IEEE CICT 2019 Technical Sessions

TS-2 (SIVP) Date - December 06, 2019 Time - 04:45 PM - 6:15 PM Venue: 5055

Session Chair - Dr. Pritee Khanna (IIITDM Jabalpur), Prof. Suneeta Agrawal (MNNIT)

Paper ID	Presenter	Organization	Title	Authors
46	Ojas Ramwala	NIT,Surat	Optimizing Driver Assistance Systems for Real-Time performance on Resource Constrained GPUs	Ojas Ramwala, Dr. Chirag N. Paunwala and Mita Paunwala
55	Rakshita Karmawat	PDPM Indian Institute of Information and Technology, Design and Manufacturing, Jabalpur	Glaucoma Detection using Fuzzy C-means Optic Cup Segmentation and Feature Classification	Rakshita Karmawat, Neha Gour and Pritee Khanna
66	Ayush Mandloi	ABV-Indian Institute of Information Technology and Management	Ultrawideband printed monopole antenna for X band and 5G applications	Ayush Mandloi, Ushnesha Daripa, Mukta Sharma and Mahua Bhattacharya
68	Kiruthika S	IIITDM Kancheepuram	A Machine Learning Algorithm for No Reference Image Quality Assessment using Non-Subsampled Contourlet and Curvelet Transform	Kiruthika S, Masilamani V.
79	Bulla Rajesh	Indian Institute of Information Technology, Allahabad	DCT-CompCNN: A Novel Image Classification Network Using JPEG Compressed DCT Coefficients	Bulla Rajesh, Mohammed Javed, Ratnesh and Shubham Srivastava
89	Sudharson S.	Indian Institute of Information Technology Design and Manufacturing	Abnormality classification in the kidney ultrasound images using singular value decomposition features	Sudharson S. and Priyanka Kokil
101	Mohit Dhaka	BHARATI VIDHYAPEETHS COLLEGE OF ENGINEERING, NEW DELHI	Classification of arrhythmia using time-domain features and support vector machine	Mohit Dhaka and Porus Khetarpal
122	Neelam Dwivedi	MNNIT Allahabad, Prayagraj	Weapon Classification using Deep Convolutional Neural Network	Neelam Dwivedi, Dushyant Kumar Singh and Dharmender Singh Kushwaha
62	Pawan Kumar Mall	Madan Mohan Malaviya University of Technology, Gorakhpur	GLCM Based Feature Extraction and Medical X-RAY Image Classification using Machine Learning Techniques	Pawan Kumar Mall, P K Singh and Divakar Yadav

TS-3 (WCIT) Date - December 06, 2019 Time - 04:45 PM - 6:15 PM Venue: 5054

Session Chair - Dr. Neetesh Purohit (IIIT Allahabad), Dr. Matadeen Bansal(IIITDM Gwalior)

Paper ID	Presenter	Organization	Title	Authors
21	Anmol Tigga	NIT Puducherry	Towards a Vehicle's behavior monitoring and Trust Computation for VANETs	Anmol Tigga and Arun Raj Kumar Parthiban
26	Shikha Maurya	PDPM-IIITDM JABALPUR	On Robust Precoder Design for Energy-Efficient MIMO-Cognitive Relay Networks	Shikha Maurya and Matadeen Bansal
31	Palash Kundu	Jadavpur University	Improving Spectral Efficiency for Device-to-Device Data Offloading in Underlay Cellular Networks	Palash Kundu, Mohit Mahata, Manoj Rana and Bhaskar Sardar
51	Varun Shukla	PSIT	An Authenticated and Secure Electronic Health Record System	Varun Shukla, Anchal Yadav and Ankit Mishra
56	Rahul Prakash	Bipin tripathi Kumaon Institute of Technology, Dwarahat Almora, Uttarakhand	Optimized Hybrid Clustered Protocol for IoT Heterogeneous Wireless Sensor Networks	Rahul Prakash and Parul Kansal
113	Anubhav Shivhare	Indian Institute of Information Technology, Allahabad	Spatial Correlation Based Device Level Clustering for IoT	Anubhav Shivhare, Manish Kumar Maurya, Vatsal Saglani, Manish Kumar and Ajay Kumar Bharti
150	Arti Gupta	Indian institute of information Technology, Allahabad	Reinforcement learning based energy management in wireless body area network: A Review	Arti Gupta, Manish Kumar Maurya and Vijay Kumar Chaurasiya
171	Gagandeep Kaur	ABV-Indian Institute of Information Technology and Management, Gwalior	Energy Conservation Schemes for Wireless Sensor Networks:Survey	Gagandeep Kaur, Mahua Bhattacharya and Prasenjit Chanak
36	Nidhi Singh	Madan Mohan Malaviya University of Technology, Gorakhpur	Efficient Method for Data Synchronization in Mobile Database	Nidhi Singh and Muzammil Hasan

TS-4 (CI&ML) Date - December 06, 2019 Time - 04:45PM-6:15PM Venue: 5007

Session Chair - Dr. K. P. Singh, Dr. Vrijendra Singh(IIITA)

Paper ID	Presenter	Organization	Title	Authors
42	Preeti Singh	MMTU, Gorakhpur, India	AN INTRODUCTION AND REVIEW ON MACHINE LEARNING APPLICATIONS IN MEDICINE AND HEALTH CARE	Preeti Singh, S. P. Singh and D. S. Singh
58	Shweta Loonkar	Mukesh Patel School of Technology Management & Engineering, NMIMS University, Mumbai	DEFECT CLASSIFICATION FOR SILK FABRIC BASED ON FOUR DFT SECTOR FEATURES	Shweta Loonkar and Dhirendra S
80	Swarup Padhy	Atal Bihari Vajpayee Indian Institute of Information Technology and Management (ABVIIITM) Gwalior	Emergency Signal Classification for the Hearing Impaired using Multi-channel Convolutional Neural Network Architecture	Swarup Padhy, Juhi Tiwari, Shivam Rathore and Neetesh Kumar

Paper ID	Presenter	Organization	Title	Authors
88	Dr Somesh Kumar	ABV-Indian Institute of Information Technology & Management Gwalior	Malaria Parasite Recognition in Thin Blood Smear Images using Squeeze and Excitation Networks	Dr Somesh Kumar, Shivendra Pratap Singh, Prakhar Bansal and Pankaj Srivastava
91	Manpreet Kaur	punjabi university	DEVELOPMENT OF AN IMPROVED TOMATO LEAF DISEASE DETECTION AND CLASSIFICATION METHOD	Manpreet Kaur
107	Nairit Banerjee	Indian Institute Of Information Technology, Allahabad	Mitosis Detection Using Image Segmentation and Object Detection	Nairit Banerjee, Anmol Singh Sethi, Manavdeep Singh, Srisha Anagh G, Upendra Badnena Svvr, Artus Krohn-Grimberghe and Ranjana Vyas
120	Anshul Sharma	Indian Institute of technology (BHU)	Early classification of time series based on uncertainty measure	Anshul Sharma and Sanjay Kumar Singh
148	Ashutosh Chandra	Indian Institute of Information Technology, Allahabad	Regularised Encoder-Decoder Architecture for Anomaly Detection in ECG Time Signals	Ashutosh Chandra and Rahul Kala
157	Upendra Pratap Singh	Allahabad	Zero Shot Learning using Active Learning	Kumar and Krishna Pratap Singh
72	Shalini Perera	Sri Lanka Institute of Information Technology	Supply and Demand Planning Of Electricity using Machine Learning	Shalini Perera, Sathya Dissanayake, Sehan Desilva, Dinithi Fernando and Windhya Rankothge
47	Kaustubh Chakradeo	Engineering		Kaustubh Chakradeo, Sanyog Vyawahare, Pranav Pawar

TS-5 (SIVP)   Date - December 07, 2019   Time - 11:45 AM - 1:30 PM   Venue: 5055

Session Chair - Prof. S.K. Singh(IITBHU), Dr. Shivram Dubey (IIIT Sri)

Paper ID	Presenter	Organization	Title	Authors
123	Sameeksha Shrivastava	Jaypee University of Engineering and Technology, Guna, M.P.	Partitioned Based Image Segmentation	Sameeksha Shrivastava and Ajay Kumar
125	Mohd. Aquib Ansari	MNNIT ALLAHABAD, PRAYAGRAJ	An Approach for Human Machine Interaction using Dynamic Hand Gesture Recognition	Mohd. Aquib Ansari, Dushyant Kumar Singh
135	Yash Srivastava	Indian Institute of Information Technology, Sri City, Chittoor, Andhra Pradesh, India	PSNet: Parametric Sigmoid Norm Based CNN for Face Recognition	Yash Srivastava, Vaishnav Murli and Shiv Ram Dubey
151	Madhuchhanda Dasgupta	Indian Institute of Information Technology Kalyani	Automated Helmet Detection for Multiple Motorcycle Riders using CNN	Madhuchhanda Dasgupta, Oishila Bandyopadhyay and Sanjay Chatterji
158	Kalpana Singh	Motilal Nehru National Institute of Technology, ALLAHABAD	An Enhanced Criterion for Induced H inf. Stability of Discrete-time Systems with Time-varying Delay and External Disturbance	Kalpana Singh, Dinesh Chaurasia and V. Krishna Rao Kandanvli
162	Mahesh K Singh	National Inatitute of Technology Delhi	Fusion of Heterogeneous Range Sensors Dataset for High Fidelity Surface Generation	Mahesh K Singh
166	Arthi R.	IIITDM Kancheepuram	An Observer based FLL to Estimate the Grid Parameters of Three Phase Systems	Arthi R., Arun K and Selvajyothi K
140	K V Sai Vineeth	Indian Institute of Information Technology, Sri City, Chittoor, Andhra Pradesh, India	LEDCOM: A Novel and Efficient LED Based Communication for Precision Agriculture	K V Sai Vineeth, Raja Vara Prasad and Shiv Ram Dubey
74	Shekar B H	Mangalore University, Karnataka.	Stacked Filter Bank based descriptor for Human Action Recognition from Depth Sequences	Shekar B H and Rathnakara Shetty P

TS-6 (NIS)   Date - December 07, 2019   Time - 11:45 AM-1:30 PM   Venue: 5006

Session Chair - Dr. Venkatesan (IIIT Allahabad) and Dr. Neeraj Tyagi (MNNIT)

Paper ID	Presenter	Organization	Title	Authors
35	Srikar Paida	Pandit Dwarka Prasad Mishra, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur	Certificate-less Public Key Encryption For Secure e-Healthcare Systems	Srikar Paida, Mayank K. Aditia, Fahiem Altaf and Soumyadev Maity
38	Nitish Andola	Indian Institute of Information Technology, Allahabad	SHEMB:A secure approach for healthcare management system using blockchain	Nitish Andola, Raghav Gahlot, Sourabh Prakash, Venkatesan Subramanian and Shekhar Verma
73	Shailendra Tomar	Raja Ramanna Center for Advanced Technology	Investigations on Equal Cost Multi Path Feature in Dynamic Routing Protocols in IPv6 Networks	Shailendra Tomar, Anil Rawat, Prakash D Vyavahare and Sanjiv Tokekar
75	Raghav Gahlot	Indian Institute of Information Technology, Allahabad	Tamper-Proof Certificate Management System	Raghav Gahlot, Nitish Andola, S. Venkatesan and Shekhar Verma
82	Pratyush Ranjan	Atal Bihari Vajpayee-Indian Institute of Information Technology and Management, Gwalior	Decentralised and Distributed System for Organ/Tissue Donation and Transplantation	Pratyush Ranjan, Shubhanker Srivastava, Vidit Gupta, Shashikala Tapaswi and Neetesh Kumar
108	Ankur Shukla	Norwegian University of Science and Technology, Gjøvik	Vulnerability Discovery Modelling With Vulnerability Severity	Ankur Shukla, Basel Katt and Livinus Obiora Nweke
141	Anand Joshi	University of Lucknow	A new method of multi color image encryption	Anand Joshi and Dhanesh Kumar
152	Murugesan G	St. Joseph's College of Engineering	Divisible Load Scheduling from Single Source in Distributed Heterogeneous Environments	Murugesan G and Sherin K
167	Akhilesh Panchal	IIIT-Allahabad	REHR: Residual Energy based Hybrid Routing Protocol for Wireless Sensor Networks	Akhilesh Panchal and Rajat Singh

TS-7 (CTS)   Date - December 07, 2019   Time - 04:45 PM-6:15 PM   Venue: 5006

Session Chair - Dr. Suneel Yadav (IIIT Allahabad) and Dr. Matadeen Bansal (IIITDM Jabalpur), Dr. Y. N. Singh(IITK), Dr. Arun Prakash (MNNIT)

Paper ID	Presenter	Organization	Title	Authors
14	Anoop Kumar Mishra	ABV-IIITM, Gwalior	Performance analysis of MIMO-NOMA-Based Indoor Visible Light Communication in Single Reflection Environment	Anoop Kumar Mishra and Aditya Trivedi
65	Abhishek Kumar	Indian Institute of Information Technology Allahabad	FIR Filter Realization Under the Trade-Off Between Implementation Complexity and Computation Rate	Abhishek Kumar and Suneel Yadav
67	Anshul Pandey	Indian Institute of Information Technology Allahabad	Physical Layer Security in Intervehicular Cognitive Relaying Communication Systems	Anshul Pandey and Suneel Yadav
95	Amiya Kumar Mondal	Indian Institute of Information Technology Design & Manufacturing Kancheepuram	Thinning of Concentric Circular Antenna Array Using Binary Salp Swarm Algorithm	Amiya Kumar Mondal and Prerna Saxena
102	Neha Jaiswal	Indian Institute of Information Technology Allahabad	Performance Evaluation of Non-orthogonal Multiple Access in V2V communications Over Double-Rayleigh Fading Channels	Neha Jaiswal and Neetesh Purohit
147	Abhishek Patel	PDPM IIITDM Jabalpur, Madhya Pradesh	UWB Monopole Antenna with Triple-Band Notch Rejection	Abhishek Patel and Manoj Singh Parihar
163	Soumit Chaudhury	Indian Institute of Information Technology Allahabad	Tuning of Passbands in Compact Substrate Integrated Waveguide Bandpass Filter using perturbation slot	Soumit Chaudhury, Seema Awasthi and Rajat Singh

TS-8 (CPCI+RAI)   Date - December 07, 2019   Time - 04:45 PM-6:15PM   **Venue: 5007**
Session Chair - Prof. P.K. Singh (MMMUT), Dr. Pankaj Pandey (NTNU Norway), Prof. G. C. Nandi (IIITA)

Paper ID	Presenter	Organization	Title	Authors
69	Anand Handa	C3I Center, Indian Institute of Technology, Kanpur, India	Cyber Risk Assessment of Networked Cyber Assets using Probabilistic Model Checking	Anand Handa, Subhasis Mukhopadhyay, Shankhadip Mallick, Nitesh Kumar, Sandeep K. Shukla, Remish L. Minz, Sanjana Pai Nagarmat and Ramesh Rakesh
76	Vinay Mahore	Indian Institute of Information Technology, Allahabad	Secure and Privacy Focused Electronic Health Record Management System using Permissioned Blockchain	Vinay Mahore, Priyanshi Aggarwal, Nitish Andola, Raghav Gahlot and S. Venkatesan
92	Gaganjeet Reen	IIIT Allahabad	Decentralized Patient Centric e-Health Record Management System using Blockchain	Gaganjeet Reen, Manasi Mohandas and Venkatesan S
110	Himank Goel	IIIT Allahabad	Three Phase Authentication Protocol for Smart Grid Communication	Himank Goel, Ayush Gupta, Harshit Jain, Aashutosh Khandelwal, Harsh Jain, Ayush Sinha and Om Prakash Vyas
111	Aida Akbarzadeh	Norwegian University of Science and Technology	Cyber-Physical Interdependencies in Power Plant Systems: A Review of Cyber Security Risks	Aida Akbarzadeh, Pankaj Pandey and Sokratis Katsikas
112	Sabarathinam Chockalingam	Institute for Energy Technology	Developing a Bayesian Network Framework for Root Cause Analysis of Observable Problems in Cyber-Physical Systems	Sabarathinam Chockalingam and Vikash Katta
84	Gaurav Bhardwaj	IIT ROORKEE	An Unsupervised Neural Network Approach for Inverse Kinematics Solution of Manipulator following Kalman Filter based Trajectory	Gaurav Bhardwaj, N. Sukavanam, Ruchi Panwar and R. Balasubramanian

TS-9 (CBD+CS)   Date - December 08, 2019   Time - 10:45 AM - 11:30 AM   Venue: 5054
Session Chair - Prof. Anil Kumar Singh (MNNIT Allahabad) and Dr. Manish Kumar (IIIT Allahabad), Dr. Diwakar Yadav (NIT Hamirpur)

Paper ID	Presenter	Organization	Title	Authors
39	Shweta	MADAN MOHAN MALVIYA UNIVERSITY OF TECHNOLOGY	Flash Translation Layer and its functionalities	Shweta and Pradeep Kumar Singh
53	Devesh Kumar Lal	scsit davv	Towards comparison of real time stream processing engines	Devesh Kumar Lal and Ugrasen Suman
99	Lakshya Priyadarshi	Institute of Engineering and Technology, Lucknow	Noise Analysis of Quantum Approximate Optimization Algorithm on Weighted MAX-CUT	Lakshya Priyadarshi and Utkarsh Azad
154	Nikolay Voit	Ulyanovsk state technical university	Virtual workplaces testing method on accordance with the technical task	Nikolay Voit, Semen Bochkov and Sergey Kirillov
109	Pradeep Singh	National Institute of Technology, raipur	Stacking Based approach for prediction of faulty modules	Pradeep Singh
106	Sunil Datt Sharma	Jaypee University of Information Technology, Waknaghat, H.P.	MODEL INDEPENDENT METHOD FOR ACCEPTOR SPLICE SITE PREDICTION IN DNA SEQUENCES	Sunil Datt Sharma, Sanjeev Narayan Sharma and Rajiv Saxena

TS-10 (MSD)   Date - December 08, 2019   Time - 10:45 AM-11:30 AM   Venue: 5007
Session Chair - Dr. Manish Goswami(IIITA), Dr. Mahammad Noor (IIITDMK)

Paper ID	Presenter	Organization	Title	Authors
87	Samiksha Singh	REWA ENGINEERING COLLEGE,REWA (M. P.)	ULTRA LOW POWER HIGH GAIN HIGH SPEED OTA	Samiksha Singh, Aman Singh, Akash Bahetra and Layak Yadav

	Presenter	Organization	Title	Authors
98	Tangudu Bharat Kumar	Malaviya National Institute of Technology Jaipur	Design Automation of 5-T OTA using gm/ID methodology	Tangudu Bharat Kumar, Gaurav Kumar Sharma, Arun Kishor Johar, Deepak Gupta, Sougata Kumar Kar and Dharmendar Boolchandani
138	Okikioluwa E. Oyedeji	Howard College, University of KwaZulu-	Mixed Signal Device Perspective	Okikioluwa E. Oyedeji and Viranjay M. Srivastava
142	Deepak Gupta	MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR	A Comparison of Multi Chopper Amplifiers for Capacitive MEMS Transducer	Deepak Gupta, Gaurav Sharma and Dharmendar Boolchandani
159	Vikrant Varshney	Motilal Nehru national Institute of technology Allahabad	Electronically Tunable First Order Universal Filter based on CCDDCCTA	Priyanka Singh, Vikrant Varshney, Ankur Kumar and Rajendra Kumar Nagaria
178	Pratosh K. Pal	M M M U T Gorakhpur	Impact of Channel Doping Fluctuation and Metal Gate Work Function Variation in FD-SOI MOSFET for 5nm BOX Thickness	Vikrant Varshney Ankur Kumar Rajendra K. Nagaria, Avaneesh Kumar Dubey

TS-11 PhD Symposium   Date - December 08, 2019   Time - 10.45 AM-1:30PM   Venue: 5055

Session Chair - Dr. Neetsh Purohit (IIITA), Dr. Asheesh Singh(MNNIT), Dr. Y.N. Singh(IITK), Dr. Kumar Vaibhav Srivastava(IITK), Prof. Anupam agarwal(IIITA), Prof. Uma Shankar Tiwary(IIITA)

Paper ID	Presenter	Title
201	Dr. Dheeraj Malhotra	AN INTELLIGENT APPROACH TO DESIGN A PERSONALIZED SEARCH SYSTEM USING NEXT GENERATION BIG DATA ANALYTICS
202	A.Anath	Error Analysis of Space Shift Keying Systems
203	ANIRUDDHA DEY	STUDIES ON FEATURE EXTRACTION AND FUSION TECHNIQUES FOR FACE RECOGNITION
204	Satish K. Tiwari	Estimation and Optimization of Design Parameters in Diffusive Molecular Nanonetworks
205	Priyanka Mishra	STUDY AND PERFORMANCE EVALUATION OF QUASI AND ROTATED QUASI ORTHOGONAL SPACE TIME BLOCK CODED MIMO SYSTEMS WITH ADVANCE DETECTOR SCHEME UNDER VARIOUS MODULATION TECHNIQUES
206	Nikhil Agarwal	Design of Nearly Linear Phase Infinite Impulse Response Filters using Evolutionary Techniques
207	Sudhanshu Gonge	Performance enhancement of digital watermarking techniques for security of still image
208	Chengathir Selvi	VIDEO BASED FACE RECOGNITION FOR BIOMETRIC AUTHENTICATION

TS-12 (IS&HCI+NLP)   Date - December 08, 2019   Time - 11.45 AM-1:30 PM   Venue: 5006

Session Chair - Dr. T. Pant (IIITA), Dr. M.M. Gore(MNNIT), Dr. Ashish Khare (Ald Univ)

Paper ID	Presenter	Organization	Title	Authors
48	Ashish Srivastava	MIT Academy of Engineering	Undani – A System for Enhanced Farming	Ashish Srivastava, Rahul Mahajan, Dnyandeep Sagar and Pratik Shende
126	Thirundi Perera	SLIIT	Film Shooting Scheduler	Thirundi Perera, Malith Senarath, Ravindu Viduranga, Chathuranga Wijayananda and Windhya Rankothge
133	Bhanu Pratap Singh Ba	Indian Institute of Information Technology Kalyani	Analysis of Multitasking in Divided Attention using Machine Learning	Bhanu Pratap Singh Bankoti, Chandra Shekhar Gupta, Oishila Bandyopadhyay and Mallika Banerjee
161	Ashish Singh Patel	International Institute of Information Technology – Naya Raipur	RealTime Tracking and Vehicle Monitoring in Surveillance Video	Ashish Singh Patel, O. P. Vyas and Muneendra Ojha
165	Ankita Srivastava	Motilal Nehru National Institute of Technology Allahabad	Quality-of-Service based Reliable Route Discovery using Ant Colony Optimization for VANET	Ankita Srivastava, Arun Prakash and Rajeev Tripathi
49	Sahinur Laskar	National Institute of Technology Silchar	Neural Machine Translation: English to Hindi	Sahinur Laskar, Abinash Dutta, Partha Pakray and Sivaji Bandyopadhyay
85	Mayank Shrivastava	Jaypee University of Engineering and technology, Guna, M.P.	Investigating the Challenges and Methodologies of Sentiment Analysis: A Review	Mayank Shrivastava and Shishir Kumar
104	Mudasir Ahmad Wani	Norwegian University of Science and Technology	A Language-independent gender classifier for Online Social Networks	Mudasir Ahmad Wani, Nancy Agarwal, Patrick Bours, Suraiya Jabin and Syed Zeeshan Hussain

TS-13 Miscellaneous Papers   Date - December 08, 2019   Time - 11.45 AM-1:30 PM   Venue: 5007

	Technical Session Information		
TS2+TS5	SIVP= Signal Image and Video Processing	TS9	CBD+CS=Cloud & Big Data + Computer & software
TS3	WCIT= (Wireless Communication and Internet of Things)	TS10	MSD= Mixed Signal design
TS4	CI&ML= Computational and ML	TS11	PhD Symposium
TS6	NIS=Networks and Information Security	TS12	IS&HCI+NLP= Intelligence system and HCI+ Natural Language processing
TS7	CTS= Communication Technology and systems	TS13	Miscellaneous Papers
TS8	CPCI= Cyber Physical Security in Critical Infrastructure+ RAI(Robotics and Artificial intelligence)		