

### 3<sup>rd</sup> International Conference on Intelligent Circuits and Systems (ICICS) 2020

<b>Day 1 of 2 (June 26th, 2020; Friday) INAUGURATION</b>	
<b>Time</b>	<b>Event</b>
8:30 - 9:00 AM	Joining of participants, dignitaries; Master of Ceremony Dr Anita Gehlot
9:00 - 9:15 AM	Welcome Address by Prof (Dr) Lovi Raj Gupta Executive Dean & HoF, LFTS
9:15 - 9:45 AM	Address by the Chief Guest worthy Vice Chancellor LPU Prof (Dr.) Ramesh Kanwar
9.45-10.00 AM	Sponsorer's promotion, LPU video/PPT fillers & setting up with the presentors
10:00 - 11.00 AM	Address by the Guest of Honor & IEEE Fellow, ex-VC VIT Vellore and ex-Director (I/C) Prof (Dr) D P Kothari
11.00-11.15 PM	Address by Prof (Dr) Dharam Buddhi, Executive Dean , Research & Innovation
11.15-11.30 AM	Sponsorer's promotion, LPU video/PPT fillers & setting up with the presentors
11:30 - 12:15 PM	Keynote Address by Dr. Albert Nasibulin, Professor, Center for Photonics and Quantum Materials, Skolkovo Institute of Science and Technology, Russia
12:15 - 01:00 PM	Keynote Addrress by Dr. Ishak Bin Aris, Professor, Department of Electrical and Electronic Engineering, Universiti Putra Malaysia, Malaysia
01:00 - 02:00 PM	Lunch Break
02:00 - 05:00 PM	Technical Tracks (parallel sessions)
<b>Day 2 of 2 (June 27th, 2020; Saturday) VELEDICTORY</b>	
<b>Time</b>	<b>Event</b>
9:00 AM - 01:00 PM	Technical Tracks (6 parallel sessions)
01:00 - 02:00 PM	Lunch Break
02:00 - 02:45 PM	Invited Expert Lecture by Dr. Dushanta Nalin Jayakody, Head, Infocomm Lab, School of Computer Science and Robotics, National Research Tomsk Polytechnic University, Russia
02:45 - 03:30 PM	Invited Expert Lecture by Dr. Rajendra Pratap, Head, Design Center, Arrow Electronics India, Noida, India
3:30 - 04:15 PM	Concluding the Conference (conference report) and Vote of thanks by HoS, SEEE

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Session wise Schedule

June 26, 2020

<b>Track: Emerging Technologies in Electrical Engineering</b>	
<b>Sub track: Energy and Power</b>	
<b>Time: 02:00 PM – 05:00 PM</b>	
<b>Paper Id</b>	<b>Title</b>
7	B Koti Reddy and Dr. Amit Kumar Singh. Post PV Integration Protection Issues
9	Ankem V R N B Manikyala Rao. Case study on Renewable energy integration (solar) challenges with Captive/Co generation plants and optimization of plant operation
13	Mohammed Ali Khan, Kurukuru Varaha Satya Bharath and Ahteshamul Haque. Islanding Classification and low voltage ride through for grid connected transformerless inverter
14	Varaha Satya Bharath Kurukuru, Mohammed Ali Khan, Ahteshamul Haque and Arun Tripathi. Machine Learning Classifier for Fault Classification in Photovoltaic System
25	Golla Naresh Kumar and Sudabattula Suresh Kumar. Energy Management Strategy for Plug-in Electric Vehicle with DFIG System
34	Sainadh Singh Kshatri, Javed Dhillon and Sachin Mishra. Impact of Geographical Locations on the PV Inverter Lifetime Considering Mission Profile and Uncertainties
35	Harpreet Sharma and Sachin Mishra. Feasibility Analysis of Smart Grid Distributed Generation Using RETScreen: A Case study of Industrial Building
41	Harpreet Sharma and Sachin Mishra. Impact of Solar Grid-Based Virtual Power Plant on Grid Flexibility
61	Shaik Aarif and Suresh Kumar Sudabattula. Placement of Solar DGs and Capacitors in Distribution Network using Combined Approach
95	Muzafar Shah, Mohammad Imran Mir and Javed Dhillon. Optimal Control of Renewable Energy System Integrated with Electric Vehicle

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<b>Sub track: Robotics &amp; Automation</b>	
<b>Time: 02:00 PM – 05:00 PM</b>	
<b>Paper Id</b>	<b>Title</b>
12	Rupam Singh and Bharat Bhushan. Control of Unmanned Surface Vehicles with Randomised Probabilistic Approach
49	Sachin Gupta and Yogita Pimpale. Design and development of Electronic precipitator for particulate matter air purification processes
65	Anchit Sinha, Ayushman Trivedi, Debaleena Das, Praveen Kumar Reddy and Sandeep Bansal. iPlanty: A Smart Agriculture Approach
118	Gurjot Singh Gaba. Smart Queue Management System for Public Transportation
150	Gurjot Singh Gaba. AN ADVANCED DRIVER ASSISTANCE SYSTEM FOR AUTONOMOUS VEHICLES: DESIGN AND TEST IN VIRTUAL ENVIRONMENT
225	Pawandeep Kaur, Avtar Singh Buttar, Sweta Chander and Ashutosh Sharma. A Comprehensive Analysis of Biosensor and Performance Parameters
237	Vikas Tiwari, Nonita Sharma, Krishna Pal Sharma and Prashant Kumar. Smart Water Quality Analysis System using DataPine
292	Mohit Charan Mullapudi, Manasij Chakraborti, Akhil Kumar Panda, Garv Sehgal and Sanjay Kumar Sinha. HARDWARE BASED DESIGN OF SMART WAREHOUSE MONITORING SYSTEM

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<b>Track: Intelligent Circuits &amp; Intelligent Systems</b>	
<b>Sub track: Signal and Image Processing</b>	<b>Time: 02:00 PM – 05:00 PM</b>
<b>Paper Id</b>	<b>Title</b>
17	Krishna Sundeep Basavaraju, Kirti Rawal and Gaurav Sethi. VIBROARTHROGRAPHIC SIGNALS FOR CLASSIFICATION OF KNEE DISORDERS
19	Sandeep Shelke and Govind Singh Patel. Improved image compression using lifting wavelet
22	Harpinder Singh, Ajay Roy, R.K. Setia and Brijendra Pateriya. Proximal and remote sensing of abiotic stress in crops
69	Mohit Srivastava and Manoj Kuri. Pre and Post Filter Selection for Image Segmentation
75	Bhaveshkumar Dharmani. Violation of Independence Assumption in ICA and its Consequences
92	Shakti Raj Chopra and Akhil Gupta. Multilevel Coding Scheme with Trellis Codes as Component Code in 5G Scenario
99	Chinthakindi Kiran Kumar, Gaurav Sethi and Kirti Rawal. MOTION DETECTION AND TRACKING OF SURVEILLANCE VIDEOS UNDER DISTORTED ENVIRONMENTS
81	Harpreet Singh. A Review Paper on Improving the network efficiency of IEEE 802.11e wireless networks
125	Bhaveshkumar Dharmani. Proposal of New Performance Measures for ICA

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<b>Sub track: Communication and IoT</b>	<b>Time: 02:00 PM – 05:00 PM</b>
<b>Paper Id</b>	<b>Title</b>
27	Kamal Kumar Sharma and Yogita Thareja. Cognitive Radio – Adaptive, Intelligent and Network technology A review
45	Danvir Mandal and Shyam S. Pattnaik. SAR Based Best Designs for Wearable Antennas: A Review
50	Keshav Jha and Akhil Gupta. A Critical Survey on Vertical Handoff Algorithms
51	Gurpreet Kumar, Daljeet Singh and Rajeev Kumar. A circular monopole Ultra-wideband antenna with a notch band at 5.8 GHz
53	Keshav Jha and Akhil Gupta. A Comprehensive Anatomy for Handover Probability in Heterogeneous Wireless Networks
55	Aditya Bakshi and Akhil Gupta. Secure Communication Channel for Grid Users Using AES Encryption
57	Krishan Kumar. SIC Scheduling Algorithm Based MIMO Technique for Mobile Ad-Hoc Networks
76	Shailender Kumar and Dr. Shelej Khara. Architecture, Key Technologies & Emerging Applications of 5G Cellular Network
79	Sruthi Thota and Manwinder Singh. Exploration of recent Medium Access Control (MAC) protocols for efficient transmission of data in Wireless Body Area Network
102	Bandana Sharma, Brij Mohan Singh and Kamal Sharma. An Effective Strategy for Denoising of MRI Images to Detect Brain Tumor
263	Prabal Gupta and H. Pal Thethi. A performance study and PAPR assessment of OFDM system for the diverse modulation schemes

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<b>Track: Intelligent Circuits &amp; Intelligent Systems</b>	
<b>Sub track: Soft Computing</b>	<b>Time: 02:00 PM – 05:00 PM</b>
<b>Paper Id</b>	<b>Title</b>
88	Anil Rawat, Kamal Kumar Sharma and Manwinder Singh. Optimization of Fire Disaster Management Technique using Fuzzy Tools
90	Rosepreet Kaur Bhogal and Ajmer Singh. Plant species recognition using CNN
157	Sai Rohit Jonnada, Goutham Cheruvupalli and Nitin Kumar. EVALUATION OF ADDITIVE MANUFACTURING USING MARLIN FIRMWARE
253	Sai Dinesh Reddy and Swapnil Bagwari. Crop Survival Analysis using Machine Learning and Internet of Things
254	Sunpreet Kaur Nanda and Deepika Ghai. A review on video forensics system using soft computing techniques
279	Max Bhatia and Vikrant Sharma. Classification of P2P File-sharing Traffic Using Heuristic Based and Statistical Based Technique
287	Sachit Dubey and Dr. Raju Barskar. A Review Of Crop Disease and Pest Forwarning Using Machine Learning
294	Manan Luthra and Sanjay Sinha. Stewart Platform: The 6 DOF Parallel Manipulator
296	Adnan Mukhtar and Pm Tiwari. IOT Security Algorithms: A Performance Comparison
306	Shivali Chopra and Arun Malik Deep Learning Inspired Continuous Estimation Framework for Scrum Projects

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<b>Sub track: Energy and Power</b>	<b>Time: 09:30 AM - 12:30 PM</b>
<b>Paper Id</b>	<b>Title</b>
98	Tanuj Mishra, Amit Kumar Singh and Vikram Kumar Kamboj. Comparative analysis of congestion pricing using application of PTDF method and Bialek's method in Indian Utility 146-Bus
136	Krishan Arora and Tarun Dhandhel. Design of an Automatic On-Load Tap Changing Distribution Transformer
181	Bhagwan Shree Ram and Narbada Prasad Gupta. Control Scheme of Doubly-Fed Induction Generators Applied in Wind Energy Conversion Systems
183	Megha Khatri, S Hareesh Reddy and Himanshu Aggarwal. Stability Assessment of Single-Area Thermal Automatic Generation Control System using Eigen Value Analysis
201	Chandan Kamble and Javed Dhillon. Load flow studies of LV microgrid using ETAP
209	Meenakshi Gupta, R.K Sharma and Vikram Kumar Kamboj A Novel Hybrid GWO-PS based solution approach for combinatorial Unit Commitment Problem
217	Syed Iqra, Himanshu Sharma and Dhruba Baishya. Power quality based comparative analysis of resonant inverters
242	Aaryan Raj and Aman Ganesh. Design of MPPT Based Controller for BLDC Motor Drive
260	Karthick Nagaraj, Janaki Pakalapati and Nagesh Kumar G.V. A New Method for Calculation of Permittivity in Gas Insulated Busduct
265	Mohammad Imran Mir, Dr. Amit Kumar Singh and Muzafar Ahmad Shah. POWER SYSTEM SECURITY OF DISTRIBUTED NETWORK USING CONTINGENCY ANALYSIS
293	Manish Reddy Baddam, Anoop Kumar Verma, Siddhant Treasure and Vijay Kumar Tayal. Design of Battery Management and Monitoring System for Electric Vehicles

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<b>Sub track: Signal and Image Processing</b>   <b>Time: 09:30 AM - 12:30 PM</b>	
<b>Paper Id</b>	<b>Title</b>
87	Manoj Sindhvani and Charanjeet Singh. CLUSTER HEAD SELECTION WITH DYNAMIC CLUSTERING TECHNIQUE USING MOBILITY AND STABILITY PARAMERS
134	Parul Mittal. Recognition and Categorization of Plant from Leaf Image using visual traits
135	Navjot Rathour, Rajesh Singh and Anita Gehlot. Fast Face Recognition Framework using Raspberry-Pi and Intel Movidius Neural Compute Stick
177	Navjot Rathour, Kartik Gaur, Pranab Kumar Mishra and Abhishek Maddheshiya. Raspberry-Pi and Intel Movidious Assisted Framework for Fruit Quality Monitoring
207	Amandeep Singh Sandhu, Gaurav Sethi and Dr.Gursharanjeet Kalra. Qualitative Performance Analysis of Gray Scale Image Denoising Techniques
235	Amandeep Singh Sandhu, Gaurav Sethi and Dr.Gursharanjeet Kalra. Statistical Evaluation of Color Image Denoising Techniques
273	Neelima N and Ravi Kumar Y. A COMPARATIVE REVIEW OF DIFFERENT TMOs FOR HDR IMAGES
302	Rydhm Beri, Mithilesh Kr. Dubey, Anita Gehlot and Rajesh Singh. COVID-19 Ramifications during Pregnancy
305	Chirag Sharma Frame Selection based Video Watermarking Technique based on DWT,K-SVD, Rail Fence to address quality loss of Data



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<b>Paper Id</b>	<b>Title</b>
96	Vikram Nayyar, Krishan Kumar and Monika Agrawal. Energy Efficient Concurrent MAC Transmission Based UWASN for Tsunami Warning
104	Pankaj Keshri and Richa Chandel. Wideband MIMO Antenna with Improved Isolation
111	Parulpreet Singh and Gurleen Kaur Walia. Biogeography Based optimized Localization of Target Nodes Using Single mobile Anchor Node in Wireless Sensor Networks
126	Aarti Kochhar and Naresh Kumar. WSN Sensor Deployment and Sampling Interval: Role of Dynamics
161	Akhil Gupta, Meghana Tripathi, Proddatur Lok Pavan Kumar and Alamuru Venkata Harsha Vardhan. Analysis of 5G Channel Parameters Using MMWave Channel Simulator NYUSIM
169	Vaseem Akram Shaik, Rajesh Singh and Anita Gehlot. Raspberry Pi based Smart Waste Management System using Internet of Things
171	Koushik Barman, Ajay Roy and Narbada Prasad Gupta. Comparative performance analysis of service discovery protocol and interference management schemes for device to device communication in 5G network
227	Gajanan Birajdar, Rajesh Singh and Anita Gehlot. A Review: Building fire detection and emergency evacuation system
244	Harmandar Kaur, Mamta Khosla, R.K. Sarin and Gurleen Kaur Walia. Hybrid Channel Estimation via Fuzzy Method over Nakagami-m fading in MIMO-OFDM System
251	Chavala Lakshmi Narayana, Dr Rajesh Singh and Dr Anita Gehlot. Analysis of IoT sensors for Monitoring the Oil Pipeline Parameters
266	Yashwant Reddy Keesara, Rashi Vatsa and Someet Singh. 4K HDMI USB3 Capture Card Reference Design

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<b>Sub track: VLSI and Embedded Systems</b>	<b>Time: 09:30 AM - 12:30 PM</b>
<b>Paper Id</b>	<b>Title</b>
18	Aishani Misra, Shilpi Birla and Neha Singh. Performance Analysis and Comparison of 4-bit Adder Architectures
21	Ashish Mulajkar and Govind Singh Patel. A SINGLE CYCLE LOW LATENCY BYPASS ROUTER BASED ON NETWORK ON CHIP
39	Sanjay Kumar Roy, Dr. Manwinder Singh, Dr.Kamal Kumar Sharma and Dr. B. P Singh. Mathematical Modelling of Semiconductor Devices and Circuits: A Review
40	Manoj Singh Adhikari, Mayank Punetha, Yashvir Singh and Yogesh Kumar Verma. Small Signal III-V High Gain MOSFET
42	Yogesh Kumar Verma, Laxman Singh, Varun Mishra, Rohit Gurjar, Prateek Kishor Verma, Santosh Kumar Gupta and Manoj Singh Adhikari. Oxide Thickness Variation Effects in MOS AlGaIn/GaN HFET
59	Gurleen Kaur Walia, Deep Kamal Kaur Randhawa, Kanwalpreet Singh, Parulpreet Singh and Harmandar Kaur. Detection of Nitrous Oxide Gas using Silicene Nanoribbons
68	Rekha Chaudhary and Prasantha R. Mudimela. Electrostatically Actuated Graphene NEMS Switch with Different Bridge Structures
70	Shekhar Verma and Suman Lata Tripathi. Impact of Temperature on 14nm FINFET with high-K Different Oxide Material
193	Suman Lata Tripathi and Teginder Singh. Design and Analysis of a Shared Charged Dynamic Latch Comparator
205	Urvashi Sharma, Sachin Mishra, Gulshan Kumar and Reji Thomas. A UNIVERSAL MEMORY THAT NEVER RUNOUT OF STEAM
206	Durgesh Addala, Teja P. and Sobhit Saxena. Fault Simulation Algorithm for Transistor Single Stuck Short Faults
289	Murali Krishna M and Dr. Prasantha Reddy Mudimela. Modeling of Inverters using MoS <sub>2</sub> based transistors