

List of Papers Accepted for ORAL Presentation

No	Authors, Title
15	Abhijit Dasgupta, Ritankar Das, Losiana Nayak, Ashis Datta and Rajat De. Two-class in silico Categorization of Intermediate Epileptic EEG Data
22	Piotr Kulczycki. Methodically Unified Procedures for Outlier Detection, Clustering, and Classification
24	Kannan Karthik and Balaji Rao Katika. Identity Independent Face Anti-spoofing based on Random Scan Patterns
26	Kshetrimayum Shalu Devi, Jiten Chandra Dutta, Hiranya Ranjan Thakur and Gaurav Keshwani. Fabrication and physical characterization of different layers of CNT-BioFET for Creatinine Detection
29	Pournami P N and Maddaiah P N. Image Registration using Single Swarm PSO with Refined Search Space Exploration
31	Uday Kiran Challa, Pavankumar Yellamraju and Jignesh Bhatt. A multi-class deep All-CNN for detection of diabetic retinopathy using retinal fundus images
35	Vijaikumar M, Shirish Shevade and M Narasimha Murty. TagEmbedSVD: Leveraging Tag Embeddings for Cross-Domain Collaborative Filtering
38	Somsukla Maiti, Prashant Gidde, Sumeet Saurav, Sanjay Singh, Dhiraj Sangwan and Santanu Chaudhury. Real-Time Vehicle Detection in Aerial Images using Skip-connected Convolution Network with Region Proposal Networks
42	Daisy Das and Lipi B. Mahanta. On the study of Childhood medulloblastoma auto cell segmentation from histopathological tissue samples
56	Dr. Alka Subramanyam, Dr. Sonakshi Jyrwa, Juhi Bansinghani, Sarthak Dadhakar, Trena Dhingra, Umesh Ramchandani and Sharmila Sengupta. Dyscalculia Detection using Machine Learning
58	Namrata Pant and Sushmita Paul. Density-based clustering of functionally similar genes using biological knowledge
66	Debamita Kumar and Pradipta Maji. An Efficient Method for Automatic Recognition of Virus Particles in TEM Images
71	Vamshi Krishna Repala and Shiv Ram Dubey. Dual CNN Models for Unsupervised Monocular Depth Estimation
80	Sathisha Basavaraju, Smriti Bahuguna, Sibaji Gaj and Arijit Sur. Deep CNN for Single Image Super Resolution using Skip Connections
85	Aniruddha Mazumdar, Jaya Singh, Yosha Singh Tomar and Prabin Kumar Bora. Detection of Image Manipulations using Siamese Convolutional Neural Networks
91	Indu M T, Somasundaram K and Shunmuga Velayutham C. A Preliminary Investigation on a Graph Model of Differential Evolution Algorithm
95	Nilanjana Dutta Roy, Arindam Biswas, Manabendra Dutta Choudhury, Abhijit Mitra, Souvik Ghosh and Rajarshi Lahiri. Detection of Necrosis in Mice Liver Tissue using Deep Convolutional Neural Network
98	Arundhati Das, Kaushal Bhardwaj and Swarnajyoti Patra. Automatic attribute profiles for spectral-spatial classification of hyperspectral images
99	Preetam Srikar Dammu and Bapi Raju Surampudi. Temporal Dynamics of the Brain using Variational Bayes Hidden Markov Models: Application in Autism
102	Dipannita Podder and Jayanta Mukhopadhyay. Choice of Feature Descriptor and Similarity Measure in Image Retrieval: A Probabilistic Approach

104	Tushar Gadhiya, Sumanth Tangirala and Anil K. Roy. Stacked Autoencoder Based Feature Extraction and Superpixel Generation for Multifrequency PolSAR Image Classification
105	Kakuli Mishra, Srinka Basu and Ujjwal Maulik. DaNSe: A Dilated Causal Convolutional network based model for load forecasting
115	Himanshu Buckchash and Balasubramanian Raman. Sustained Self-Supervised Pretraining for Temporal Order Verification
117	Soumya Sara John, Deepak Mishra and Sheeba Rani J. Retraining conditions: How much to retrain a network after pruning?
119	Purvi Koringa and Suman K Mitra. Class Similarity based Orthogonal Neighborhood Preserving Projections for Image Recognition
122	Sharmistha Mondal, Nilanjana Karmakar and Arindam Biswas. Identification of Articulated Components in 3D Digital Objects using Curve Skeleton
127	Madhusudan Paul, Ashish Anand and Saptarshi Pyne. Impact of the Continuous Evolution of Gene Ontology on Similarity Measures
128	Md. Taksir Hasan Majumder, Md Mahabur. Rahman, Anindya Iqbal and M Sohel Rahman. A Shallow Residual-Inception Network for Homoglyph
129	Sanyam Rajpal, Debanjan Sadhya, Kanjar De, Partha Pratim Roy and Balasubramanian Raman. EAI-NET: Effective and Accurate Iris Segmentation Network
131	Ronak Gupta, Prashant Anand, Vinay Kaushik, Santanu Chaudhury and Brejesh Lall. Data Driven sensing for Action recognition using Deep Convolutional Neural Networks
137	Vijay Deshpande and Jignesh Bhatt. Bayesian deep learning for deformable medical image registration
141	Himadri Sekhar Bhunia, Alok Kanti Deb and Jayanta Mukhopadhyay. Multipath based Correlation Filter for Visual Object Tracking
146	Savitha Gomathinayagam, Sriramkumar Thamizharsan and Rajendra Prasath. Query Expansion using Information Fusion for Effective Retrieval of News Articles
149	Gandikota Rohit and Deepak Mishra. Hiding Audio in Images: A Deep Learning Approach
154	Nimra Memon, Dr. Samir Patel and Dr. Dhruvesh Patel. Comparative Analysis of Artificial Neural Network with XGBoost Algorithm for PolSAR image classification
161	Pragati Agarwal, Rama Syamala Sreepada and Bidyut Kr. Patra. A Hybrid Framework of Improving Diversity and Long Tail Items in Recommendations
162	Vikas Jain and Ashish Phophalia. M-ary Random Forest
164	Vikas Jain, Jaya Sharma, Kriti Singhal and Ashish Phophalia. Exponentially Weighted Random Forest
168	Srinika Selvam and Deepak Mishra. Multi-Scale Attention aided Multi-Resolution Network for Human Pose Estimation
169	Shiv Kumar Tiwari, Aniruddha Mazumdar and Prabin Kumar Bora. Detection of Splicing Forgery using CNN-extracted Camera-Specific Features
177	Amit Vishwakarma, M.K. Bhuyan, Debajit Sarma and Kangkana Bora. Multi-Focus Image Fusion using Sparse Representation and Modified Difference
178	Durgesh Kumar and Sanasam Ranbir Singh. Prioritized Named Entity driven LDA for document clustering

179	Sumona Biswas and Shovan Barma. Usability of Foldscope in Food Quality Assessment Device
181	Abhay Kagalkar, Abhijeet Ganapule and Uma Mudenagudi. Learning based Image Selection for 3D reconstruction of heritage sites
183	Sonia Sarmah and Sanjib Kalita. A Supervised band selection method for hyper spectral images based on Information Gain Ratio and Clustering
191	Kiran Bandagar, Pandu Sowkuntla, Salman Abdul Moiz and Sai Prasad P. S. V. S. MR_IMQRA: An Efficient MapReduce Based Approach For Fuzzy Decision Reduct Computation
192	Indrajit Saha, Somnath Rakshit, Michal Denkiewicz and Dariusz Plewczynski. Survival Analysis with the Integration of RNA-Seq and Clinical Data to Identify Breast Cancer Subtype specific Genes
198	Manas Jyoti Das and Lipi B. Mahanta. Design and Analysis of an Isotropic Wavelet features- based Classification algorithm for Adenocarcinoma and Squamous Cell Carcinoma of Lung Histological Images
199	V Vineeth Kumar, Shanthika Naik, Shreya M Pattanshetti, Polisetty L Sarvani and Uma Mudenagudi. Multiple Object Detection in 360° Videos for Robust Tracking
200	Ram Prakash Sharma and Somnath Dey. Local Contrast Phase Descriptor for Quality Assessment of Fingerprint Images
208	Abhimanyu Bar, Anil Kumar and Sai Prasad P.S.V.S. Finding Optimal Rough Set Reduct with A* Search Algorithm
211	Pallabi Saikia, Deepankar Nankani and Rashmi Dutta Baruah. Seismic Signal Interpretation for Reservoir Facies Classification
216	Manoj Sharma, Avinash Upadhyay, Ajay Pratap Singh, Megh Makwana, Brejesh Lall, Santanu Chaudhury, Deepak Kukreja, Anil Saini and Swati Bhugra. Gradually growing Residual and self-Attention based Dense Deep Back Projection Network for Large Scale Super-Resolution of Image
219	Adarsh M J, Vishwanath Tegghihalli and Uma Mudenagudi. A Polynomial Surface Fit Algorithm for Filling Holes in Point Cloud Data
221	Abhirup Banerjee, Robin Choudhury and Vicente Grau. Optimized Rigid Motion Correction from Multiple Non-simultaneous X-Ray Angiographic Projections
223	Sibasis Sahoo and Samarendra Dandapat. Analysis of Speech Source Signals for Detection of Out-of-breath Condition
226	Pushkaraj Shinde and Dr. Shital Raut. Multi-User Activity Recognition using Multi-Label Classification
227	Abhisek Chowdhury. FRIDZ : An Intelligent Multimodal Framework for Real-time Identification of Disaster Zones
231	Alok Singh and Wilson Naik Bhukya. An Evolutionary Approach to Multi-Point Relays Selection in Mobile Ad Hoc Networks
232	Helal Uddin Mullah and Bhabesh Deka. Sparsity Regularization based Spatial-spectral Super-resolution of Multispectral Imagery
234	Sumit Datta and Bhabesh Deka. Group-sparsity based Compressed Sensing Reconstruction for Fast Parallel MRI
241	Rajib Chetia, Satyabrata Malla Bujar Baruah, Soumik Roy and Partha Pratim Sahu. Quantum Image Edge Extraction Based on Modified Sobel Operator
243	Rakcinpha Hatibaruah, Vijay Kumar Nath and Deepika Hazarika. Texture image retrieval using multiple filters and decoded sparse local binary pattern

244	Mukut Senapati and Partha Pratim Sahu. Modelling and Simulation of a Patch Electrode Multilayered Capacitive Sensor
245	Hilly Gohain Baruah, Vijay Kumar Nath and Deepika Hazarika. Remote Sensing image retrieval via Symmetric normal inverse Gaussian modeling of nonsubsamped shearlet transform coefficients
249	Himadri Mukherjee, Ankita Dhar, Md Obaidullah Sk, K.C. Santosh, Santanu Phadikar and Kaushik Roy. Segregating musical chords for automatic music transcription: A LSTM-RNN approach
252	Brijesh Singh, Prasen Kumar Sharma, Rupal Saxena, Arijit Sur and Pinaki Mitra. A New Steganalysis method using Densely Connected ConvNets
261	Dipankar Kundu, Rajat Kumar Pal and Deba Prasad Mandal. Finding Active Experts for Question Routing in Community Question Answering Services
264	Rabinder Kumar Prasad, Dr. Rosy Sarmah and Prof. Subrata Chakraborty. Incremental k-means Method
269	Ronit Hire, Akshat Mandloi and Shyamanta Hazarika. Perception Based Navigation for Autonomous Ground Vehicles
272	Ankita Dhar, Himadri Mukherjee, Md Obaidullah Sk and Kaushik Roy. An Ensemble Learning based Author Identification System
274	Alexy Bhowmick, Sarat Saharia and Shyamanta M Hazarika. Encoding High-order Statistics in VLAD for Scalable Image Retrieval
276	Madhu Kamble, Maddala Venkata Siva Krishna, Aditya Krishna Sai Pulikonda and Hemant Patil. Novel Teager Energy Based Subband Features for Audio Acoustic Scene Detection and Classification
277	Anusuya Pal, Amalesh Gope and Germano S. Iannacchione. Image-based Analysis of Patterns Formed in Drying Drops
279	Kemant Pj, Sujata Supanekar and Shashidhar Koolagudi. Audio Replay Attack Detection for Speaker Verification System using Convolutional Neural Networks
280	Dimpee Baruah and Ankur Bharali. Comparison of the Airline Networks of India with ANI based on Network Parameters
282	Nagaratna B Chittaragi and Shashidhar G Koolagudi. Spectral Feature based Kannada Dialect Classification from Stop Consonants
283	Junaid Alam and Sobha Rani T.. Instance Ranking using Data Complexity Measures for Training Set Selection
284	Ananya Choudhury and Kandarpa Kumar Sarma. A Two Stage Framework for detection and segmentation of writing events in Air-Written Assamese Characters
285	Rimjhim Singh and Poonam Sharma. Improving change detection using centre-symmetric local binary patterns.
287	Pallabi Patowary, Dhruba K. Bhattacharyya and Pankaj Barah. Biomarker Identification for ESCC using Integrative DEA
291	Biswajit Jana and Sriyankar Acharyya. Critical Gene selection by a modified Particle Swarm Optimization Approach
293	Vineetha Ipe and Tony Thomas. Periocular Recognition Under Unconstrained Conditions Using CNN Based Super-Resolution
297	Rutvik Shah, Akshit Soni, Vinod Mall, Tushar Gadhiya and Anil Roy. Automatic Target Recognition From SAR Images Using Capsule Networks

302	Sisir Jena, Santosh Biswas and Jatindra Deka. Systematic Design of Approximate Adder using Significance based Gate-Level Pruning (SGLP) for Image Processing Application
309	Sharada Bhat and B H Shekar. Iris Recognition by Learning the Fragile Bits on Multi-patches using Monogenic Riesz Signals
310	Shikha Baghel, Mrinmoy Bhattacharjee, S. R. M. Prasanna and Prithwijit Guha. Shouted and Normal Speech Classification using 1D CNN
314	Reshma Rastogi and Ritesh Gangnani. Semi-supervised Multi-category Classification with Generative Adversarial Networks
331	Abir Chowdhury, Biswadeep Chakraborty, Lidia Ghosh, Dipayan Dewan and Amit Konar. A Dynamical Phase Synchronization Based Approach to Study the Effects of Long-Term Alcoholism on Functional Connectivity Dynamics
332	Zeeshan Qadir, Eashita Chowdhury, Lidia Ghosh and Amit Konar. Quantitative Analysis of Cognitive Load Test while Driving in a VR vs non-VR environment
336	Ujjwal Baid, Bhakti Baheti, Prasad Dutande and Sanjay Talbar. Detection of Pathological Myopia and Optic Disc Segmentation with Deep Convolutional Neural Networks
339	Surojit Nath, Krishtina Doley, Ritayan Kashyap and Biplob Mondal. Syringe based automated fluid infusion system for surface plasmon resonance microfluidic application
340	Naveen Saini, Sriparna Saha and Abhinav Ralhan. Incorporation of Neighborhood Concept in Enhancing SOM based Multi-label Classification
342	Veronica Naosekpam, Alexy Bhowmick and Shyamanta M Hazarika. Superpixel Correspondence for Non-Parametric Scene Parsing of Natural Images
348	Prithwish Jana, Swarnabja Bhaumik and Partha Pratim Mohanta. A Multi-Tier Feature Fusion Strategy for Event Classification in Unconstrained Videos
351	Sumeet Saurav, Prashant Gidde, Sanjay Singh and Ravi Saini. Power Line Segmentation in Aerial Images Using Convolutional Neural Networks
352	Gaurav Nakum, Prithwijit Guha and Rashmi Dutta Baruah. Visual Object Tracking Using Perceptron Forests and Optical Flow