

MAI 2021 Schedule

Day 1, Feb 11, 2021

0930 – 1030 Hr	Inauguration
1030 – 1130 Hr	<i>Talk by Chief Guest Mr. Joydeep Majumdar, Executive Director, Bharat Electronics Limited, Gazhiabad</i>
1130 – 1200 Hr	High Tea
1200 – 1300 Hr	<i>Mr. Abahy Gere, Chief Innovation Officer, Ministry of Education, Govt. of India (Invited Talk)</i>
1300 – 1500 Hr	Lunch
1500 -1600 Hr	<i>Mr. Harinarayanchari Mishra, Inspector General of Police, Indore (Invited Talk)</i>

Technical Session: Artificial Intelligence in Healthcare

1600 – 1645 Hr	Application of Internet of Things (IoT) in monitoring hospital equipment <i>Barath Kumar Babu and Bhoomadevi A</i>
	Diabetes Analysis Using Machine Learning Techniques <i>Lokesh Malviya, Sandip Mal, Praveen Lalwani and Jasroop Singh Chadha</i>
	Alzheimer's Disease Diagnosis using Structural MRI and Machine Learning Techniques <i>Samir Yadav and Sanjay Sutar</i>

Day 2, Feb 12, 2021

0930 – 1030 Hr	<i>Prof. George Giakos, USA (Invited Talk)</i>	
<u>Technical Session: Deep Learning: Theory and Applications</u>		<u>Technical Session: Image Processing and Computer Vision</u>
1045 – 1145 Hr	A Transfer Learning-based Multi-Cues Multi-Scale Spatial-Temporal Modelling for Effective Video-based Crowd Counting and Density Estimation using a Single-Column 2D-Atrous Net <i>Santosh Tripathy and Prof. Rajeev Srivastava</i>	1045 – 1145 Hr Walking motion simulation of human walk by solving inverse kinematics <i>Astha Verma, Vijay Bhaskar Semwal and Koushendra Kumar Singh</i>
	NVM Device based Deep Inference Architecture using Self-Gated Activation Functions (Swish) <i>Afroz Fatima and Abhijit Pethe</i>	Performance Analysis of Machine Learning Based Breast Cancer Detection Algorithms <i>Sanjay Kumar, Akshita Na, Shivangi</i>

			Thapliyal, Shiva Bhatt and Naina Negi
	Stock Market Predictions using FastRNN, CNN and BiLSTM Based Hybrid Model Konark Yadav, Milind Yadav and Sandeep Saini		A New Compact Color Feature for Distinguishing Computer Graphic Images from Photo Graphic Images Sasithradevi. A, S. Mohamed Mansoor Roomi and Nirmala Paramanandham
	Deep Convolutional Neural Network based Hard Exudates Detection Deepa R and Narayanan N K		Static Gesture Classification and Recognition using HOG feature parameters and KNN and SVM based Machine Learning Algorithms Sheena C V and Nk Narayanan
<u>Technical Session: Deep Learning: Theory and Applications</u>		<u>Technical Session: Image Processing and Computer Vision</u>	
1200 – 1300 Hr	Deep Learning-based Malicious Android Application Detection Vikas Malviya and Atul Gupta	1200 – 1300 Hr	Surya-namaskar pose identification and estimation using no code Computer Vision Ujjayanta Bhaumik, Siddharth Chatterjee and Koushendra Kumar Singh
	Classification of Land Cover and Land Use using Deep Learning Suraj Kumar, Suraj Shukla, Keshav Kumar Sharma, Koushendra Kumar Singh and Akber Sheikh Akbari		Improved performance guarantees for Orthogonal Matching Pursuit and application to dimensionality reduction Munnu Sonkar, Latika Tiwari and C.S. Sastry
	Hybrid Features-enabled Adaptive Butterfly Based Deep Learning Approach for Human Activity Recognition Anagha Deshpande and Krishna Warhade		Transparent Decision Support System for Breast Cancer to determine the risk factor Akhil Kumar Das, Dr. Saroj Kr. Biswas and Dr. Ardhendu Mandal
	Diabetes Prediction using Deep Learning Model Nishq Desai, Utkarsha Na, Krishna Kalpesh Patel, Avanish Sandilya and Kanchan Lata Kashyap		Histogram-based Image Enhancement and Analysis for Steel Surface and Defects Images Ranjeet Kumar, Anil Kumar Soni and Aradhana Soni
1300 – 1400 Hr		Lunch	
1400 – 1500 Hr		Prof. Akbar M Akbari, University of Leeds Bracket, UK (Invited Talk)	
<u>Technical Session: Deep Learning: Theory and Applications</u>		<u>Technical Session: Image Processing and Computer Vision</u>	
1515 - 1615 Hr	Object Detection Using YOLO Framework for Intelligent Traffic Monitoring Amitha I C and Narayanan N K	1515 - 1615 Hr	An Approach for Denoising of Contaminated Signal using Fractional Order Differentiator Koushendra Kumar Singh, Ujjayanta Bhaumik, Anand Sai and

			Kornala Arun
	A Convolutional Neural Network Model to Predict Air and Water Hazards Dhalia Sweetlin J, Akshayarathna A and Divya Darshini K		Density-Assessment for breast cancer diagnosis using deep learning on mammographic image: A brief study Shaila Chugh, Sachin Goyal, Sunil Joshi, Anjana Pandey and Mukesh Ajad
	Deep Learning in Quadratic Frequency Modulated Thermal Wave Imaging for Automatic Defect Detection Gopi Tilak V, Ghali V. S., Naik R. B, Vijaya Lakshmi A and Suresh B		Three Dimensional Fractional Operator for Benign Tumor Region Detection Saroj Kumar Chandra, Abhisek Shrivastava and Manish Kumar Bajpai
	Detection of Acute Lymphoblastic Leukemia by Utilizing Deep Learning methods Surya Sashank Gundepudi V, Charu Jain and Venkateswaran N		Non-destructive fusion method for image enhancement of eddy current sub-surface defect images Anil Kumar Soni, Ranjeet Kumar, Shrawan Kumar Patel and Aradhana Soni

Day 3, Feb 13, 2021

0930 – 1030 Hr		Prof. Prabhat Munshi, IIT Kanpur (Invited Talk)	
<u>Technical Session: Cryptography and Image Security</u>		<u>Technical Session: COVID-19: Theory and Practice</u>	
1045 – 1145 Hr	Supervised Machine Learning-Based DDOS Defense System for Software Defined Networks Gufraan Siddiqui and Sandeep Shukla	1045 – 1145 Hr	Mathematical Model with Social Distancing Parameter for Early Estimation of COVID-19 spread Avaneesh Singh, Saroj Kumar Chandra and Manish Kumar Bajpai
	Digital Watermarking Based Image Forensics Technique Sanjay Kumar and Binod Kumar Singh		Modeling and Predictions of COVID-19 Spread in India Saurav Karmakar, Dibyanshu Gautam and Purnendu Karmakar
	Feature Optimization of Digital Image Watermarking using Machine Learning Algorithms Manish Rai, Sachin Goyal and Mahesh Pawar		Automatic Diagnosis of Covid-19 using Chest X-ray Images through Deep Learning Models Siddharth Gupta, Palak Aggarwal, Sumeshwar Singh, Shiv Ashish Dhondiyal, Manisha Aeri and Avnish Panwar
	Secure Color Image Encryption Method using Chaos Rajiv Ranjan Suman, Bhaskar Mondal, Sunil Kumar Singh and Tarni Mandal		CORO-NET: CNN Model to Diagnose COVID-19 Disease using Chest X-ray Images Rachi Jain and Devendra Kumar

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<u>Technical Session: Cyber Security and Social Network Analysis</u>		<u>Technical Session: Augmented Intelligence: Theory and Applications</u>	
1200 – 1300 Hr	A new Adaptive Inertia Weight based Multi Objective Discrete Particle Swarm Optimization Algorithm for Community Detection Ashutosh Tripathi, Mohona Ghosh and Kusum Bharti	1200 – 1300 Hr	An IoT Enabled Smart Waste Segregation System Subham Divakar, Abhishek Bhattacharjee, Vikash Kumar Soni, Rojalina Priyadarshini, Rabindra Kumar Barik and Diptendu Sinha Roy
	Social Media Big Data Analytics: Security Vulnerabilities and Defenses Sonam Srivastava and Yogendra Narain Singh		Groundwater Modelling by Artificial Neural Networks of Parts of Yamuna River Basin Saad Moeeni, Naved Ahsan, Mohammad Sharif and Asif Iqbal
	An Efficient Algorithm for Preprocessing of Web Log Data Vipin Jain and Kanchan Lata Kashyap		Omni-Directional Zeroth Order Resonator (ZOR) Antenna for L-Band Applications Komal Roy, Rashmi Sinha, Chetan Barde, Sanjay Kumar and Prakash Ranjan
	Predicting Depression by Analyzing User Tweets Abhay Kumar and Kumar Abhishek		Study of Communication Pattern for Perfect Difference Network Sunil Tiwari, Rakesh Kumar and Manish Bharadwaj
1300 – 1400 Hr		Lunch	
1400 – 1500 Hr		Ms. Kamiya Khatter, Springer (Invited Talk)	
<u>Technical Session: Cyber Security and Social Network Analysis</u>		<u>Technical Session: Augmented Intelligence: Theory and Applications</u>	
1515 - 1615 Hr	Sentiment Analysis of Reviews Related to Novels Anant Saraswat, Abhay Kumar and Kumar Abhishek	1515 - 1615 Hr	Candidate Set based Method for Ear Localization and Validation Ayushi Rastogi, Ujjayanta Bhounik, Chhavi Choudhary, Akber Sheikh Akbari and Koushendra Kumar Singh
	A pluggable system to enable fractal compression as the primary content type for World Wide Web Bejoy Varghese and Krishnakumar S		Computer aided Malaria Detection via Deep Learning and Computer Vision Kartik Kumar, Gaurav Chandiramani and Kanchan Lata Kashyap
	Visualizing and Computing Natural Language Expressions: Through A Typed Lambda Calculus λ Harjit Singh		Modelling India road traffic using concepts of fluid flow and Reynolds number for anomaly detection Varun Kumar, Alankrita Kakati, Mousumi Das, Aarhisreshtha Mahanta, Puli Gangadhara, Chandrajit Choudhury and Fazal

			Talukdar
	Classification of Idioms and Literals using Support Vector Machine and Naïve Bayes Classifier Briskilal J and Subalalitha C N		Embedded Vision Based Intelligent Device for the Visually Impaired Mohamma Farukh Hashmi, Sasweth Rajanarayanan and Avinash Keskar
Day 4, Feb 14, 2021			
0930 – 1030 Hr		Prof. Phalguni Gupta, Galgotia University (Invited Talk)	
<u>Technical Session: Soft Computing</u>		<u>Technical Session: Brain Computer Interface</u>	
1045 – 1130 Hr	Multi-agent Based GA for Limited View Tomography Raghavendra Mishra and Manish Kumar Bajpai	1045 – 1130 Hr	Feature Extraction and Comparison of EEG Based Brain Connectivity Networks using Graph Metrics Mangesh Kose, Mithilesh Atulkar and Mitul Kumar Ahirwal
	Genetic Algorithm based Resident Load Scheduling for Electricity Cost Reduction Jeyaranjani J and Devaraj D		A Machine Learning Model for Automated Classification of Sleep Stages using Polysomnography Signals Santosh Satapathy, Hari Kishan Kondaveeti, D Loganathan and Sharathkumar S
	Stochastic gradient descent with selfish mining attack parameters on Dash Difficulty adjustment algorithm Jeyasheela Rakkini and Geetha K		Epileptic Seizure Prediction from Raw EEG Signal using Convolutional Neural Network Ranjan Jana and Imon Mukherjee
1130 - 1200		Valedictory	
High Tea			