





NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

P.O. Srinivasnagar – 575 025 Karnataka, INDIA



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

~ PROGRAMME SCHEDULE ~  
DAY 1

Date	Time	Events	Details
DAY 1 4 <sup>th</sup> Jan 2020 (Saturday)	8.30 AM – 9.30 AM	Registration for participants	<i>Venue:</i> Ground Floor, LHC-C, Western Campus, NITK Surathkal
	9.30 AM – 10.30 AM	<b>Inaugural Ceremony</b>	
	<b>10.30 AM - 11.00 AM</b>	<b>Tea Break</b>	
	11.00 AM - 11.45 AM	Keynote I	<i>Speaker:</i> Prof. Venkat N Gudivada, Professor and Chair, Department of Computer Science, East Carolina University, Greenville, NC 27858, USA [ <i>Venue:</i> Seminar Hall, LHC-C, Western Campus, NITK Surathkal ]
	11.45 AM -12.30 PM	Keynote II	<i>Speaker:</i> Mr. Aninda Bose, Senior Editor- Interdisciplinary Applied Sciences, Publishing Department, Springer Nature [ <i>Venue:</i> Seminar Hall, LHC-C, Western Campus, NITK Surathkal ]
	<b>12:30 PM -1.15 PM</b>	<b>Lunch Break</b>	
	1.30 PM – 5 PM	Technical Paper Presentation Sessions (Parallel)	 <a href="#">Track I (Session 1 and Session 2) [Venue : CR3]</a>  <a href="#">Track II (Session 1 and Session 2) [Venue: CR6]</a>  <a href="#">Track III (Session 1 and Session 2) [Venue: CR9]</a>  <a href="#">Special Session Track I (Session 1 &amp; Session 2) [Venue: LH1]</a>  <a href="#">Special Session Track II (Session 1 &amp; Session 2) [Venue: LH2]</a>
	<b>6.00 - 8.00 PM</b>	<b>Cultural Programme and Gala Dinner</b>	







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

### ~ PROGRAMME SCHEDULE ~ DAY 2

Date	Time	Events	Details
DAY 2 5 <sup>th</sup> Jan 2020 (Sunday)	8.30 AM – 9.30 AM	Registration for participants	<i>Venue:</i> Ground Floor, LHC-C, Western Campus, NITK Surathkal
	9.30 AM – 10.15 AM	Keynote III	<i>Speaker:</i> Prof. Ganapathi Panda, Professor and Former Deputy Director, Indian Institute of Technology, Bhubaneswar, India [ <i>Venue:</i> Seminar Hall, LHC-C, Western Campus, NITK Surathkal]
	<b>10.30 - 11AM</b>	<b>Tea Break</b>	
	11.00 AM - 1.30 PM	Parallel Technical Paper Presentation Sessions	 <a href="#">Track IV (Session 1)</a> [Venue : CR3]  <a href="#">Track V (Session 1)</a> [Venue : LH1]  <a href="#">Track VI (Session 1)</a> [Venue : LH2]  <a href="#">Special Session Track III (Session 1)</a> [Venue : CR6]
	<b>1.30 – 2.30PM</b>	<b>Lunch</b>	
	2.30 PM – 3.30 PM	Valedictory Ceremony	<i>Venue:</i> Seminar Hall, LHC-C, Western Campus, NITK Surathkal



## Track I - Session 1

Date: 04<sup>th</sup> January 2020

Time: 1.30 PM – 3.00 PM

Venue: CR3, LHC-C, Western Campus, NITK Surathkal

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

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### Track I - Session 2

Date: 04<sup>th</sup> January 2020

Time: 3.15 PM – 4.45 PM

Venue: CR3, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	PID-24	An Investigation on Indoor Navigation Systems <i>J. Akilandeswari, Naveen Kumar A, Sabeenian R S, Iyyanar P, Paramasivam M E, Jothi G</i>
2.	PID-25	Conceptualization and Design of Remotely-Accessible Hardware Interface (RAHI) Lab <i>Shivam Mahesh Potdar, K V Gangadharan, Pruthviraj Umesh</i>
3.	PID-27	A Non-invasive Approach for Driver Drowsiness Detection using Convolutional Neural Networks <i>Sreelakshmi K K, J Jennifer Ranjani,</i>
4.	PID-28	Disaster Severity Analysis from Micro-blog Texts using Deep-NN <i>Ramesh Wadawadagi, V B Pagi</i>
5.	PID-29	WEKA Result Reader – A Smart Tool for Reading and Summarizing WEKA <i>Ranjit Panigrahi, Samarjeet Borah, Udit Kumar Chakraborty</i>
6.	PID-30	Predicting Reliability of Web Services using Hidden Markov Model <i>Shridhar Allagi, Pradeep Surasura</i>
7.	PID-31	Optimal Contrast and Size Invariant Recursive VCS using Perfect Reconstruction of White Pixels <i>Jisha T E, Thomas Mooth</i>
8.	PID-32	Performance Analysis of Brain Imaging using Enriched CGLS and MRNSD in Microwave Tomography <i>Sivani Priya R, N Nithya, Dr. M S K Manikandan</i>
9.	PID-35	Analysis and Identification of EEG Features for Mental Stress <i>Mithul Kumar Ahirwal, Mangesh Ramaji Kose</i>
10.	PID-42	Blockchain Based Grievance Redressal System <i>Nishant Dalvi, Rakshitha Shettigar, Ketan Ingale, Farha Ansari, Ramkrushna C Maheshwar</i>

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### Track II - Session 1

Date: 04<sup>th</sup> January 2020

Time: 1.30 PM – 3.00 PM

Venue: CR6, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	PID-45	Utility of Neural Embeddings in Semantic Similarity of Text Data <i>Manik Hendre, Prasenjit Mukherjee and Manish Godse</i>
2.	PID-49	Big Data and Machine Learning Analytics to detect Epileptic Seizures using Random Window Optimization <i>Sanila S, Dr. S Sathyalakshmi</i>
3.	PID-50	An Efficient Evaluation of Spatial search on road network using G Tree <i>Shahina C P</i>
4.	PID-51	Investigation into the efficacy of various machine learning techniques for mitigation in credit card fraud detection <i>Sudhansu Ranjan Lenka, M. Pant, R. K. Barik, S S Patra, H Dubey</i>
5.	PID-52	Temporal Modeling of On-street Parking Data for Detection of Parking Violation in Smart Cities <i>Shivkumar Sahoo, Niranjan Panigrahi, Debasis Mohapatra, Asutosh Panda, Arvind Sinha</i>
6.	PID-56	Performance Optimization of Big Data Applications using Parameter Tuning of Data Platform Features through Feature Selection Techniques <i>Tanuja Pattanshetti, Vahida Attar</i>
7.	PID-60	Development of Emotional Decision Making Model using EEG Signals <i>Mithul Kumar Ahirwal, Mangesh Ramaji Kose</i>
8.	PID-62	Comparative Approach of Image Super resolution for Agricultural Application <i>Sanket B Kasturiwala</i>
9.	PID-63	HMM Classifier Object Recognizing System in Brain Computer Interface <i>Anupama H S</i>
10.	PID-64	Deep learning for stock index tracking: Bank sector case <i>Arjun R, Suprabha K R, Ritanjali Majhi</i>
11.	PID-67	Rank Consensus between Importance Measures in Hypergraph Model of Social Network <i>Debasis Mohapatra, Manas Ranjan Patra</i>

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### Track II - Session 2

Date: 04<sup>th</sup> January 2020

Time: 3.15 PM - 4.45 PM

Venue: CR6, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	PID-70	Amplifying the Polarity Categorization on Twitter Data using Tweet Polarizer algorithm and Emoticons Score <i>D Nvsls Indira, Nvr Swaroop Kumar J</i>
2.	PID-73	Classification of Fashion Images using Transfer Learning <i>Raji S Pillai, Sreekumar K</i>
3.	PID-75	A Novel Adaptive Out of Step Protection in Synchronous Generators Using Support Vector Machine Algorithm <i>R Hemavathi, I Limsha Deborah, M Geethanjali</i>
4.	PID-76	Sentiment Analysis of Movie Reviews using Support Vector Machine Classifier with Linear kernel function <i>Sheik Abdullah A, Akash K, Shamin Thres J, Selvakumar S</i>
5.	PID-77	Blockchain-based Sybil-secure data transmission (SSDT) IoT framework for Smart City applications <i>Sonal Kumar, Ayan Kumar Das, Ditipriya Sinha</i>
6.	PID-79	An Empirical Study of Neural Network Hyper Parameters <i>Aditya Makwe, A S Rathore</i>
7.	PID-82	Waste Management System: Approach with IoT, Prediction and Dashboard <i>Ramai Varangaonkar, Yashveer Girdhar, Bhanuja Viswanadhapalli, Kumar Kannan</i>
8.	PID-84	BRAIN TUMOUR DETECTION IN MRI USING DEEP LEARNING <i>Shanmuga Priya S, Saran Raj S, Dr B Surendiran</i>
9.	PID-90	Parallel Implementation of Luhn's Algorithm for Credit Card Validation using MPI and CUDA <i>Shreyas M L, P Karthik G Kudva, Ashwath Rao B, Shwetha Rai, Gopalakrishna Kini N</i>
10.	PID-91	Malayalam POS Tagger- A comparison using SVM and HMM <i>Usha K and S Lakshmana Pandian</i>
11.	PID-92	Comparison of CutShort: A Hybrid Sorting Technique using MPI and CUDA <i>Shraddha Naik, Ashwath Rao B, Shwetha Rai, Gopalakrishna Kini N</i>

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### Track III - Session 1

Date: 04<sup>th</sup> January 2020

Time: 1.30 PM – 3.00 PM

Venue: CR9, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	PID-93	Self-Learning and Self-Organizing Log Files by Generating Recursive Associations <i>K Indra Gandhi</i>
2.	PID-94	Analysis and Prediction of Fantasy Cricket Contest Winners using Machine Learning <i>Karthik K, Gokul S Krishnan, Shashank Shetty, Sanjay S Bankapur, Ranjit P Kolkar, Ashwin T S, Manjunath K Vanahalli</i>
3.	PID-97	IoT Stream Data Compression Using LDPC Coding <i>Rajni Jindal, Dr Neetesh Kumar, Sanjay Patidar</i>
4.	PID-100	Improved PSO for Task Scheduling in Cloud Computing <i>Keshavamurthy B N, Richa</i>
5.	PID-101	An adaptive system for yogic gesture recognition using Neural Network <i>Priyanka Choudhary, Satya Narayan Tazi</i>
6.	PID-103	Parallel Implementation of kNN algorithm for Breast Cancer Detection <i>Shreesha Joshi, Suhas Aithal</i>
7.	PID-105	Correlated high average-utility itemset mining <i>Krishan Kumar Sethi</i>
8.	PID-108	Interactive Labeled Object Treemap: Visualization Tool for Multiple Hierarchies <i>Mahipal Jadeja, Hitarth Kanakia, Rahul Muthu</i>
9.	PID-109	Medical Transcriptions and UMLS based Disease Inference and Risk Assessment <i>Thamizharuvi Arikrishnan, Dr. S Swamynathan</i>
10.	PID-112	Parallel Message Encryption through Playfair Cipher using CUDA <i>Saloni Goyal, Balie Shalomi Pacholi, Ashwath Rao B, Shwetha Rai and Gopalakrishna Kini N</i>
11.	PID-113	Text Classification using Multilingual Sentence Embeddings <i>Ananth Saraswat, Kumar Abhishek, Shekhar Kumar</i>

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### Track III - Session 2

Date: 04<sup>th</sup> January 2020

Time: 3.15 PM – 04.45 PM

Venue: CR9, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	PID-118	Real-Time Yawn Extraction for Driver's Drowsiness Detection <i>Sumeet Saurav, Mehul Kasliwal, Raghav Agrawal, Sanjay Singh and Ravi Saini</i>
2.	PID-122	FIoT: A QoS-Aware Fog-IoT Framework to Minimize Latency in IoT Applications via Fog Offloading <i>Arikumar K S, Natarajan V</i>
3.	PID-124	A Study on Implementation of Text Analytics over Legal Domain <i>Dipanjana Saha, Riya Sil, Dr. Abhishek Roy</i>
4.	PID-125	Advanced Key Management System (AKMS) for Security in Public Clouds <i>Amarnath J L</i>
5.	PID-126	Machine Learning and Feature Selection based Ransomware Detection using Hexacodes <i>Bheemidi Vikram Reddy, Gutha Jaya Krishna</i>
6.	PID-127	Hypertension Risk Prediction using Deep Neural Network <i>M J Sivambigai, E Murugavalli</i>
7.	PID-128	Machine Learning Approach for Student Academic Performance Prediction <i>K Sachin Rai, K Aditya Shastry, Surendra Pratap, Saurav Kishore, Priyanka Mishra, Sanjay H A</i>
8.	PID-130	Appearance Based Features for Detection of a Stable Age <i>Sumithra R, Vinay Kumar, D S Guru</i>
9.	PID-131	An automatic predictive model for sorting of artificially and naturally ripened mangoes <i>Anitha Raghavendra, Mahesh K Rao, D S Guru</i>
10.	PID-132	A comparative analysis of different classifiers and a proposed genetically optimized Neural Network <i>Ankita Tiwari, Bhawana Sahu</i>
11.	PID-134	Vehicle Direction based B-MFR Routing protocol for VANET <i>Parimala Garnepudi, Dr. Venkatesulu D</i>



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## Track IV

**Date: 05<sup>th</sup> January 2020**

**Time: 11.00 AM – 1.30 PM**

**Venue: CR3, LHC-C, Western Campus, NITK Surathkal**

Sl.no	PaperId	Paper Details
1.	PID-136	Glacier surface flow velocity of Hunza basin, Karakoram using satellite optical data <i>S Sivaranjani, M Geetha Priya, D Krishnaveni</i>
2.	PID-137	Diabetic Retinopathy Detection using Transfer Learning and Deep Learning <i>Akhilesh Kumar Gangwar, Prof. Vadlamani Ravi</i>
3.	PID-138	Prediction of Jobs and admission in Technical courses with respect to demographic location using Multilinear Regression Model <i>Aishwarya Kumar, Shakti Mishra, Sanjay H A</i>
4.	PID-141	Content Based Image Retrieval Using Statistical Color occurrence Feature on Multiresolution Dataset <i>Debanjan Pathak, U S N Raju, Sukhdev Singh, G Naveen</i>
5.	PID-142	EEDCHS-PSO: Energy Efficient Dynamic Cluster Head Selection with Differential Evolution and Particle Swarm Optimization for Wireless Sensor Networks (WSNS) <i>T Guhan, N Revathy, K Anuradha, B Sathyabama</i>
6.	PID-143	Classification of dry/wet snow using Sentinel-2 high spatial resolution optical data <i>V Nagajothi, M Geetha Priya, Parmanand Sharma, D Krishnaveni</i>
7.	PID-145	Potential of Robust Face Recognition form Real-time CCTV video stream for Biometric Attendance using Convolutional Neural Networks <i>Suresh Limkar, Prajwal C, Shashank Hunashimarad, Ankit Baj, Rupali Patil</i>
8.	PID-146	ATM Theft Investigation using Convolutional Neural Network <i>Sathish Y C, Bhawana Rudra</i>
9.	PID-148	Classification & Prediction of Rice Crop Diseases using Convolutional Neural Network <i>Suresh Limkar, Prajwal Chinchmalatpure, Sneha Kulkarni, Divya Sharma, Mithila Desai</i>
10.	PID-149	SAGRU: A Stacked Autoencoder based Gated Recurrent Unit Approach to Intrusion Detection <i>Bhuvanewari Amma, S Selva Kumar, R Leela Velusamy</i>
11.	PID-153	Comparison of KNN and SVM Algorithms to Detect Clinical Mastitis in Cows Using Internet of Animal Health Things <i>Ankitha K, Dr. Manjaiah D H</i>
12.	PID-154	Two-way face scrutinizing system for elimination of proxy attendances using deep learning <i>Arvindsingh Rathore, Ninad Patil, Shreyash Bobade, Dr Shilpa Metkar</i>



## Track V

Date: 05<sup>th</sup> January 2020

Time: 11.00 AM – 01.30 PM

Venue: LH1, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	PID-155	Ontology driven Sentiment Analysis in Indian Healthcare Sector <i>Anmol Chandra Singh, Harsh Pandey, Milind Srivastava, Abhilasha Sharma</i>
2.	PID-156	Segmentation of Nuclei in Microscopy Images across Varied Experimental Systems <i>Sohom Dey</i>
3.	PID-158	Transitional and parallel approach of PSO and SGO for solving optimization problems. <i>Cherie Vartika Stephen, Suresh Satapathy</i>
4.	PID-161	Remote Sensing Based Crop Identification Using Deep Learning <i>Thangadeepiga E, Alaguraja R A</i>
5.	PID-163	Three-level hierarchical classification scheme: Its application to fractal image compression technique <i>Utpal Nandi, Biswajit Laya, Anudyoti Ghorai, Moiranthem Marjit Singh</i>
6.	PID-164	Prediction of POS tagging for Unknown words for specific Hindi and Marathi language <i>Kirti Chiplunkar, Meghana Kharche, Tejaswini Chaudhari, Saurabh Shalingram, Suresh Limkar</i>
7.	PID-165	Modified Multi Cohort Intelligence Algorithm with Panoptic Learning for Unconstrained Problems <i>Apoorva Shastri, Aniket Nargundkar, Anand Kulkarni</i>
8.	PID-166	Sentiment Analysis on Movie Review using Deep Learning RNN Method <i>Priya Patel, Devkishan Patel, Chandani Naik</i>
9.	PID-168	Super Sort Algorithm Using MPI And CUDA <i>Anaghashree</i>
10.	PID-171	Significance of Network Properties of Function Words in Author Attribution <i>Sarig aRaj, Kannan B, Jagathyraj V P</i>
11.	PID-173	Performance analysis of Periodic Defected ground structure for CPW fed Microstrip antenna <i>Rajshri C Mahajan</i>
12.	PID-175	Energy Aware Task Consolidation in Fog Computing Environment <i>Satyabrata Rout, Sudhansu Shekhar Patra, Jnyana Ranjan Mohanty, Rabindra K Barik, Rakesh K Lenka</i>

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## Track VI

**Date: 05<sup>th</sup> January 2020**

**Time: 11.00 AM – 12.15 PM**

**Venue: LH2, LHC-C, Western Campus, NITK Surathkal**

Sl.no	PaperId	Paper Details
1.	PID-177	Modelling CPU Execution Time of AES Encryption Algorithm As Employed Over a Mobile Environment <i>Ambili Thomas and V Lakshmi Narasimhan</i>
2.	PID-178	Gradient Based Feature Extraction for Early Termination and Fast Intra Prediction Mode decision in HEVC <i>Yogitha Mukund Vaidya, Shilpa Metkar</i>
3.	PID-180	A Variance Model for Risk Assessment During Software Maintenance <i>V Lakshmi Narasimhan</i>
4.	PID-189	Cyber Attack Detection Framework for Cloud Computing. <i>Suryakant Badde, Vikash Kumar, Dr. Kakali Chatterjee, Dr. Ditipriya Sinha</i>
5.	PID-191	Benchmarking Semantic, Centroid and Graph based approaches for Multi-document Summarization <i>Anumeha Agrawal, Anil George, Selvan Sunitha Ravi, Sowmya Kamath S</i>
6.	PID-195	Water Availability Prediction in Chennai City using Machine Learning <i>Bhoomika A P</i>
7.	PID-205	Field Extraction and Logo Recognition on Indian Bank Cheques using Convolution Neural Networks <i>Gopireddy Vishnuvardhan, Vadlamani Ravi, Amiya Ranjan Mallik</i>
8.	PID-207	A Genetic Algorithm Based Medical Image Watermarking For Improving Robustness and Fidelity in Wavelet Domain <i>Balasamy Krishnasamy, M Balakrishnan, Arockia Christopher</i>
9.	PID-208	Developing Dialog Manager in Chatbots via Hybrid Deep Learning Architectures <i>Basit Ali, Vadlamani Ravi</i>
10.	PID-212	A Regularization based Feature Scoring Criterion on Candidate Genetic Marker Selection of Sporadic Motor Neuron Disease <i>Karthik Sekaran, Sudha M</i>
11.	PID-217	A study for ANN model for spam classification. <i>Shreyasi Sinha, Isha Ghosh, Suresh Chandra Satapathy</i>
12.	PID-218	Automated Synthesis of Memristor Crossbars using Deep Neural Networks <i>Dwaipayan Chakraborty, Andy Michel, Jodh Pannu, Sunny Raj, Suresh Satapathy, Steven Fernandes, Sumit K. Jha</i>

## SPECIAL SESSIONS

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### Special Session Track I - Session 1

**Healthcare Analytics and Language Processing (HeAL)**

**Date: 04<sup>th</sup> January 2020**

**Time: 1.30 PM – 3.00 PM**

**Venue: LH1, LHC-C, Western Campus, NITK Surathkal**

Sl.no	PaperId	Paper Details
1.	HeAL-54	Fingerspelling identification for Chinese sign language via wavelet entropy and kernel support vector machine <i>Zhaosong Zhu, Miaoxian Zhang, Xianwei Jiang</i>
2.	HeAL-60	Clustering Diagnostic Codes: Exploratory Machine Learning Approach for preventive care of Chronic Diseases <i>Mohan Kumar K N, S. Sampath, Mohammed Imran, Pradeep N</i>
3.	HeAL-63	NormCG: A Novel Deep Learning Model for Medical Entity Linking <i>JingChi Jiang</i>
4.	HeAL-64	A Hybrid Model for Clinical Concept Normalization <i>JingChi Jiang</i>
5.	HeAL-66	Classification of text documents of an electronic archive based on an ontological model <i>Vadim Moshkin, Anton Zarubin, Albina Koval</i>
6.	HeAL-67	Influence of Followers on Twitter Sentiments about Rare Disease Medications <i>Abhinav Choudhury, Shruti Kaushik, Varun Dutt</i>
7.	HeAL-69	Pulmonary Nodule Detection and False Acceptance Reduction: Review <i>Sheetal U. Pawar, Babasaheb G. Patil</i>
8.	HeAL-71	Leveraging Deep Learning Approaches for Patient Case Similarity Evaluation <i>Nachiket Naganure, Ashwin Nayak U, Sowmya Kamath S</i>
9.	HeAL-72	RUSDataBoost-IM: Improving Classification Performance in Imbalanced Data <i>Satyam Maheshwari, R. C. Jain, R. S. Jadon</i>
10.	HeAL-74	Performance Enhancement of Gene Mention Tagging using Deep Learning and Biomedical Named Entity Recognition <i>Ashutosh Kumar, Aakanksha Sharaff</i>

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### Special Session Track I - Session 2

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

Date: 04<sup>th</sup> January 2020

Time: 3.15 PM – 4.45 PM

Venue: LH1, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	ETCDL-1	Efficient Resource Scheduling using Modified Particle Swarm Optimization in Fog Computing <i>Sonica Pauline Mavidza, Dr. Sumathy. S</i>
2.	ETCDL-2	Training time reduction in transfer learning for a similar dataset Using Deep learning <i>Ekansh Gayakwad, Prabhu J, Vijay Anand R, Sandeep Kumar M R</i>
3.	ETCDL-3	A Novel Model Object Oriented Approach to the Software Design <i>Rahul Yadav, Prabhu J, Vikrant Singh</i>
4.	ETCDL-4	An Efficient Filter Based Feature Subset Selection for High Dimensional Microarray Data Classification <i>D.M. Deepak Raj</i>
5.	ETCDL-5	A Study on Preventing DDOS Flooding Attacks by Dynamic Path Identifiers <i>Gopichand G</i>
6.	ETCDL-6	Efficiently Combining Tweet Content and Social Interactions to Enhance Stress Recognition Performance <i>P. Neelakantan, Somula Ramasubbareddy</i>
7.	ETCDL-7	Optimal Energy Distribution In Smart Grid <i>Somula Ramasubba Reddy</i>
8.	ETCDL-8	Robust Automation Testing tool for GUI applications in Agile world-Faster to Market <i>Madhu Dande, Somula Ramasubbareddy</i>
9.	ETCDL-9	Storage Optimization using File Compression Techniques for Big Data <i>T. Aditya Sai Srinivas, Somula Ramasubbareddy, K. Govinda, C. Pavan Kumar</i>
10.	ETCDL-10	Statistical Granular Framework Towards Dealing Inconsistent Scenarios for Parkinson,Äôs Disease Classification Big Data <i>D. Saidulu Dr. R. Sasikala</i>
11.	ETCDL-11	Estimation of sediment load using Adaptive Neuro Fuzzy Inference System at Indus river basin, India <i>Nihar Ranjan Mohanta Paresh Biswal, Senapati Suman Kumari, Sandeep Samantaray, Abinash Sahoo</i>
12.	ETCDL-12	Efficiency of River flow prediction in river using Wavelet-CANFIS: A case study <i>NiharRanjan Mohanta, Niharika Patel, Kamaldeep Beck, Sandeep Samantaray Abinash Sahoo</i>

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### Special Session Track II - Session 1

Recent Trends in Machine Learning using IoT (RTML)

Date: 04<sup>th</sup> January 2020

Time: 1.30 PM – 3.00 PM

Venue: LH2, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	FICTA-01	Customer Support Chatbot using Machine Learning <i>R. Madana Mohana, Nagarjuna Pitty, Lalitha Surya Kumari</i>
2.	FICTA-02	Prediction of Diabetes Using Internet of Things and Decision Trees: SLDPS <i>Dr C Kishor Kumar Reddy</i>
3.	FICTA-03	Review Paper on Fourth Industrial Revolution and its Impact on Humans <i>D Srija Harshika</i>
4.	FICTA-05	Edge Detection CANNY Algorithm using Adaptive Threshold Technique <i>Ojashwini R N, Dr. R Gangadhar Reddy, Rani R N, Pruthvija B</i>
5.	FICTA-06	FASHION EXPRESS- All time memory app <i>V.Sai Deepa Reddy</i>
6.	FICTA-07	Local production of sustainable electricity from domestic wet waste in India <i>P. Sahithi Reddy, M. Goda Sreya , R. Nithya Reddy</i>
7.	FICTA-09	GPS Tracking and Level Analysis of River Water Flow <i>Pasham Akshatha Sai, Tandra Hyde Celestia, Kasturi Nischitha</i>
8.	FICTA-10	Machine learning approach to analyze polluted air <i>Shruthi behera, Sangapu likitha, Ashoka deepthi manukonda</i>
9.	FICTA-11	Ensuring Data Privacy using Machine Learning for Responsible Data Science <i>Millena Debaprada Jen, Sunil Samanta Singhar, Bhabendu Kumar Mohanta, Somula Ramasubbareddy</i>
10.	FICTA-12	An IoT Based Wearable Device for Healthcare Monitoring <i>Julian J, R Kavitha, Joy Rakesh Y</i>
11.	FICTA-13	Human Activity Recognition Using Wearable Sensors <i>Joy Rakesh Y, R Kavitha, Julian J</i>

## SPECIAL SESSIONS

**Eighth International Conference on Frontiers of Intelligent Computing : Theory and Applications**

**(FICTA 2020)**

**January 4-5, 2020**



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### **Special Session Track II - Session 2**

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

**Date: 04<sup>th</sup> January 2020**

**Time: 3.00 PM - 4.45 PM**

**Venue: LH2, LHC-C, Western Campus, NITK Surathkal**

<b>Sl.no</b>	<b>PaperId</b>	<b>Paper Details</b>
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 <i>Krishnendu C S, Sowmya V, Soman K P</i>
3.	AIML-9	Fog-based Video Surveillance System for Smart City Applications <i>Natesha B V, Ram Mohana Reddy Guddeti</i>
4.	AIML-12	Performance Improvement of Deep Residual Skip Convolution Neural Network for Atrial <i>Sanjana K, Sowmya V, Gopalakrishnan E A, Soman K P</i>
5.	AIML-18	Detection and Classification of faults in Photovoltaic system using Random Forest Algorithm <i>Sowthily C, Senthil Kumar, Brindha M</i>
6.	AIML-28	Clustering Enhanced Encoder-Decoder approach to Dimensionality Reduction and Encryption <i>Mukesh B R, Madhumitha Nara, Aditya Pai, Vivek Srinivas, Anand Kumar M</i>
7.	AIML-36	Cryptographic Algorithm Identification Using Deep Learning Techniques <i>Sandeep Pamidiparthi, Dr. Sirisha Velampalli</i>

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### Special Session Track III - Session 1

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

Date: 05<sup>th</sup> January 2020

Time: 11.00 AM - 1.30 PM

Venue: CR6, LHC-C, Western Campus, NITK Surathkal

Sl.no	PaperId	Paper Details
1.	MR-01	Mining of Cancerous Region from Brain MRI slices with Otsu's Function and DRLS Segmentation <i>Manju Jain</i>
2.	MR-02	An Automated Person Authentication System with Photo to Sketch Matching Technique <i>Reshmi P,N. Sri Madhava Raja, V Rajinikanth, Vaddi Seshagiri Rao</i>
3.	MR-03	Extraction of Leukocyte Section from Digital Microscopy Picture with Image Processing Method <i>R Dellecta Jessy Rashmi, V Rajanikanth, Suresh Chandra Satapathy, N. Sri Madhava Raja</i>
4.	MR-04	Brain MRI Examination with Varied Modality Fusion and Chan-Vese Segmentation <i>N Shalini, D Abirami, N. Sri Madhava Raja, V Rajinikanth, Vaddi Seshagiri Rao</i>
5.	MR-05	Examination of the Brain MRI Slices Corrupted with Induced Noise - A Study with SGO Algorithm <i>Pavidraa R, Preethi R, N. Sri Madhava Raja, V Rajanikanth, B. Parvatha Varthini</i>
6.	MR-06	Segmentation and Assessment of Leukocytes using Entropy Based Procedure <i>Manasi S, Ramyaa M, N. Sri Madhava Raja, V Rajanikanth, Suresh Chandra Satapathy</i>
7.	MR-07	Image Assisted Assessment of Cancer Segment from Dermoscopy Images <i>M Santhosh, R Rubin Silas Raj, N Sri Madhava Raja, V Rajanikanth, Suresh Chandra Satapathy</i>
8.	MR-08	Examination of Optic Disc Sections of Fundus Retinal images - A study with Rim-One Database <i>S Fuzail Ahmed Razeen S, Emmanuel, Sri Madhava Raja, V Rajanikanth, B Parvatha Varthini</i>
9.	MR-09	Inspection of 2D Brain MRI Slice using Watershed Algorithm <i>HAriharan D, Hemachandar S, N. Sri Madhava Raja, V Rajanikanth, K Sundaravadivu</i>
10.	MR-10	Extraction of Cancer Section from 2D Breast MRI Slice using Brain Strom Optimization <i>R Elanthirayan, K Sakeenathul Kubra, V, N. Sri Madhava Raja, V Rajanikanth, Suresh Chandra Satapathy</i>
11.	MR-11	Air quality prediction using Time Series Analysis <i>B.Senthil Kumar</i>
12.	MR-12	A Comprehensive Survey on Down Syndrome Detection in Fetus Using Modern Technologies <i>Megha I, Vyshnavi Kowshik S, Sadia Ali, Vindhya P Malagi</i>