<table>
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<tr>
<th>Date</th>
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<th>Events</th>
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<tbody>
<tr>
<td>4th Jan 2020 (Saturday)</td>
<td>8.30 AM – 9.30 AM</td>
<td>Registration for participants</td>
<td><strong>Venue</strong>: Ground Floor, LHC-C, Western Campus, NITK Surathkal</td>
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<tr>
<td></td>
<td>9.30 AM – 10.30 AM</td>
<td>Inaugural Ceremony</td>
<td><strong>Tea Break</strong></td>
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<tr>
<td></td>
<td>10.30 AM – 11.00 AM</td>
<td><strong>Keynote I</strong></td>
<td>Speaker: Prof. Venkat N Gudivada, Professor and Chair, Department of Computer Science, East Carolina University, Greenville, NC 27858, USA</td>
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<td><strong>Venue</strong>: Seminar Hall, LHC-C, Western Campus, NITK Surathkal</td>
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<td></td>
<td><strong>Speaker</strong>: Mr. Aninda Bose, Senior Editor- Interdisciplinary Applied Sciences, Publishing Department, Springer Nature</td>
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<td><strong>Venue</strong>: Seminar Hall, LHC-C, Western Campus, NITK Surathkal</td>
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<td></td>
<td>11.00 AM – 11.45 AM</td>
<td><strong>Keynote II</strong></td>
<td><strong>Lunch Break</strong></td>
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<td></td>
<td>11.45 AM – 12.30 PM</td>
<td>Technical Paper Presentation Sessions (Parallel)</td>
<td><strong>Track I (Session 1 and Session 2)</strong> [Venue: CR3]</td>
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<tr>
<td></td>
<td>12.30 PM – 1.15 PM</td>
<td></td>
<td><strong>Track II (Session 1 and Session 2)</strong> [Venue: CR6]</td>
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<td><strong>Track III (Session 1 and Session 2)</strong> [Venue: CR9]</td>
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<td>1.30 PM – 5 PM</td>
<td></td>
<td><strong>Special Session Track I (Session 1 &amp; Session 2)</strong> [Venue: LH1]</td>
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<td><strong>Special Session Track II (Session 1 &amp; Session 2)</strong> [Venue: LH2]</td>
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<td>6.00 – 8.00 PM</td>
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<td><strong>Cultural Programme and Gala Dinner</strong></td>
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<td>8.30 AM – 9.30 AM</td>
<td>Registration for participants</td>
<td>Venue: Ground Floor, LHC-C, Western Campus, NITK Surathkal</td>
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<tr>
<td>5th Jan 2020 (Sunday)</td>
<td>9.30 AM – 10.15 AM</td>
<td>Keynote III</td>
<td>Speaker: Prof. Ganapathi Panda, Professor and Former Deputy Director, Indian Institute of Technology, Bhubaneswar, India [Venue: Seminar Hall, LHC-C, Western Campus, NITK Surathkal]</td>
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<td>10.30 – 11AM</td>
<td>Tea Break</td>
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<tr>
<td></td>
<td>11.00 AM – 1.30 PM</td>
<td>Parallel Technical Paper Presentation Sessions</td>
<td>Track IV (Session 1) [Venue : CR3]</td>
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<td>Track V (Session 1) [Venue : LH1]</td>
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<td>Track VI (Session 1) [Venue : LH2]</td>
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<td></td>
<td>Special Session Track III (Session 1) [Venue : CR6]</td>
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<td></td>
<td>1.30 – 2.30PM</td>
<td>Lunch</td>
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<td></td>
<td>2.30 PM – 3.30 PM</td>
<td>Valedictory Ceremony</td>
<td>Venue: Seminar Hall, LHC-C, Western Campus, NITK Surathkal</td>
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### Track I - Session 1

**Date:** 04th January 2020  
**Time:** 1.30 PM – 3.00 PM  
**Venue:** CR3, LHC-C, Western Campus, NITK Surathkal

<table>
<thead>
<tr>
<th>Sl.no</th>
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| 1.    | PID-2   | Faster Result Retrieval from Health Care Product Sales Data Warehouse using Materialized Queries  
*Sonali Chakraborty, Jyotika Doshi* |
| 2.    | PID-4   | Optimum resource allocation for robotics tasks in cloud computing  
*Mahendra Bhatu Gawali* |
| 3.    | PID-6   | Feature Selection using Ant Colony Optimization and Weighted Visibility Graph  
*Leena C Sekhar, R Vijayakumar* |
| 4.    | PID-10  | From Generic to Custom: A Survey on Role of Machine Learning in Pharmacogenomics, Its Applications and Challenges  
*Sana Aiman* |
| 5.    | PID-11  | Personalized Structure Balance Theory Based Movie Recommendation System  
*Aishwarya Sivakumar, Nidheesha Amedapu, Vaudha Avuthu, Brindha M.* |
| 6.    | PID-16  | Machine Learning Techniques for the Investigation of Phishing Websites  
*Ajaykumar K B, Dr. Bhawana Rudra* |
| 7.    | PID-17  | Feature Extraction and Classification of Gestures from Myo-Electric Data using a Neural Network Classifier  
*Prahaas Amin, Airani Mohammad Khan, Akshay Ram Bhat, Gautham Rao* |
| 8.    | PID-18  | Text-Convolutional Neural Networks for Fake News Detection in Tweets  
*Sakshi, Harsh Sinha, Dr. Yashvardhan Sharma* |
| 9.    | PID-19  | Effect of Soil and Climatic Attribute on Greenhouse Gas Emission from Agriculture Sector  
*Pranali K Kosamkar* |
| 10.   | PID-23  | Optimal Image Feature Ranking and Fusion for Visual Question Answering  
*Sruthy Manmadhan, Binsu C Kovoor* |
| 11.   | PID-210 | Experimental Analysis of Fuzzy Clustering Algorithms  
*Sonika Dahiya, Anushka Gosai, Suma Maan* |
### Track I - Session 2

**Date:** 04th January 2020  
**Time:** 3.15 PM – 4.45 PM  
**Venue:** CR3, LHC-C, Western Campus, NITK Surathkal

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| 1.    | PID-24  | An Investigation on Indoor Navigation Systems  
*J. Akilandeswari, Naveen Kumar A, Sabeenian R S, Iyyanar P, Paramasivam M E, Jothi G*
| 2.    | PID-25  | Conceptualization and Design of Remotely-Accessible Hardware Interface (RAHI) Lab  
*Shivam Mahesh Potdar, K V Gangadharan, Pruthviraj Umesh*
| 3.    | PID-27  | A Non-invasive Approach for Driver Drowsiness Detection using Convolutional Neural Networks  
*Sreelakshmi K K, J Jennifer Ranjani,*
| 4.    | PID-28  | Disaster Severity Analysis from Micro-blog Texts using Deep-NN  
*Ramesh Wadawadagi, V B Pagi*
| 5.    | PID-29  | WEKA Result Reader â€“ A Smart Tool for Reading and Summarizing WEKA  
*Ranjit Panigrahi, Samarjeet Borah, Udit Kumar Chakraborty*
| 6.    | PID-30  | Predicting Reliability of Web Services using Hidden Markov Model  
*Shridhar Allagi, Pradeep Surasura*
| 7.    | PID-31  | Optimal Contrast and Size Invariant Recursive VCS using Perfect Reconstruction of White Pixels  
*Jisha T E, Thomas Mooth*
| 8.    | PID-32  | Performance Analysis of Brain Imaging using Enriched CGLS and MRNSD in Microwave Tomography  
*Sivani Priya R, N Nithya, Dr. M S K Manikandan*
| 9.    | PID-35  | Analysis and Identification of EEG Features for Mental Stress  
*Mithul Kumar Ahirwal, Mangesh Ramaji Kose*
| 10.   | PID-42  | Blockchain Based Grievance Redressal System  
*Nishant Dalvi, Rakshitha Shettigar, Ketan Ingale, Farha Ansari, Ramkrushna C Maheshwar*
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| 1.    | PID-45  | Utility of Neural Embeddings in Semantic Similarity of Text Data  
*Manik Hendre, Prasenjit Mukherjee and Manish Godse* |
| 2.    | PID-49  | Big Data and Machine Learning Analytics to detect Epileptic Seizures using Random Window Optimization  
*Sanila S, Dr. S Sathyalakshmi* |
| 3.    | PID-50  | An Efficient Evaluation of Spatial search on road network using G Tree  
*Shahina C P* |
| 4.    | PID-51  | Investigation into the efficacy of various machine learning techniques for mitigation in credit card fraud detection  
*Sudhansu Ranjan Lenka, M. Pant, R. K. Barik, S S Patra, H Dubey* |
| 5.    | PID-52  | Temporal Modeling of On-street Parking Data for Detection of Parking Violation in Smart Cities  
*Shivkumar Sahoo, Niranjan Panigrahi, Debasis Mohapatra, Asutosh Panda, Arvind Sinha* |
| 6.    | PID-56  | Performance Optimization of Big Data Applications using Parameter Tuning of Data Platform Features through Feature Selection Techniques  
*Tanuja Pattanshetti, Vahida Attar* |
| 7.    | PID-60  | Development of Emotional Decision Making Model using EEG Signals  
*Mithul Kumar Ahirwal, Mangesh Ramaji Kose* |
| 8.    | PID-62  | Comparative Approach of Image Super resolution for Agricultural Application  
*Sanket B Kasturiwala* |
| 9.    | PID-63  | HMM Classifier Object Recognizing System in Brain Computer Interface  
*Anupama H S* |
| 10.   | PID-64  | Deep learning for stock index tracking: Bank sector case  
*Arjun R, Suprabha K R, Ritanjali Majhi* |
| 11.   | PID-67  | Rank Consensus between Importance Measures in Hypergraph Model of Social Network  
*Debasis Mohapatra, Manas Ranjan Patra* |
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#### Track II - Session 2

**Date:** 04th January 2020  
**Time:** 3.15 PM – 4.45 PM  
**Venue:** CR6, LHC-C, Western Campus, NITK Surathkal

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<tr>
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| 1.    | PID-70  | Amplifying the Polarity Categorization on Twitter Data using Tweet Polarizer algorithm and Emoticons Score  
        |         | *D Nvsls Indira, Nvr Swaroop Kumar J* |
| 2.    | PID-73  | Classification of Fashion Images using Transfer Learning  
        |         | *Raji S Pillai, Sreekumar K* |
| 3.    | PID-75  | A Novel Adaptive Out of Step Protection in Synchronous Generators Using Support Vector Machine Algorithm  
        |         | *R Hemavathi, I Limsha Deborah, M Geethanjali* |
| 4.    | PID-76  | Sentiment Analysis of Movie Reviews using Support Vector Machine Classifier with Linear kernel function  
        |         | *Sheik Abdullah A, Akash K, Shamin Thres J, Selvakumar S* |
| 5.    | PID-77  | Blockchain-based Sybil-secure data transmission (SSDT) IoT framework for Smart City applications  
        |         | *Sonal Kumar, Ayan Kumar Das, Ditipriya Sinha* |
| 6.    | PID-79  | An Empirical Study of Neural Network Hyper Parameters  
        |         | *Aditya Makwe, A S Rathore* |
| 7.    | PID-82  | Waste Management System: Approach with IoT, Prediction and Dashboard  
        |         | *Ramai Varangaonkar, Yashveer Girdhar, Bhanuja Viswanadhapalli, Kumar Kannan* |
| 8.    | PID-84  | BRAIN TUMOUR DETECTION IN MRI USING DEEP LEARNING  
        |         | *Shanmuga Priya S, Saran Raj S, Dr B Surendiran* |
| 9.    | PID-90  | Parallel Implementation of Luhn’s Algorithm for Credit Card Validation using MPI and CUDA  
        |         | *Shreyas M L, P Karthik G Kudva, Ashwath Rao B, Shwetha Rai, Gopalakrishna Kini N* |
| 10.   | PID-91  | Malayalam POS Tagger- A comparison using SVM and HMM  
        |         | *Usha K and S Lakshmana Pandian* |
| 11.   | PID-92  | Comparison of CutShort: A Hybrid Sorting Technique using MPI and CUDA  
<pre><code>    |         | *Shraddha Naik, Ashwath Rao B, Shwetha Rai, Gopalakrishna Kini N* |
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<tr>
<td>1.</td>
<td>PID-93</td>
<td>Self-Learning and Self-Organizing Log Files by Generating Recursive Associations&lt;br&gt; <em>K Indra Gandhi</em></td>
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<tr>
<td>3.</td>
<td>PID-97</td>
<td>IoT Stream Data Compression Using LDPC Coding&lt;br&gt; <em>Rajni Jindal, Dr Neetesh Kumar, Sanjay Patidar</em></td>
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<td>4.</td>
<td>PID-100</td>
<td>Improved PSO for Task Scheduling in Cloud Computing&lt;br&gt; <em>Keshavamurthy B N, Richa</em></td>
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<td>5.</td>
<td>PID-101</td>
<td>An adaptive system for yogic gesture recognition using Neural Network&lt;br&gt; <em>Priyanka Choudhary, Satya Narayan Tazi</em></td>
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<td>6.</td>
<td>PID-103</td>
<td>Parallel Implementation of kNN algorithm for Breast Cancer Detection&lt;br&gt; <em>Shreesha Joshi, Suhas Aithal</em></td>
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<td>7.</td>
<td>PID-105</td>
<td>Correlated high average-utility itemset mining&lt;br&gt; <em>Krishan Kumar Sethi</em></td>
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<td>8.</td>
<td>PID-108</td>
<td>Interactive Labeled Object Treemap: Visualization Tool for Multiple Hierarchies&lt;br&gt; <em>Mahipal Jadeja, Hitarth Kanakia, Rahul Muthu</em></td>
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<td>9.</td>
<td>PID-109</td>
<td>Medical Transcriptions and UMLS based Disease Inference and Risk Assessment&lt;br&gt; <em>Thamizharuvi Arikrishnan, Dr. S Swamynathan</em></td>
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<tr>
<td>10.</td>
<td>PID-112</td>
<td>Parallel Message Encryption through Playfair Cipher using CUDA&lt;br&gt; <em>Saloni Goyal, Balie Shalomi Pacholi, Ashwath Rao B, Shwetha Rai and Gopalakrishna Kini N</em></td>
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<td>11.</td>
<td>PID-113</td>
<td>Text Classification using Multilingual Sentence Embeddings&lt;br&gt; <em>Ananth Saraswat, Kumar Abhishek, Shekhar Kumar</em></td>
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### Track III - Session 2

**Date:** 04th January 2020  
**Time:** 3.15 PM – 04.45 PM  
**Venue:** CR9, LHC-C, Western Campus, NITK Surathkal

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| 1.    | PID-118 | Real-Time Yawn Extraction for Driver’s Drowsiness Detection  
*Sumeet Saurav, Mehul Kasliwal, Raghav Agrawal, Sanjay Singh and Ravi Saini* |
| 2.    | PID-122 | FloT: A QoS-Aware Fog-IoT Framework to Minimize Latency in IoT Applications via Fog Offloading  
*Arikumar K S, Natarajan V* |
| 3.    | PID-124 | A Study on Implementation of Text Analytics over Legal Domain  
*Dipanjan Saha, Riya Sil, Dr. Abhishek Roy* |
| 4.    | PID-125 | Advanced Key Management System (AKMS) for Security in Public Clouds  
*Amarnath J L* |
| 5.    | PID-126 | Machine Learning and Feature Selection based Ransomware Detection using Hexacodes  
*Bheemidi Vikram Reddy, Gutha Jaya Krishna* |
| 6.    | PID-127 | Hypertension Risk Prediction using Deep Neural Network  
*M J Sivambigai, E Murugavalli* |
| 7.    | PID-128 | Machine Learning Approach for Student Academic Performance Prediction  
*K Sachin Rai, K Aditya Shastry, Surendra Pratap, Saurav Kishore, Priyanka Mishra, Sanjay HA* |
| 8.    | PID-130 | Appearance Based Features for Detection of a Stable Age  
*Sumithra R, Vinay Kumar, D S Guru* |
| 9.    | PID-131 | An automatic predictive model for sorting of artificially and naturally ripened mangoes  
*Anitha Raghavendra, Mahesh K Rao, D S Guru* |
| 10.   | PID-132 | A comparative analysis of different classifiers and a proposed genetically optimized Neural Network  
*Ankita Tiwari, Bhawana Sahu* |
| 11.   | PID-134 | Vehicle Direction based B-MFR Routing protocol for VANET  
*Parimala Garnepudi, Dr. Venkatesulu D* |
### Eighth International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020)
**January 4–5, 2020**

**Track IV**
**Date:** 05th January 2020  
**Time:** 11.00 AM – 1.30 PM  
**Venue:** CR3, LHC-C, Western Campus, NITK Surathkal

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| 1.    | PID-136 | Glacier surface flow velocity of Hunza basin, Karakoram using satellite optical data  
*S Sivaranjani, M Geetha Priya, D Krishnaveni* |
| 2.    | PID-137 | Diabetic Retinopathy Detection using Transfer Learning and Deep Learning  
*Akhilesh Kumar Gangwar, Prof. Vadlamani Ravi* |
| 3.    | PID-138 | Prediction of Jobs and admission in Technical courses with respect to demographic location using Multilinear Regression Model  
*Aishwarya Kumar, Shakti Mishra, Sanjay H A* |
| 4.    | PID-141 | Content Based Image Retrieval Using Statistical Color occurrence Feature on Multiresolution Dataset  
*Debanjan Pathak, U S N Raju, Sukhdev Singh, G Naveen* |
| 5.    | PID-142 | EEDCHS-PSO: Energy Efficient Dynamic Cluster Head Selection with Differential Evolution and Particle Swarm Optimization for Wireless Sensor Networks (WSNS)  
*T Guhan, N Revathy, K Anuradha, B Sathyabama* |
| 6.    | PID-143 | Classification of dry/wet snow using Sentinel-2 high spatial resolution optical data  
*V Nagajothi, M Geetha Priya, Parmand Sharma, D Krishnaveni* |
| 7.    | PID-145 | Potential of Robust Face Recognition form Real-time CCTV video stream for Biometric Attendance using Convolutional Neural Networks  
*Suresh Limkar, Prajwal C, Shashank Hunashimarad, Ankit Baj, Rupali Patil* |
| 8.    | PID-146 | ATM Theft Investigation using Convolutional Neural Network  
*Sathish Y C, Bhawana Rudra* |
| 9.    | PID-148 | Classification & Prediction of Rice Crop Diseases using Convolutional Neural Network  
*Suresh Limkar, Prajwal Chinchmalatpure, Sneha Kulkarni, Divya Sharma, Mithila Desai* |
| 10.   | PID-149 | SAGRU: A Stacked Autoencoder based Gated Recurrent Unit Approach to Intrusion Detection  
*Bhuvaneswari Amma, S Selva Kumar, R Leela Velusamy* |
| 11.   | PID-153 | Comparison of KNN and SVM Algorithms to Detect Clinical Mastitis in Cows Using Internet of Animal Health Things  
*Ankitha K, Dr. Manjaiah D H* |
| 12.   | PID-154 | Two-way face scrutinizing system for elimination of proxy attendances using deep learning  
*Arvindsingh Rathore, Ninad Patil, Shreyash Bobade, Dr Shilpa Metkar* |
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<tr>
<th>Sl.no</th>
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| 1.   | PID-155 | Ontology driven Sentiment Analysis in Indian Healthcare Sector  
      |         | Anmol Chandra Singh, Harsh Pandey, Milind Srivastava, Abhilasha Sharma |
| 2.   | PID-156 | Segmentation of Nuclei in Microscopy Images across Varied Experimental Systems  
      |         | Sohom Dey |
| 3.   | PID-158 | Transitional and parallel approach of PSO and SGO for solving optimization problems.  
      |         | Cherie Vartika Stephen, Suresh Satapathy |
| 4.   | PID-161 | Remote Sensing Based Crop Identification Using Deep Learning  
      |         | Thangadeepiga E, Alaguraja R A |
| 5.   | PID-163 | Three-level hierarchical classification scheme: Its application to fractal image compression technique  
      |         | Utpal Nandi, Biswajit Laya, Anudyoti Ghorai, Moiranthem Marjit Singh |
| 6.   | PID-164 | Prediction of POS tagging for Unknown words for specific Hindi and Marathi language  
      |         | Kirti Chiplunkar, Meghana Kharche, Tejaswini Chaudhari, Saurabh Shalingram, Suresh Limkar |
| 7.   | PID-165 | Modified Multi Cohort Intelligence Algorithm with Panoptic Learning for Unconstrained Problems  
      |         | Apoorva Shastri, Aniket Nargundkar, Anand Kulkarni |
| 8.   | PID-166 | Sentiment Analysis on Movie Review using Deep Learning RNN Method  
      |         | Priya Patel, Devkishan Patel, Chandani Naik |
| 9.   | PID-168 | Super Sort Algorithm Using MPI And CUDA  
      |         | Anaghashree |
| 10.  | PID-171 | Significance of Network Properties of Function Words in Author Attribution  
      |         | Sarig aRaj, Kannan B, Jagathyraj V P |
| 11.  | PID-173 | Performance analysis of Periodic Defected ground structure for CPW fed Microstrip antenna  
      |         | Rajshri C Mahajan |
| 12.  | PID-175 | Energy Aware Task Consolidation in Fog Computing Environment  
<pre><code>  |         | Satyabrata Rout, Sudhansu Shekhar Patra, Jnyana Ranjan Mohanty, Rabindra K Barik, Rakesh K Lenka |
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| 1.    | PID-177 | Modelling CPU Execution Time of AES Encryption Algorithm As Employed Over a Mobile Environment  
*Ambili Thomas and V Lakshmi Narasimhan* |
| 2.    | PID-178 | Gradient Based Feature Extraction for Early Termination and Fast Intra Prediction Mode decision in HEVC  
*Yogitha Mukund Vaidya, Shilpa Metkar* |
| 3.    | PID-180 | A Variance Model for Risk Assessment During Software Maintenance  
*V Lakshmi Narasimhan* |
*Suryakant Badde, Vikash Kumar, Dr. Kakali Chatterjee, Dr. Ditipriya Sinha* |
| 5.    | PID-191 | Benchmarking Semantic, Centroid and Graph based approaches for Multi-document Summarization  
*Anumeha Agrawal, Anil George, Selvan Sunitha Ravi, Sowmya Kamath* |
| 6.    | PID-195 | Water Availability Prediction in Chennai City using Machine Learning  
*Boommika A P* |
| 7.    | PID-205 | Field Extraction and Logo Recognition on Indian Bank Cheques using Convolution Neural Networks  
*Gopireddy Vishnuvardhan, Vadlamani Ravi, Amiya Ranjan Mallik* |
| 8.    | PID-207 | A Genetic Algorithm Based Medical Image Watermarking For Improving Robustness and Fidelity in Wavelet Domain  
*Balasamy Krishnasamy, M Balakrishnan, Arockia Christopher* |
| 9.    | PID-208 | Developing Dialog Manager in Chatbots via Hybrid Deep Learning Architectures  
*Basit Ali, Vadlamani Ravi* |
| 10.   | PID-212 | A Regularization based Feature Scoring Criterion on Candidate Genetic Marker Selection of Sporadic Motor Neuron Disease  
*Karthik Sekaran, Sudha M* |
| 11.   | PID-217 | A study for ANN model for spam classification.  
*Shreyasi Sinha, Isha Ghosh, Suresh Chandra Satapathy* |
| 12.   | PID-218 | Automated Synthesis of Memristor Crossbars using Deep Neural Networks  
*Dwaipayan Chakraborty, Andy Michel, Jodh Pannu, Sunny Raj, Suresh Satapathy, Steven Fernandes, Sumit K. Jha* |
# SPECIAL SESSIONS

**Eighth International Conference on Frontiers of Intelligent Computing : Theory and Applications (FICTA 2020)**  
**January 4–5, 2020**

## HOME

**Special Session Track I - Session 1**  
**Healthcare Analytics and Language Processing (HeAL)**

**Date:** 04\textsuperscript{th} January 2020  
**Time:** 1.30 PM – 3.00 PM  
**Venue:** LH1, LHC-C, Western Campus, NITK Surathkal

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</table>
| 1.    | HeAL-54 | Fingerspelling identification for Chinese sign language via wavelet entropy and kernel support vector machine  
*Zhaosong Zhu, Miaoxian Zhang, Xianwei Jiang* |
| 2.    | HeAL-60 | Clustering Diagnostic Codes: Exploratory Machine Learning Approach for preventive care of Chronic Diseases  
*Mohan Kumar K N, S. Sampath, Mohammed Imran, Pradeep N* |
| 3.    | HeAL-63 | NormCG: A Novel Deep Learning Model for Medical Entity Linking  
*JingChi Jiang* |
| 4.    | HeAL-64 | A Hybrid Model for Clinical Concept Normalization  
*JingChi Jiang* |
| 5.    | HeAL-66 | Classification of text documents of an electronic archive based on an ontological model  
*Vadim Moshkin, Anton Zarubin, Albina Koval* |
| 6.    | HeAL-67 | Influence of Followers on Twitter Sentiments about Rare Disease Medications  
*Abhinav Choudhury, Shruti Kaushik, Varun Dutt* |
| 7.    | HeAL-69 | Pulmonary Nodule Detection and False Acceptance Reduction: Review  
*Sheetal U. Pawar, Babasaheb G. Patil* |
| 8.    | HeAL-71 | Leveraging Deep Learning Approaches for Patient Case Similarity Evaluation  
*Nachiket Naganure, Ashwin Nayak U, Sowmya Kamath S* |
| 9.    | HeAL-72 | RUSDataBoost-IM: Improving Classification Performance in Imbalanced Data  
*Satyam Maheshwari, R. C. Jain, R. S. Jadon* |
| 10.   | HeAL-74 | Performance Enhancement of Gene Mention Tagging using Deep Learning and Biomedical Named Entity Recognition  
*Ashutosh Kumar, Aakanksha Sharaff* |
### Special Session Track I - Session 2

**Emerging Trends in Cognitive Computing and Deep Learning (ETCDL)**

**Date:** 04th January 2020  
**Time:** 3.15 PM – 4.45 PM  
**Venue:** LH1, LHC-C, Western Campus, NITK Surathkal

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</table>
| 1.    | ETCDL-1  | Efficient Resource Scheduling using Modified Particle Swarm Optimization in Fog Computing  
         *Sonica Pauline Mavidza, Dr. Sumathy S* |
| 2.    | ETCDL-2  | Training time reduction in transfer learning for a similar dataset Using Deep learning  
         *Ekansh Gayakwad, Prabhu J, Vijay Anand R, Sandeep Kumar M R* |
| 3.    | ETCDL-3  | A Novel Model Object Oriented Approach to the Software Design  
         *Rahul Yadav, Prabhu J, Vikrant Singh* |
| 4.    | ETCDL-4  | An Efficient Filter Based Feature Subset Selection for High Dimensional Microarray Data Classification  
         *D.M. Deepak Raj* |
| 5.    | ETCDL-5  | A Study on Preventing DDOS Flooding Attacks by Dynamic Path Identifiers  
         *Gopichand G* |
| 6.    | ETCDL-6  | Efficiently Combining Tweet Content and Social Interactions to Enhance Stress Recognition Performance  
         *P. Neelakantan, Somula Ramasubba Reddy* |
| 7.    | ETCDL-7  | Optimal Energy Distribution In Smart Grid  
         *Somula Ramasubba Reddy* |
| 8.    | ETCDL-8  | Robust Automation Testing tool for GUI applications in Agile world-Faster to Market  
         *Madhu Dande, Somula Ramasubba Reddy* |
| 9.    | ETCDL-9  | Storage Optimization using File Compression Techniques for Big Data  
         *T. Aditya Sai Srinivas, Somula Ramasubba Reddy, K. Govinda, C. Pavan Kumar* |
| 10.   | ETCDL-10 | Statistical Granular Framework Towards Dealing Inconsistent Scenarios for Parkinson,Äôs Disease Classification Big Data  
         *D. Saidulu Dr. R. Sasikala* |
| 11.   | ETCDL-11 | Estimation of sediment load using Adaptive Neuro Fuzzy Inference System at Indus river basin, India  
         *Nihar Ranjan Mohanta, Paresh Biswal, Senapati Suman Kumari, Sandeep Samantaray, Abinash Sahoo* |
| 12.   | ETCDL-12 | Efficiency of River flow prediction in river using Wavelet-CANFIS: A case study  
         *NiharRanjan Mohanta, Niharika Patel, Kamaldeep Beck, Sandeep Samantaray Abinash Sahoo* |
## Special Session Track II - Session 1

### Recent Trends in Machine Learning using IoT (RTML)

**Date:** 04\(^{th}\) January 2020  
**Time:** 1.30 PM – 3.00 PM  
**Venue:** LH2, LHC-C, Western Campus, NITK Surathkal

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| 1.    | FICTA-01 | Customer Support Chatbot using Machine Learning  
* R. Madana Mohana, Nagarjuna Pitty, Lalitha Surya Kumari |
| 2.    | FICTA-02 | Prediction of Diabetes Using Internet of Things and Decision Trees: SLDPS  
* Dr C Kishor Kumar Reddy |
| 3.    | FICTA-03 | Review Paper on Fourth Industrial Revolution and its Impact on Humans  
* D Srija Harshika |
| 4.    | FICTA-05 | Edge Detection CANNY Algorithm using Adaptive Threshold Technique  
* Ojashwini R N, Dr. R Gangadhav Reddy, Rani R N, Pruthvija B |
| 5.    | FICTA-06 | FASHION EXPRESS- All time memory app  
* V.Sai Deepa Reddy |
| 6.    | FICTA-07 | Local production of sustainable electricity from domestic wet waste in India  
* P. Sahithi Reddy, M. Goda Sreya, R. Nithya Reddy |
| 7.    | FICTA-09 | GPS Tracking and Level Analysis of River Water Flow  
* Pasham Akshatha Sai, Tandra Hyde Celestia, Kasturi Nischitha |
| 8.    | FICTA-10 | Machine learning approach to analyze polluted air  
* Shruthi behera, Sangapu likitha, Ashoka deepthi manukonda |
| 9.    | FICTA-11 | Ensuring Data Privacy using Machine Learning for Responsible Data Science  
* Millena Debapradja Jen, Sunil Samanta Singhar, Bhabendu Kumar Mohanta, Somula Ramasubbareddy |
| 10.   | FICTA-12 | An IoT Based Wearable Device for Healthcare Monitoring  
* Julian J, R Kavitha, Joy Rakesh Y |
| 11.   | FICTA-13 | Human Activity Recognition Using Wearable Sensors  
* Joy Rakesh Y, R Kavitha, Julian J |
**SPECIAL SESSIONS**

**Eighth International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020)**
January 4-5, 2020

### Special Session Track II - Session 2

**Artificial Intelligence and Machine Learning Applications (AIML)**

**Date:** 04th January 2020  
**Time:** 3.00 PM – 4.45 PM  
**Venue:** LH2, LHC-C, Western Campus, NITK Surathkal

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| 1.    | AIML-6  | An Unsupervised Searching Scheme over Encrypted Cloud Database  
Janani T, Brindha M |
| 2.    | AIML-7  | Impact of Dimension Reduced Spectral Features on Open Set Domain Adaptation for Hyperspectral image Classification  
Krishnendu C S, Sowmya V, Soman K P |
| 3.    | AIML-9  | Fog-based Video Surveillance System for Smart City Applications  
Natesha B V, Ram Mohana Reddy Guddeti |
| 4.    | AIML-12 | Performance Improvement of Deep Residual Skip Convolution Neural Network for Atrial  
Sanjana K, Sowmya V, Gopalakrishnan E A, Soman K P |
| 5.    | AIML-18 | Detection and Classification of faults in Photovoltaic system using Random Forest Algorithm  
Sowthily C, Senthil Kumar, Brindha M |
| 6.    | AIML-28 | Clustering Enhanced Encoder-Decoder approach to Dimensionality Reduction and Encryption  
Mukesh B R, Madhumitha Nara, Aditya Pai, Vivek Srinivas, Anand Kumar M |
| 7.    | AIML-36 | Cryptographic Algorithm Identification Using Deep Learning Techniques  
Sandeep Pamidiparthi, Dr. Sirisha Velampalli |
# SPECIAL SESSIONS

Eighth International Conference on Frontiers of Intelligent Computing: Theory and Applications  
(FICTA 2020)  
January 4–5, 2020

## Special Session Track III - Session 1

**Medical Image Examination with Recent Techniques (MR)**

**Date:** 05th January 2020  
**Time:** 11.00 AM – 1.30 PM  
**Venue:** CR6, LHC-C, Western Campus, NITK Surathkal

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| 1.    | MR-01   | Mining of Cancerous Region from Brain MRI slices with Otsu's Function and DRLS Segmentation  
*Manju Jain* |
| 2.    | MR-02   | An Automated Person Authentication System with Photo to Sketch Matching Technique  
*Reshmi P, N. Sri Madhava Raja, V Rajinikanth, Vaddi Seshagiri Rao* |
| 3.    | MR-03   | Extraction of Leukocyte Section from Digital Microscopy Picture with Image Processing Method  
*R Dellecta Jessy Rashmi, V Rajinikanth, Suresh Chandra Satapathy, N. Sri Madhava Raja* |
| 4.    | MR-04   | Brain MRI Examination with Varied Modality Fusion and Chan-Vese Segmentation  
*N Shalini, D Abirami, N. Sri Madhava Raja, V Rajinikanth, Vaddi Seshagiri Rao* |
| 5.    | MR-05   | Examination of the Brain MRI Slices Corrupted with Induced Noise - A Study with SGO Algorithm  
*Pavidraa R, Preethi R, N. Sri Madhava Raja, V Rajanikanth, B. Parvatha Varthini* |
| 6.    | MR-06   | Segmentation and Assessment of Leukocytes using Entropy Based Procedure  
*Manasi S, Ramyaa M, N. Sri Madhava Raja, V Rajanikanth, Suresh Chandra Satapathy* |
| 7.    | MR-07   | Image Assisted Assessment of Cancer Segment from Dermoscopy Images  
*M Santhosh, R Rubin Silas Raj, N Sri Madhava Raja, V Rajanikanth, Suresh Chandra Satapathy* |
| 8.    | MR-08   | Examination of Optic Disc Sections of Fundus Retinal images - A study with Rim-One Database  
*S Fuzail Ahmed Razeen S, Emmanuel, Sri Madhava Raja, V Rajanikanth, B Parvatha Varthini* |
| 9.    | MR-09   | Inspection of 2D Brain MRI Slice using Watershed Algorithm  
*HARIHARAN D, Hemachandar S, N. Sri Madhava Raja, V Rajanikanth, K Sundaravadivu* |
| 10.   | MR-10   | Extraction of Cancer Section from 2D Breast MRI Slice using Brain Strom Optimization  
*R Elanthirayan, K Sakeenathul Kubra, V, N. Sri Madhava Raja, V Rajanikanth, Suresh Chandra Satapathy* |
| 11.   | MR-11   | Air quality prediction using Time Series Analysis  
*B Senthil Kumar* |
| 12.   | MR-12   | A Comprehensive Survey on Down Syndrome Detection in Fetus Using Modern Technologies  
*Megha I, Vyshnavi Kowshik S, Sadia Ali, Vindhya P Malagi* |