

ISACC – 2023

INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS, ADVANCED COMPUTING AND COMMUNICATION 03 – 04 February, 2023

Department of Computer Science and Engineering
Triguna Sen School of Technology
Assam University, Silchar, Assam, India

(Programme Schedule)

Day 1 03 February 2023

Items	Timing	Venue
Registration	09:00 AM – 09:45 AM	BCP Auditorium Hall
Inaugural Session	10:00 AM – 10:45 AM	BCP Auditorium Hall
High Tea	10:45 AM – 11:15 AM	BCP Auditorium Hall
Plenary Session 1.1	11:15 AM – 12:15 PM	BCP Auditorium Hall
Professor Sivaji Bandyopadhyay Professor, Department of Computer Science & Engineering Jadavpur University, Kolkata, West Bengal, India and Former Director, National Institute of Technology, Silchar, Assam, India		
Plenary Session 1.2	12:30 PM – 01:30 PM	BCP Auditorium Hall
Professor João Gama Laboratory of Artificial Intelligence and Decision Support, and Faculty of Economics, University of Porto, Porto, Portugal		
Lunch	01:30 PM – 02:30 PM	CSE, TSSOT
Technical Session 1.1	02:30 PM – 05:00 PM	Online

Track: Intelligent Systems I

Session Chair:

Dr. Sunita Sarkar Dept. of Computer Science and Engineering Assam University, Silchar, Assam, India	Dr. Sufal Das Dept. of Information Technology NEHU, Shillong, Meghalaya, India
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Coordinator:

Mr. Rohit Kumar Kasera , PhD Scholar Dept. of Computer Science and Engineering Assam University, Silchar, Assam, India

Sl#	Paper ID	Paper Title	Authors
1	22	A Hybrid Programming Course recommendation system using Fuzzy Logic and xDeepFM	<i>Subhasish Ghosh</i>

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2	30	Transcription of Indian Classical Music using Convolutional Recurrent Neural Network and CTC Loss	Yeshwant Singh , Yatin Gupta, Subham Patar, Anurag Saraswat, Anupam Biswas
3	44	Answer Selection Using Interactive Attention Mechanism	V. Venkataraman , S. Jaya Nirmala
4	54	Deep Learning-Based Transfer Learning for the Detection of Leukemia	Joydeb Sheet , Chanchal Ghosh, Biplab Kanti Das
5	58	Learning Techniques for Depression Detection: A Comparative Studies	Arnab Das, Mrinal Kanti DebBarma , Rabindra K. Barik
6	70	Image Super-Resolution Based on Machine Learning for Enhancing Quality Image	Oinam James
7	114	A Comparative Analysis on Diabetic Retinopathy using Deep Learning and Nature based Optimization Algorithms	Kanchan S. Gorde , Ajay A. Gurjar
8	133	Depressive and Non-depressive Tweets Classification using a Sequential Deep Learning Model	Anupam Agrawal, Sharmistha Dey, Gopal Chandra Jana

Technical Session 1.2

02:30 PM – 05:00 PM

Online

Track: Advanced Computing I

Session Chair:

Dr. Saroj Kr. Biswas

Dept. of Computer Science and Engineering
NIT, Silchar, Assam, India

Mr. Bhagaban Swain

Dept. of Computer Science and Engineering
Assam University, Silchar, Assam, India

Coordinator:

Mr. Pragyat Jyoti Baruah, PhD Scholar

Dept. of Computer Science and Engineering
Assam University, Silchar, Assam, India

Sl#	Paper ID	Paper Title	Authors
1	11	Single-hand Gesture Recognition of Manipuri Classical Dance of India based on Skeletonization Technique	Mampi Devi, Ananya Chakraborty, Alak Roy, Dipanjoy Majumder
2	20	Advancements in Cyber Security and Information Systems in Healthcare from 2004 to 2022: A Bibliometric Analysis	Sreerengan V R Nair , Saibal Kumar Saha
3	63	Automated Nuclei Analysis from Digital Histopathology	Bijoyeta Roy , Pratima Sarkar, Mousumi Gupta

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4	78	Comparative analysis of detecting overclaim permission from android apps	Raj Majethiya , Monika Shah
5	103	Power of kernel functions, its benefits, and limitations	Richa Indu , Sushil Chandra Dimri
6	108	Various Approaches to perceptual image hashing systems-A Survey	Moumita Roy , Dalton Meitei Thounaojam, Shyamosree Pal
7	115	Exploring Stationarity and Fractality in Stock Market Time-series	Debabrata Batabyal , Dwaipayan Bandopadhyay, Bikash Sadhukhan, Nabanita Das, Somenath Mukherjee
8	124	Estimation of Position of Lathe Tool Using Edge Detection Techniques	Shweta Kumari , Charu Pathak, Shruti Vashist, Prasant Kumar Mahapatra

Technical Session 1.3

02:30 PM – 05:00 PM

Online

Track: Intelligent Systems II

Session Chair:

Dr. Chayan Paul Amity Institute of Information Technology, Amity University Kolkata, West Bengal, India	Dr. Somnath Mukhapadhyay Dept. of Computer Science and Engineering Assam University, Silchar, Assam, India
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Coordinator:

Mr. Jahangir Alom , PhD Scholar Dept. of Computer Science and Engineering Assam University, Silchar, Assam, India
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Sl#	Paper ID	Paper Title	Authors
1	64	Performance Analysis of an ANN-based model for Breast Cancer Classification using Wisconsin Dataset	Utkarsh Prakash Srivastava , Vidushi Vaideh, Tawal Kumar Koirala, Palash Ghosal
2	68	Review of Various Machine Learning and Deep Learning Techniques for Audio Visual Automatic Speech Recognition	Arpita Choudhury , Pinki Roy, Sivaji Bandyopadhyay
3	74	Applying a machine learning model to forecast the risks to children's online privacy and security	Rumel M.S. Rahman Pir , Md. Forhad Rabbi, M. Jahirul Islam
4	93	Traffic Sign Recognition System using Ensemble based Deep Learning Models	Deep Dey , Sukanta Majumder, Anindya Halder

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5	96	Mitigating Cold Start Problem in Recommendation Systems via Transfer Learning Approach	<i>Manisha Jangid</i> , Rakesh Kumar
6	102	Fake news detection using social media data for Khasi language	<i>Sunita Warjri</i> , Partha Pakray, Saralin A. Lyngdoh, Arnab K. Maji
7	137	The Role of Deep Learning in Diagnosis and Grading of Diabetic Retinopathy: A Review	<i>Samarjit Minz</i> , Saarthak Seth, Sarvesh Tiwari, Rahul Katarya
8	138	An Efficient Consensus Algorithm for Blockchain-based Federated Learning	<i>Kausthav Pratim Kalita</i> , Debojit Boro, Dhruba Kumar Bhattacharyya

Day 2 04 February 2023

Items	Timing	Venue
Plenary Session 2.1	10:00 AM – 11:00 AM	Online
Professor Shikhar Kumar Sarma Department of Information Technology Gauhati University, Guwahati, Assam, India		
Tea Break	11:00 AM – 11:15 AM	BCP Auditorium Hall
Plenary Session 2.2	11:15 AM – 12:15 PM	BCP Auditorium Hall
Professor Al-Sakib Khan Pathan Department of Computer Science and Engineering United International University (UIU), Bangladesh		
Plenary Session 2.3	12:30 PM – 01:30 PM	BCP Auditorium Hall
Professor Amit Roy Chowdhury Department of Aerospace Engineering and Applied Mechanics IEST, Shibpur, West Bengal, India		
Lunch	01:30 PM – 02:30 PM	CSE, TSSOT
Plenary Session 2.4	02:30 PM – 03:30 PM	Online
Professor Marcin Paprzycki Systems Research Institute, Polish Academy of Sciences Warsaw, Poland		

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Department of Computer Science and Engineering
Triguna Sen School of Technology
Assam University, Silchar, Assam, India

Technical Session 2.1

03:30 PM – 06:00 PM

Online

Track: Intelligent Systems III

Session Chair:

Dr. Partha Pakray

Dept. of Computer Science and Engineering
NIT, Silchar, Assam, India

Dr. Mousum Handique

Dept. of Computer Science and Engineering
Assam University, Silchar, Assam, India

Coordinator:

Mr. Pragyat Jyoti Baruah, PhD Scholar

Dept. of Computer Science and Engineering
Assam University, Silchar, Assam, India

Sl#	Paper ID	Paper Title	Authors
1	14	Brain tumor classification using deep learning framework	<i>Anuksha Srivastava</i> , Ashish Khare, Arti Kushwaha
2	21	The COVID'19 Dashboard with Implementation of Face Mask Detection and Social Distancing Detection Algorithm	Meghna Manoj Nair, Gadiparthi Harika Sai, Pattabiraman V, <i>Harini Sriraman</i>
3	72	Hate Speech in Social Networks and Detection using Machine Learning Based Approaches	<i>Chayan Paul</i>
4	77	AsCul: Annotated Dataset and a Deep Learning based framework for Assamese Cultural Object Detection	<i>Manash Pratim Lahkar</i> , Abhijit Gogoi, Pankaj Choudhury
5	80	COVID-19 detection using lightweight CNN architecture on chest X-ray images	<i>Sanjan Mahjabin Farin</i> , Md. Sazzadul Islam Prottasha, S M Salim Reza
6	84	Java Based Software Robot for Automatic E-mail Extraction	<i>Raghuraj Singh</i> , Santosh Kumar Upadhyay, Neeraj Sagar
7	100	Cyberbullying Detection Using Deep Learning Techniques on Bangla Facebook Comments	Srabon Bhowmik Shanto, Mohammed Jahirul Islam, <i>Md. Abdus Samad</i> .
8	101	Pre-trained word embeddings in Deep Multi-label personality classification of YouTube transliterations	<i>Mohmad Azhar Teli</i> , Manzoor Ahmad Chachoo
9	139	Performance analysis of Sentiment Classification using Optimized Kernel Extreme Learning Machine	<i>D.N.S.B. Kavitha</i> , M. Venkata Subbarao

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Department of Computer Science and Engineering
Triguna Sen School of Technology
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Technical Session 2.2

03:30 PM – 06:00 PM

Online

Track: Advanced Computing II

Session Chair:

Dr. Prodipto Das Dept. of Computer Science Assam University, Silchar, Assam, India	Dr. Shirshendu Das Dept. of Computer Science and Engineering IIT, Hyderabad, India
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Coordinator:

Mr. Rohit Kumar Kasera , PhD Scholar Dept. of Computer Science and Engineering Assam University, Silchar, Assam, India

Sl#	Paper ID	Paper Title	Authors
1	12	AO2DS: A Method of Auxiliary Operational Decision-making Based on System Dynamics Simulation	Zhongyuan Ren, Xuejun Ren, Lingzhi Ren
2	19	Security Enhancement using Vectoring, Cryptography and Steganography	Mridul Mittal, Saurav Gupta, Pankaj Kumar Keserwani , Mahesh Chandra Govil
3	27	Surface Electromyography based Hand Gesture Signal Classification using 1D CNN	Krishnapriya S , Jaya Prakash Sahoo, Samit Ari
4	33	Modeling a Hybrid Stemmer for Kokborok	Pankaj Debbarma , Pusparwng Hrangkhaw, Swapan Debbarma
5	104	A Critical Study of Biometrics and Their Fusion	Mayank Shekhar , Ripon Patgiri, Amit Kumar Trivedi, Prasenjit Dhar
6	105	Beauty of Blockchain Technology in Healthcare Industry	Parthasarathi Pattnayak, Arpeeta Mohanty , Tulip Das, Sanghamitra Patnaik
7	106	Mathematical Morphology Adopted Automatic Detection of Ground Glass Opacities in Lung CT Images of COVID-19 Patients	Soma Chatterjee , Rohit Kamal Chatterjee, R. T. Goswami
8	118	Efficient Semantic Image Editing with Feature Shared Spatially Adaptive Normalization	Nishant Halagatti , Bhuvan M C, Abhishek N Jadhav, Sai Pradyumna Chermala, Padmashree Desai, Venkat Ramana Peddigari, Roopa Sheshadri

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Technical Session 2.3

03:30 PM – 06:00 PM

Online

Track: Communication I Session Chair:

Dr. Abhishek Majumder

Dept. of Computer Science and Engineering
Tripura University, Tripura, India

Mr. W. Niranjan Singh

Dept. of Computer Science and Engineering
Assam University, Silchar, Assam, India

Coordinator:

Mr. Vishal Gour, PhD Scholar

Dept. of Computer Science and Engineering
Assam University, Silchar, Assam, India

Sl#	Paper ID	Paper Title	Authors
1	18	An efficient charging scheduling scheme to enhance the wireless rechargeable sensor networks' lifespan	<i>Sk Md Abidar Rahaman, Md Azharuddin.</i>
2	49	Processing IoT Sensor Fire Dataset Using Machine Learning Techniques	<i>Sudip Suklabaidya, Indrani Das</i>
3	76	A review on recent techniques developed for energy conservation in Wireless Sensor Networks	Habila Basumatary, Rajib Chowdhuri, <i>Mrinal Kanti Deb Barma</i>
4	87	Survey on Methodological Model of IoT in Digital Forensic	<i>Ritocheta Roy, Dheeba J</i>
5	111	Enhanced Channel-Wise Homomorphic Encryption for Image Inference based on Pairwise Activation Functions	<i>Tanuja, Rakesh Kumar</i>
6	135	Jellyfish Search Algorithm based Optimal Routing Protocol for Energy Efficient Data Aggregation in Wireless Sensor Networks	<i>Sekar K, Suganya Devi K, J. Suganthi, Dheepa T</i>

Valedictory

06:00 PM – 06:30 PM

BCP Auditorium Hall

Cultural Program

06:30 PM – 07:30 PM

BCP Auditorium Hall

Dinner

07:30 PM Onwards

CSE, TSSOT



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**** Duration of each Technical Paper Presentation is 10 minutes.**

**** The Technical Sessions will be held through Online Meeting Platform ZOOM.**

**** Acronyms:**

**BCP Auditorium Hall – Bipin Chandra Pal Auditorium Hall, Assam University,
Silchar**

**CSE, TSSOT – Department of Computer Science & Engineering, Triguna Sen
School of Technology, Assam University, Silchar**
