



2nd International Conference on Intelligent Computing Techniques for Smart Energy Systems-2021 (ICTSES-2021)

Program & Paper Session Schedule

September 1st, 2021 (Day-1)

Time	Activity		
9:30 AM - 10:15 AM	<p>Inauguration (Chief guest: Prof. Udaykumar Yaragatti, Director MNIT, Jaipur) <i>LINK (WebEx): https://bit.ly/3BmOVPO</i></p>		
10:15 AM - 11:00 AM	TEA BREAK		
11:00 AM - 12:00 PM	<p>Keynote-1 Dr Anshuman Tripathi (Program Director, Energy Research Institute, Nanyang Technological University, Singapore) <i>LINK (MS TEAMS): https://bit.ly/3sTUFND</i></p>		
12:00 PM - 1:00 PM	<p>Keynote-2 Prof K. R. Niazi (Professor, Malaviya National Institute of Technology, Jaipur, Rajasthan, India) <i>LINK (MS TEAMS): https://bit.ly/3sTUFND</i></p>		
1:00 PM – 2:00 PM	LUNCH		
02:00 PM – 02:45 PM	<p>Keynote-3 Rajesh Nemare (Secure meters, Udaipur, Rajasthan, India) <i>LINK (MS TEAMS): https://bit.ly/3Bco9Jy</i></p>		
03:00 PM – 05:00 PM	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"> <p>Session-1 Track 1: Electrical Engineering (Paper-ID: 02, 08, 10, 11, 27, 31, 33) <i>Link (MS TEAMS): https://bit.ly/3zsu5Oq</i></p> </td> <td style="width: 50%; text-align: center;"> <p>Session-2 Track 2: Electronics Engineering (Paper-ID: 12, 24, 32, 35, 37, 62, 68) <i>Link (MS TEAMS): https://bit.ly/3yo4K6T</i></p> </td> </tr> </table>	<p>Session-1 Track 1: Electrical Engineering (Paper-ID: 02, 08, 10, 11, 27, 31, 33) <i>Link (MS TEAMS): https://bit.ly/3zsu5Oq</i></p>	<p>Session-2 Track 2: Electronics Engineering (Paper-ID: 12, 24, 32, 35, 37, 62, 68) <i>Link (MS TEAMS): https://bit.ly/3yo4K6T</i></p>
<p>Session-1 Track 1: Electrical Engineering (Paper-ID: 02, 08, 10, 11, 27, 31, 33) <i>Link (MS TEAMS): https://bit.ly/3zsu5Oq</i></p>	<p>Session-2 Track 2: Electronics Engineering (Paper-ID: 12, 24, 32, 35, 37, 62, 68) <i>Link (MS TEAMS): https://bit.ly/3yo4K6T</i></p>		

September 2nd, 2021 (Day-2)

10:00 AM - 10:45 AM	<p>Keynote-4 Dr Surya Prakash (Associate Professor, IIT Indore) <i>LINK (MS TEAMS): https://bit.ly/3qA2QtS</i></p>
10:45 AM - 11:00 AM	TEA BREAK



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11:00 AM - 01:00 PM	Session-3 Track 1: Electrical Engineering (Paper-ID: 45, 58, 65, 70, 90, 96, 97) Link (MS TEAMS): (https://bit.ly/3kyzqqP)	Session-4 Track 2: Electronics Engineering (Paper-ID: 74, 77, 84, 91, 122, 140, 144) Link (MS TEAMS): (https://bit.ly/3jIVeNI)	Session-5 Track 3: Communication Technologies (Paper-ID: 09, 56, 93, 130, 134, 170, 183) Link (MS TEAMS): (https://bit.ly/3jm9zZX)
01:00 PM – 02:00 PM	LUNCH		
02:00 PM – 02:45 PM	Keynote-5 Prof Bhagavatula L V Prasad (Director, Centre for Nano and Soft Matter Sciences, Bengaluru) LINK (MS TEAMS): https://bit.ly/2UV0tbE		
03:00 PM – 5:00 PM	Session-6 Track 1: Electrical Engineering (Paper-ID: 111, 115, 118, 127, 138, 152, 161) Link (MS TEAMS): (https://bit.ly/3sPjc6K)	Session-7 Track 2: Electronics Engineering (Paper-ID: 148, 166, 169, 172, 177, 184, 185) Link (MS TEAMS): (https://bit.ly/3ynn6VF)	Session-8 Track 4: Computing Techniques (Paper-ID: 23, 26, 30, 42, 47, 87, 101) Link (MS TEAMS): (https://bit.ly/3kxTf7I)
September 3rd, 2021 (Day-3)			
10:00 AM - 10:45 AM	Keynote-6 Dr Anand Nayyar (Duy Tan University, Danang, Vietnam) LINK (MS TEAMS): https://bit.ly/3jINWt1		
10:45 AM - 11:00 AM	Tea Break		
11:00 AM - 01:00 PM	Session-9 Track 1: Electrical Engineering (Paper-ID: 100, 143, 160, 165, 171, 176, 180) Link (MS TEAMS): (https://bit.ly/3zmOu7b)	Session-10 Track 4: Computing Techniques (Paper-ID: 110, 116, 135, 145, 146, 168, 175) Link (MS TEAMS): (https://bit.ly/3ks1fHr)	

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Session-1 & 2: 03:00 PM – 05:00 PM on 01-09-2021 (Day-1)
Track 1: Electrical Engineering | Track 2: Electronics Engineering

Paper ID	Authors	Paper Title	Track #	Track Name
2	Shreya Nagaraja, Sankarshan Durgaprasad, Sumanth N, Sangeeta Modi	Fault Analysis and Protection Scheme for DC Microgrid	Track 1 Electrical Engineering <i>Link (MS TEAMS): (https://bit.ly/3zsu5Og)</i>	
8	Shopan Dey, Aniruddha Mukherjee, Amit Soni	A Case Study on Electric Vehicle Conversion from an Internal Combustion Engine Vehicle		
10	Ganesh Shirsat, Aniruddha Mukherjee and Amit Soni	A review on IOT based Efficient Energy Management System for Smart homes		
11	Siddhant Gudhe, Hiramani Shukla	Minimization of Tie-line Power Fluctuations using GCSC with Gas-Thermal -EV System for LFC Considering Time-Delay Effect		
27	Jai Kumar Maherchandani, Ritesh Tirole, Raju Kumar Swami	Microgrid Energy Management Strategy for Low Dynamics Load Applications using Simulink		
31	Akash Sharma, Rajive Tiwari	Voltage Profile Enhancement using FACTS Devices		
33	Shashi Kant Jatav, Praveen Kumar Agrawal	Integration of Community Solar PV and DG set for EV Charging Station	Track 2 Electronics Engineering <i>Link (MS TEAMS): (https://bit.ly/3yo4K6T)</i>	
12	Asirbad Mishra, Harshita Rai, Shilpi Birla, Neha Singh, Neeraj Kumar Shukla	Investigation of Timing Issues of True Single-Phase Clock Circuits for Nanodevices		
24	Monica Lamba, Sivasubramanian Ananthi, Himanshu Chaudhary, Kulwant Singh	A review of factors affecting the sensitivity of piezoresistive microcantilever based MEMS force sensor		
32	Deepika Sharma, Shilpi Birla, Neha Mathur	Comparative Analysis of 10T SRAM cell using Nanodevices		
35	Neha Mathur, Shilpi Birla, Deepika Sharma	Impact of variation of Performance Parameters on the efficiency of CNTFET Based 7T SRAM cells		
37	Shashikant Dargar, Jitendra Kaushal Srivastava, Shilpi Birla, Prabhat Kumar Panda	Performance Analysis of Oxide-Capacitance at Gate-Dielectric Variation in Surrounding-gate structure		
62	Amit Kumar Sharma, Shishir Kumar Sharma, Ritu Sharma	Effect of noise on concurrence of compact photonic CNOT gate designed using universal cloner		
68	Neha Gahlot, Nagaraju Dasari	(Gamma, delta)-fuzzy hyperideals in Gamma- Hypernear Ring		

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Session-3, 4, and 5 | 11:00 AM - 01:00 PM on 02-09-2021 (Day-2)

Track 1: Electrical Engineering | Track 2: Electronics Engineering | Track 3: Communication Technologies

45	Sunny Vaish, Naveen Kumar Sharma, Gagandeep Kaur	Current Status of Renewable Energy Sources in India and Its Utilization in Hybrid Energy System	<p>Track 1 Electrical Engineering</p> <p><u>Link (MS TEAMS): (https://bit.ly/3kyzqgP)</u></p>
58	Shakti Vashisth, Preveen Kumar Agrawal, Nikhil Gupta, K R Niazi, Anil Swarnkar	A Comprehensive Review on Fast Charging Stations Deployment for Electric Vehicles	
65	Siddhant Gudhe, Hiramani Shukla	PSO and Firefly Algorithm Application for AGC Thermal-EV Integrated System with Nonlinearities	
70	Amogh Narwaria, Pankaj Swarnkar, Sushma Gupta	A Review on multi-input dc-dc converter and its controlling for hybrid power system	
90	Mahipal Bukya and Rajesh Kumar	Evaluation of Electromagnetic Fields between HV Cable of Electric Vehicle	
96	Babu Naik G, Sanjay Lakshminarayanan	Cable Faults Identifying Review and Procedure for New Instrument	
97	Mukul Singh, Omveer Singh, M A Ansari, Vishwamitra Singh	Simulation and Analysis of Single Stage Grid Connected Solar PV System Using ANN	
74	Nipanka Bora, A Sureka, C Deka, S Mipun	Performance analysis of 3-D parallel gated junctionless field effect nanowire transistor	<p>Track 2 Electronics Engineering</p> <p><u>Link (MS TEAMS): (https://bit.ly/3jIveNl)</u></p>
77	Apoorva B S, Mohamed Arhaan Amjad, O Bharatha, Pullagura Sai Surya, Nagendra Prasad S	Design of MAC unit for an Artificial Neural Network using Reversible Logic Gates	
84	Seema Rani, Sanchita Bandyopadhyay-Ghosh, Subrata Bandhu Ghosh, Guozhen Liu	Biosensor based on Bioreceptor: A Potential Biomedical Device towards Early Detection of Bone Cancer	
91	Rukshar, Nitu Bhatnagar	A Review on Biosynthesis of Nanoparticles and their applications	
122	Brajesh Rajesh Bhagat, Rushikesh Pokar, Alpa Dashora	First principles study of novel BaSn _{1-x} In _x N ₂ (x = 0, 0.25) for thermoelectric applications	
140	Rushikesh Pokar, Alpa Dashora	Study of magnetic properties of 2D vdW ferromagnets Fe ₃ (Si/Sn)Te ₂ and Mn ₃ SiTe ₂ towards potential spintronics applications	
144	Kishan Mali, Brajesh Rajesh Bhagat, Alpa Dashora	Ab initio investigation of electronic and magnetic properties of 2D Mn doped Mo ₂ N ₂ T ₂ (T: O/F)	

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9	Vishnu Soni, Abhay Sharma, Jitendra Rajpurohit	Image Processing Using Elephant Herding Optimization: A Review	<p>Track 3 Communication Technologies</p> <p><u>Link (MS TEAMS):</u> <u>https://bit.ly/3jm9zZX</u></p>
56	Shikha Chaudhary, Saroj Hiranwal, C P Gupta	A New Hybrid Chaotic Map based Image Steganography using Spectral Graph Wavelet	
93	Tapan Nahar, Sanyog Rawat	Cost-Efficient Low-Profile MIMO Antenna for 5G Communications	
130	Aditi Chakraborty, Ansh Verma, Pawan Verma, Rajesh Verma	Performance Evaluation of a Hybrid-MAC Protocol for Small Sensor M2M Devices	
134	Ritwick Bhattacharya, Harish Sharma, Sandeep Chaurasia, Satpal Singh	Converting Braille Symbol and Words to Voice	
170	Rohit Mathur, Tarun Kumar Dubey	Security focused mathematical model for Voice over wireless sensor network	
183	Vivek Sharma, Devershi Pallavi Bhatt	Security Considerations & Network Parameters in WSN	

Session-6, 7, and 8 | 03:00 PM – 05:00 PM on 02-09-2021 (Day-2)

Track 1: Electrical Engineering | Track 2: Electronics Engineering | Track 4: Computing Techniques

111	Shilpa G, Syed Sha Sayaaff, Mallari Suresh, Suhas N M	Solar Operated Smart Elevator	<p>Track 1 Electrical Engineering</p> <p><u>Link (MS TEAMS):</u> <u>https://bit.ly/3sPjc6K</u></p>
115	Babu Naik G	Monitoring of Critical Buses in Real-Time by using PMU for 72-Bus	
118	V P Meena, Aeshna Anand, Rohit Verma, Megha Khatri, Satyabhan Behera, V P Singh	Interval Modelling of Doha Water Treatment Plant	
127	Shailu Sachan, Harsh Goud, Pankaj Swarnkar	Performance and Stability Analysis of Industrial Robot Manipulator	
138	Brijraj Singh Solanki, Renu Kumawat, Seshadhri Srinivasan	Optimized Control Function with Estimation of System Parameters against Attack for Networked Control System	
152	Anirban Majumdar, Gurpinder Singh, Anil Swarnkar, Nikhil Gupta, K R Niazi	Dynamic Electricity Pricing by Modified Levenberg- Marquardt Backpropagation (LMBP) Algorithm	
161	Rinit Rakesh, Gurpinder Singh, Anil Swarnkar, Nikhil Gupta, Khaleequr Rehman Niazi	Anomaly Detection in Short Term Load Forecasting	

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148	Hansraj Karwasara, Karina Khan, Amit Soni, K C Bhamu, Jagrati Sahariya, Ushma Ahuja	A DFT Study for Analyzing Opto-electronic Behavior of ZnCN2	<p>Track 2 Electronics Engineering</p> <p><u>Link (MS TEAMS):</u> <u>https://bit.ly/3ynn6VF</u></p>
166	Karina Khan, Aditi Gaur, Ushma Ahuja, Amit Soni, Jagrati Sahariya	A Computational Investigation of the Optoelectronic Characteristics of Chalcopyrite HgCP2	
169	Shubham Dadhich, Arun Dev Dhar Dwivedi, Garima Mathur	Numerical Simulation and Analytical Modeling of C8-BTBT-C8 Organic Transistor and Analysis of Semiconductor Thickness	
172	Deepika Bansal, Shubham Srivastava, Katyayani Chauhan, Peeyush Garg	Energy and Area Efficient Binary to Gray Code Converter	
177	Aditi Gaur, Karina Khan, Amit Soni, Alpa Dashora, Jagrati Sahariya	First Principle Investigation of the Electronic properties of SrGe1-xSnxP2	
184	Chusen Duari, Shilpi Birla	Dual port 8T SRAM Cell Design with Shorted Gate FinFET for Leakage Reduction and Improved Stability	
185	Shikha Sharma, Karina Khan, Amit Soni, Jagrati Sahariya	Structural and Optical Characteristics of Boron dopedCuGaSe2 Chalcopyrite	
23	Somya Goyal	Comparative Analysis of Machine Learning Techniques for Software Effort Estimation	<p>Track 4 Computing Techniques</p> <p><u>Link (MS TEAMS):</u> <u>https://bit.ly/3kxTf7I</u></p>
26	Izzat Al-Darraj, Ayad A, Kakei, Ayad Ghany Ismaeel, Georgios Tsaramiris and Akshet Patel	Dynamics Modeling and Motion Simulation of a Segway Robotic Transportation System	
30	Prajwal Bhardwaj, Kaustubh Lohani, Ravi Tomar, Rohit Srivastava	Comparative Analysis of Traditional and Cloud-Based Disaster Recovery Methods	
42	Garima Agarwal, Jayati Agnihotri	Solution of Fractional Kinetic Equations by using Generalized Galue Type Struve Function	
47	Devansh Sachar, Hemlata Goyal, Vijay Kumar Sharma	Comparative Sentiment Analysis on Stock Market News using Machine Learning	
87	Sapna Gahlot, Ram Naresh Saraswat	A new tool of Construction Project Decision Making under Refined Simplified Neutrosophic Similarity Measure	
101	Neha Sheth, Rohan Agrawal, Santosh Kumar Vishwakarma	A Content based Music Recommendation Systems using Rapid Miner	

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Session-9 & 10 | 11:00 AM - 01:00 PM on 03-09-2021 (Day-3)

Track 1: Electrical Engineering | Track 4: Computing Techniques

100	Himanshu Priyadarshi, Kulwant Singh, Ashish Shrivastava	Linear Regression for Insolation Prediction towards Energy Storage	<p>Track 1 Electrical Engineering</p> <p>Link (MS TEAMS): https://bit.ly/3zmOu7b</p>
143	Sandeep Gupta, Saurav Poonia, Tarun Varshney, Raju Kumar Swami, Ashish Srivastava	Design and Implementation of the Electric Bicycle with Efficient Controller	
160	Gurpinder Singh, Anil Swarnkar, Nikhil Gupta, K R Niazi	Outlier Detection and Clustering of Household's Electrical Load profiles	
165	Vikas Panchal, Anil Swarnkar, Nikhil Gupta, K R Niazi	Comparative Study of Islanding Detection Techniques of Microgrid for Solar PV as Distribution Generator	
171	Dileep Kumar Jareda, Gurpinder Singh, Anil Swarnkar, Nikhil Gupta, K R Niazi	Profit Maximization of a Micro-Grid with Renewable Generation using Smart Household Management Systems	
176	Divya Mathur, Neeraj Kanwar, Sunil Kumar Goyal	Battery Energy Management for Community Microgrid	
180	Mohammed Almshari, Adil O Khadidos, Georgios Tsaramirsis, Fazal Qudus Khan, Alaa Khadidos, Iordanis K Giannopoulos, Assimakis K Leros, Dimitris Piromalis, Mahipal Bukya	Setting Up Local Private Smart Grids with Data Collection Sensors for Scientific Experiments Using MQTT and Node-Red.	
110	Ronak Mundra, Avireni Srinivasulu, Cristian Ravariu, Bhargav Appasani	Liveness Detection with Convolutional Neural Network Algorithm	<p>Track 4 Computing Techniques</p> <p>Link (MS TEAMS): https://bit.ly/3ks1fHr</p>
116	I Keren Evangeline, S P Angeline Kirubha, J Glory Precious	Prediction of Breast Cancer Recurrence in Five Years Using Machine Learning Techniques and SHAP	
135	Gaurav Prasad, Devi Prasad Sharma, Jaya Krishna R	Exploring Security Threats and Attacks in Software Defined Networks	
145	Shiva Sharma, Neha Singh, Anupama Chaudhary, Manisha Rastogi	Correlative Study of Compositional and Bioelectric Parameters using Multi Frequency Bioelectrical Impedance Analysis (MFBIA)	
146	Kumar Dorthi, Anil Kumar, Ram Chandar Karra	Accurate Estimation for Stability of Slope and Partition over Old Underground Coal Workings using Regression-Based Algorithms	
168	Apoorv Srivastava, Asha Rani, Jyoti Yadav	Performance Analysis of Model Reduction Techniques applied to High Order Systems	
175	Mudit Chaturvedi, Shilpa Sharma, Gulrej Ahmed	Risks of Data Breaches and Mitigating Controls in Financial Sector	