ICRTAC-AIT2020: 3ʳᵈ International Conference on Recent Trends in Advanced Computing – Artificial Intelligence and Technology-AIT-2020

Technical Sessions

Day 1 : 17-12-2020   **Time: 14:00 – 15:30 IST**

Track : T1: Deep Learning/Machine Learning/Neural Networks
Session Chairs: 1. Dr. Shridevi S   2.Dr. Nachiyappan. S
Moderator/Buffer: Dr.Shola Usha Rani / Dr. Hepsiba Mabel V

S.No.	Paper ID	Paper details	Time*	Authors name
1	17	Prediction of In-Cylinder Swirl in a Compression Ignition Engine with Vortex Tube using Artificial and Recurrent Neural Networks	14:00 – 14:15	Manimaran Renganathan
2	139	Identifying Mood in Music using Deep Learning	14:16-14:30	ShikhaRani, ManojKaushik, VrindaYadav
3	55	Future Frame Prediction Using Deep Learning	14:31 – 14:45	Siddharth Itagi, Sinchana Gowda , Tanmaya Udupa and Shylaja S
4	57	A study on the repercussions of the COVID-19 pandemic in the mental health of the common public: Machine Learning Approach	14:46-15:00	Anusha Jayasimhan, Preetiha Jayashanker, Charanya SK and Krithika K
5	7	Design of Automatic Credit Card Approval System Using Machine Learning	15:01-15:15	Hemkiran S, Sudha Sadasivam G, Prasanna Rahavendra A, Anjhanna A K

* -10 mins for presentation and 5 mins for Query

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Technical Sessions

Day 1 : 17-12-2020   **Time: 14:00 – 15:30 IST**

Track : T2: Deep Learning/Machine Learning/Neural Networks
Session Chairs : 1.Dr. Syed Ibrahim S P   2. Dr. Kumar R
Moderator/Buffer: Dr.Vergin Raja Sarabin/Dr. Rajarajeswari S

S.No.	Paper ID	Paper details	Time*	Authors Name
1	65	Recognition and classification of stone inscription character using Artificial Neural Network	14:00 – 14:15	Durga Devi K and Uma Maheswari P
2	76	PlantBuddy: An Android Based Mobile Application for Plant Disease Detection using Deep Convolutional Neural Network	14:16- 14:30	Saiful Islam Rimon,Md. Rakibul Islam , AshimDey and Annesha Das
3	125	Person Re-identification using Deep Learning with Mask-RCNN	14:46- 15:00	Aditya Kshatriya, Nisha V.M and Sajidha S.A
4	59	Machine Learning Based Categorization of Brain Tumor Using Image Processing	15:01- 15:15	Muralidhar Appalaraju, Arun Kumar Sivaraman, Rajiv Vincent, Ilakiyaselvan N, Rajesh M, Uma Maheshwari
5	13	Automatic Road Surface Crack Detection using Deep Learning Techniques	15:16- 15:30	Aravindkumar S, varalakshmi Chindhu Alagappan

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Technical Sessions

Day 1 : 17-12-2020   **Time: 14:00 – 15:30 IST**

Track : T3: Deep Learning/Machine Learning/Neural Networks
Session Chairs : 1.Dr. Pattabiraman V   2. Dr. Saleena B
Moderator/Buffer: Dr.Tulasi Prasad Sariki/Dr.Suganya G

S.No.	Paper ID	Paper details	Time*	Authors Name
1	33	Speech Audio Cardinal Emotion Sentiment Detection and Prediction Using Deep Learning Approach	14:00 – 14:15	Sachit Bhardwaj and Akhilesh Kumar Sharma
2	53	Machine Learning Based Smart Surveillance And Intrusion Detection System For National Geographic Borders	14:16-14:30	Mrinal Sharma, CRS Kumar
3	107	Human Emotion Detection using Convolutional Neural Networks with Hyperparameter Tuning	14:31 – 14:45	Aparna Chaparala
4	141	Consanguinity in Risk Assessment of Retinoblastoma Using Machine Learning	14:46-15:00	Ashwini S and R Minu
5	142	Detecting Human Emotions through Physiological Signals using Machine Learning	15:01-15:15	R. Balamurali, Priyansh Brannen Lall, Krati Taneja and Gautam Krishna4

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Day 1 : 17-12-2020   **Time: 15:30 – 17:00 IST**

Track : T4:Machine Learning/ Cloud Computing
Session Chairs : 1. Dr. Nagaraj S V   2. Dr. Sajida S A
Moderator/Buffer: Dr.SathyaRajaSekaran/Dr.Karmel A

S.No.	Paper ID	Paper details	Time*	Authors Name
1	15	Hand signs recognition from cell-phone camera captured images for deaf-mute persons	15:30 – 15:45	Asif Irfanullah Masum and Ayatullah Faruk Mollah
2	26	Survey Paper: Determining the performance of Machine learning Techniques in Healthcare	15:46 – 16:00	Kajal Khatri
3	37	Comparative Investigation on A coustic Attributes of Healthy Young Adults	16:01 – 16:15	V. Prarthana Karunaimathi D. Gladis D. Balakrishnan
4	47	Classification of Malfunctioning in Homosapiens Fetus Lungs based on Congenital Genetic Disorder	16:16- 16:30	K.Vimala, Dr.D.Usha
5	83	Skin Cancer Prediction Using Machine Learning Algorithms	15:16- 15:30	Arun Raj Lakshminarayanan Bhuvaneshwari. R, Bhuvaneshwari. S ,Saravanan Parthasarathy, Selvaprabu Jeganathan , K. Martin Sagayam

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Technical Sessions

Day 1 : 17-12-2020   **Time: 15:30 – 17:00 IST**

Track : T5:Artificial Intelligence/Image Processing
Session Chairs : 1. Dr. Bharadwaja Kumar G   2. Dr.Malathi G
Moderator/Buffer: Dr.Amitkumar Tyagi/Dr.Vijayalakshmi

S.No.	Paper ID	Paper details	Time*	Authors Name
1	52	A Fast Method for Retinal Disease Classification from OCT Images Using Depthwise Separable Convolution	15:30 – 15:45	Meenu Mohan S. and Aji S.
2	56	Evaluation of Propofol General Anesthesia Intravenous Algorithm for Closed Loop Drug Delivery System	15:46 – 16:00	Shola UshaRani
3	104	Diabetic Retinopathy Diagnosis with InceptionResNetV2, Xception and EfficientNetB3	16:01 – 16:15	Mukkesh Ganesh, Sanjana Dulam, Pattabiraman Venkatasubbu
4	130	A Smart Device To Identify The Pandemic Of Chronic Obstructive Pulmonary Disease	16:16-16:30	Bethanney Janney.J , T.Sudhakar , G.UmaShankar1 Caroline Chriselda.L , Chandana.H
5	137	Design Of Infusion Device For Disable Patients	16:31-16:45	Umashankar G, Akshya. V, Sindu Divakaran, Bethanney Janney, Sudhakar T, Premkumar J, Krishnakumar. S
6	121	Implementation of Pupil Dilation in AI Based Emotion Recognition	16:46-17:00	K S Maanav Charan, Alenkar K Aswin, K S Ackshaya Varshini and SKirthica

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Technical Sessions

Day 1 : 17-12-2020   **Time: 15:30 – 17:00 IST**

Track : T6:COVID-19/IMAGE PROCESSING
Session Chairs : 1. Dr. Rajesh Kanna B   2.Dr. Nisha V
Moderator/Buffer: Dr.R.Jothi/Dr.Shyamala L

S.No.	Paper ID	Paper details	Time*	Authors Name
1	136	Intelligent Forecasting Strategy for COVID-19 Pandemic Trend in India: A Statistical Approach	15:30 – 15:45	Siddharth Nair , Ganesan Ckm, Varsha R,Sankhasubhra Ghosal , Vergin M,L. Jani Anbarasi
2	160	Covid-19 Pandemic Review: Future Directions On Detection Of Coronavirus Using Imaging Modalities And Computational Intelligence	15:46 – 16:00	Ch.Jayalakshmi-, , Kumar.R1 , Dhanalakshmi Samiappan , G.N.Swamy
3	29	Depth Comparison of objects in 2D images using Mask RCNN	16:01 – 16:15	Himanshu Singh and Dr. Kirubanand VB
4	31	Ensemble Methods With Bidirectional Feature Elimination For Prediction And Analysis Of Employee Attrition Rate During Covid-19 Pandemic	16:16-16:30	Yash Mate, Atharva Potdar , Priya RL
5	36	An incremental productive Super Resolution of Images Using GAN method	16:31-16:45	Darshana A Naik , Abhinandan Jha, Atul Rustagi, Kanwaldeep Singh Saluja
6	82	Hierarchical Attention based Video Captioning using the Key Frames	16:46-17:00	M Hemalatha, P Karthik

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Day 2 : 18-12-2020   **Time: 14:00-15:30 IST**

Track : T7:IMAGE PROCESSING
Session Chairs : 1. Dr. Viswanathan V   2. Dr. B V A N S S Prabhakar Rao
Moderator/Buffer: Dr.Shola UshaRani/Dr.Rukmani P

S.No.	Paper ID	Paper details	Time*	Authors Name
1	102	MADLI : Mixture of various automated deep learning classification for paddy crop images	14:00 – 14:15	Srilakshmi A Madhumitha K ,Geetha K
2	149	Retinal Vessel Segmentation and Disc Detection from Color Fundus Images using Inception Module and Residual Connection for Glaucoma Analysis	14:16-14:30	Mithun Kumar Kar and Malaya Kumar Nath and Madhusudhan Mishra
3	161	Survey on fusion of audio-visual information for Multimedia event Recognition	14:31 – 14:45	S. L. Jayalakshmi1, S. L. Jothilakshmi ,V. G. Ranjith, and Siddharth Jain
4	19	Recent trends and study on perspective crowd counting in smart environments	14:46-15:00	Vasupalli Jaswanth , Arun Reddy Yeduguru , Vura Seetha Manoj , Deepak K And Chandrakala S
5	32	Face Recognition With Mask Using MTCNN And FaceNet	15:01-15:15	Abhishek Sunil Tiwari, Prajul Gupta, Aanya Jain,Hari Vilas Panjwani, Malathi G

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Technical Sessions

Day 2 : 18-12-2020   **Time: 14:00-15:30 IST**

Track : T8: INTERNET OF THINGS
Session Chairs : 1. Dr.Jenila Livingston L M   2.   Dr.Pradeep Kumar T.S
Moderator/Buffer: Dr.Vergin RajaSarabin/Dr.Maheswari S

S.No.	Paper ID	Paper details	Time*	Authors Name
1	98	IoT based Sheep Guarding System in Indian Scenario	14:00 – 14:15	Sudheer Kumar Nagothu and Chilaka Jayaram
2	101	Comparative Analysis of Wireless Communication Technologies for IoT Applications	14:16-14:30	B Shilpa , Radha R and Pavani Movva
3	119	IoT Based Auto-Disinfectant Sprinkler System for Large Enclosed Space	14:31 – 14:45	K S AckshayaVarshini, T Aghil, G Anuradha, Y AshwinRamanathan, G Suganya and K Karunamurthy
4	122	A Generalized Comprehensive Security Architecture Framework for IoT Applications against Cyber-Attacks	14:46-15:00	Nakkeeran M and Senthilkumar Mathi
5	78	Developing a Cyber-physical laboratory using Internet of Things	15:01-15:15	Ankush Handa and Sofana Reka S
6	87	Arduino board based wireless controlled Seed Sowing Robot	15:16-15:30	M Sugadev , T Ravi Anugula Venkatesh Kumar , and T Ilayaraja

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Technical Sessions

Day 2 : 18-12-2020   **Time: 14:00-15:30 IST**

Track : T9:Communication Technologies,Microcontroller

Session Chairs : 1. Dr. Asha S   2. Dr.Maheswari R
Moderator/Buffer : Dr.TulasiPrasadSariki/Dr.Jayaram B

S.No.	Paper ID	Paper details	Time*	Authors Name
1	116	An Optimal Steering Vector Generation using Chaotic Binary Crow Search Algorithm for MIMO System	14:00 – 14:15	P.Sekhar Babu , P.V. Naganjaneyulu and Dr K.Satya Prasad
2	8	A MIMO based Compatible Fuzzy Logic Controller for DFIG based Wind Turbine Generator	14:16-14:30	K. Sudarsana Reddy, R. Mahalakshmi
3	10	Robotic Process Automation	14:31 – 14:45	Raj Choudhary , Karmel A
4	60	Feature explanation algorithms for outliers	14:46-15:00	Deepak Kumar Rakesh and Prasanta K Jana
5	151	Human Emotion Detection through Hybrid Approach	15:01-15:15	Krishna Mohan Kudiri and Hitham Seddiq Alhassan Alhussian

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Day 2 : 18-12-2020   **Time: 15:00-17:00   IST**

Track : T10:SOFTWARE TECHNOLOGIES/NETWORKING /BIGDATA/COMPUTER VISION
Session Chairs : 1. Dr. Subbulakshmi T   2. Dr. Sivabalakrishnan M
Moderator /Buffer: Dr.SathyaRajaSekaran/Dr.Sweetlin Hemalatha C

S.No.	Paper ID	Paper details	Time*	Authors Name
1	40	Constraint-based Parallel Clustering with Optimized Feature Selection for SDN-Enabled Traffic Anomaly Detection and Mitigation	15:30 – 15:45	T. Vadivu and B. Sumathi
2	54	Real-Time Big Data Analysis using web scraping in Apache Spark Environment: Case Study - Mobile Data Analysis from Flipkart	15:46 – 16:00	Pushpita Ganguly , Giriraj Parihar and M.Sivagami
3	66	An Enhanced Computer Vision Algorithm for Apple Fruit Yield Estimation in an Orchard	16:01 – 16:15	R. Thendral D. Stalin David
4	135	A Novel Approach for Initializing Centroid at K-Means Clustering in Paradigm of Computational Geometry	16:16-16:30	Tuhin Kr. Biswas and Kinsuk Giri
5	128	Efficient Algorithm for CSP Selection Based on Three Level Architecture	16:31-16:45	Abdul Quadir Md , Prassanna J, Christy Jackson J, Sabireen H , Gagan Gupta

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Day 2 : 18-12-2020   **Time: 15:00-17:00 IST**

Track : T11:INFORMATION/DATA PROCESSING/BIGDATA
Session Chairs: 1.   Dr. Ganesan R   2.   Dr. Renuka Devi
Moderator/Buffer: Dr.AmitkumarTyagi/Dr.Sandhya

S.No.	Paper ID	Paper details	Time*	Authors Name
1	84	Review on technological advancement and textual data management algorithms in NLP and CBIR systems	15:30 – 15:45	Mrs. Diviya M and Dr. Karmel A
2	92	Information Retrieval using n-grams	15:46 – 16:00	Mansi Sood , Harmeet Kaur and Jaya Gera
3	93	An Automated DSS-Miner for Intuitionistic Trapezoidal Fuzzy MAGDM Modeling with Constraint Matrix Games	16:01 – 16:15	P. John Robinson , Deng-Feng Li and S. Samuel Nirmalsingh
4	95	Disaster Mitigation using a Peer-to-Peer Near Sound Data Transfer System	16:16-16:30	Padma Priya R , Ritumbhara Bhatnagar and Shaaran Lakshminarayanan
5	162	A Hybrid Ensemble Prediction Method for Analyzing Air Quality Data	16:31-16:45	Apeksha Aggarwal and Ajay Agarwal
6	124	Reversible Information Hiding And Bio-Inspired Optimization: A Review	16:46-17:00	Amishi Mahesh Kapadia and P. Nithyanandam

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Day 2 : 18-12-2020   **Time: 15:00-17:00 IST**

Track : T12:INFORMATION/DATA PROCESSING/BIG DATA
Session Chairs : 1. Dr. Maheswari N   2. Dr.Umamaheswari E
Moderator /Buffer: Dr.R.Jothi/ Dr.Kanchana Devi V

S.No.	Paper ID	Paper details	Time*	Authors Name
1	21	Short Term Load Forecasting Using Random Forest with Entropy Based Feature Selection	15:30 – 15:45	Siva Sankari Subbiah and Jayakumar Chinnappan
2	44	Predictive Policing – Are Ensemble Methods more accurate than Regression Methods?	15:46 – 16:00	Ronit Kathuria and Vinish Kathuria
3	123	Compassion Detection from Text: A Comparative Analysis using BERT, ULMFiT and DeepMoji	16:01 – 16:15	Gourav Awasthi , Rajesh Sabapathy , Chirag Mittal and Nilanjan Chattopadhyay
4	153	Computation of Biconditional Cordial Labeling of Super Subdivision of Graphs	16:16-16:30	M. Kalaimathi ,B. J. Balamurugan , JonnalagaddaVenkateswara Rao
5	97	Rainfall based Crop Selection Model using MapReduce based Hybrid Holt Winters Algorithm	16:46-17:00	V. Kaleeswaran, S. Dhamodharavadhani, R. Rathipriya

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