseases	
121	Deep Learning based detection of Surface Anomalies	
123	EV's Lithium-ion Battery Heating Analysis	
138	An Expert System for Student Career Prediction (ESSCP) Using Machine Learning Classifiers	

Session VI-A		24th September 2022
Co-ordinator : Dr. Partha Pakray and Dr. T. Doren Singh		
Session Chairs : Dr. Sunita Sarkar, Dr. Partha Pakray and Dr. T. Doren Singh		
Venue : Virtual Class Room (CC-03)		
Google meet: https://meet.google.com/uyi-waup-etm		
100	TextSumEval-2022: Overview of the Textual Summary Evaluation Task	
96	Automatic Evaluation of Text Summaries	
101	Automatic Summarization Evaluation: A Pretrained Sentence Transformer Based Semantic Similarity Calculation Approach	
102	Performing Semantically Rich Summarization Evaluation Using Pretrained DistilRoBERTa Embeddings	
Session VI-B		Natural Language Processing
22	Comparative Analysis of Neural Machine Translation Models for Low resource English-Assamese Language Pair	
94	Recent Trends on Low-Resource Neural Machine Translation and Research Scope for English-Mizo Pair	
105	Hate speech detection in the Assamese language: a cross-lingual testing	
139	Coreference resolution in the assamese language : a comprehensive study	
148	Object Aware Visual Question Answering Model for Malayalam	

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