

# International Conference on Computational Techniques and Applications

## ICCTA -2021

09<sup>th</sup> - 10<sup>th</sup> October 2021

### Tentative Programme Schedule

Date	Day	Time	Session		
09/10/2021	Day 1 Saturday	10.00AM - 11.00AM	<b>Inaugural Ceremony</b> Joining Link: <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> Meeting Number (access code): <b>2640 119 9999</b> Meeting Password: <b>TacrRK6eU45</b>		
		11.00AM - 12.00PM	Key Note 1	<b>Title: Opportunities and Challenges of Partnership of IOT and Big Data</b> <b>Speaker: Prof.(Dr.) L M Patnaik</b> , Emeritus Professor, Indian Institute of Science Bangalore Joining Link: <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> Meeting Number (access code): <b>2640 119 9999</b> Meeting Password: <b>TacrRK6eU45</b>	
		12.00PM - 02:00PM	Session 1	<b>Computation and its Application I</b> Joining Link: <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> Meeting Number (access code): <b>2640 119 9999</b> Meeting Password: <b>TacrRK6eU45</b>	
			Session 2	<b>Electronic Systems and Applications I</b> Joining Link: <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5</a> Meeting Number (access code): <b>2642 018 4660</b> Meeting Password: <b>qhNKjqBQ853</b>	
		02.00PM - 03.00PM	Key Note 2	<b>Title: Deeply Reinforced Cybersecurity</b> <b>Speaker: Dr. Mohit Sewak</b> , Principal Data Scientist in SCIM Research, Microsoft R&D, India Joining Link: <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> Meeting Number (access code): <b>2640 119 9999</b> Meeting Password: <b>TacrRK6eU45</b>	
		03.00PM - 05.00PM	Session 3	<b>Electrical and Energy Systems I</b> Joining Link: <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> Meeting Number (access code): <b>2640 119 9999</b> Meeting Password: <b>TacrRK6eU45</b>	
			Session 4	<b>Electronic Systems and Applications II</b> Joining Link: <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5</a> Meeting Number (access code): <b>2642 018 4660</b> Meeting Password: <b>qhNKjqBQ853</b>	

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10/10/2021	Day 2 Sunday	09.30AM-10.30AM	Key Note 3	<b>Title: Computational Techniques in Electromagnetic Measurement and Calibration Applications</b> <b>Speaker: Dr. Junwei Dong</b> , Fragrant Mountain Microwave Co. Ltd., China <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> <b>Meeting Number (access code): 2640 119 9999 Meeting Password: TacrRK6eU45</b>	
		10.30AM - 12.30PM	Session 5	<b>Electrical and Energy Systems II</b> <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> <b>Meeting Number (access code): 2640 119 9999 Meeting Password: TacrRK6eU45</b>	
			Session 6	<b>Electronic Systems and Applications III</b> <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5</a> <b>Meeting Number (access code): 2642 018 4660 Meeting Password: qhNKjqBQ853</b>	
		12.30PM – 01.30PM	Key Note 4	<b>Title: OxRAM: An Emerging Memory Technology</b> <b>Speaker: Prof. Rajat Mahapatra</b> , Professor and Dean SW, NIT Durgapur, India <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> <b>Meeting Number (access code): 2640 119 9999 Meeting Password: TacrRK6eU45</b>	
		01.30PM - 03.30PM	Session 7	<b>Computation and its Application II</b> <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> <b>Meeting Number (access code): 2640 119 9999 Meeting Password: TacrRK6eU45</b>	
			Session 8	<b>Electronic Systems and Applications IV</b> <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=me02b8b6d077b3a9f41ccac8693cb7ec5</a> <b>Meeting Number (access code): 2642 018 4660 Meeting Password: qhNKjqBQ853</b>	
		03.30PM - 04.00PM	<b>Award Distribution</b> <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> <b>Meeting Number (access code): 2640 119 9999 Meeting Password: TacrRK6eU45</b>		
		04.00PM - 05.00PM	<b>Valedictory</b> <b>Joining Link:</b> <a href="https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771">https://iiitnayaipur.webex.com/iiitnayaipur/j.php?MTID=mb5f8825eeefeda247f35719f81975771</a> <b>Meeting Number (access code): 2640 119 9999 Meeting Password: TacrRK6eU45</b>		

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<b>Session 1</b>	<b>Session 2</b>	<b>Session 3</b>	<b>Session 4</b>
<b>Computation and its Application I</b>	<b>Electronic Systems and Applications I</b>	<b>Electrical and Energy Systems I</b>	<b>Electronic Systems and Applications II</b>
67: Social distancing using video tracking system- An effort towards CoVID-19 Social distancing using video tracking system- An effort towards CoVID-19	105: Design of Compact Triple Band Filtering Power Divider with Coupled Lines	60: Performance assessment of Hybrid Triple-Tied BIPV Array Configurations for maximising Power output under patterns of Partial Shading	39: A high gain photo-sensor in 0.35 $\mu\text{m}$ HV CMOS process
76: A Universal Dependency Treebank for Definitely Endangered Low Resource Kangri Language	120: A Comparative Study on Label-Free Detection of Biomolecules Using Various Biosensing Techniques	75: Fractional Order Modified AWPI based DC-DC Converter Controlled SEDC Motor	223: Effect of High-K dielectric material of 14nm Tri-Layered Strained Silicon Channel HOI FinFET on Short Channel Effect
40: A Comparative Study Of Machine Learning Algorithms For Anomaly Based Network Intrusion Detection System	41: Design Of High Gain Antenna Incorporated with Left-Handed Material for Satellite Applications	5: Model Coordinate the System of Interval Regulation Train Traffic	30: Calibration techniques in ASIC and FPGA based time-to-digital converters
205: A Novel Distributed Database Architectural Model for Mobile Cloud Computing	98: Design of Novel Radial Folded Microstrip Patch Antenna for WiMAX Application	43: Design of a Second Order System with Additional Actuating Signal for Desired Output	168: Synthesis and Characterisation of Zinc Oxide Nanoparticles Production Using Catharanthus Roseus Leaf Extract
96: RNN Based Deep Learning Model for Generating Caption of an Image	206: Evolution of Biomedical Implantable Antennas: Requirements, Challenges, Designs, and Applications	119: MVO Optimized Linear Quadratic Regulator for Automatic Voltage Controller System	196: DESIGN AND DEVELOPMENT OF 8T SRAM CELL USING 14nm FINFET
88: Third Wave Prediction Analysis for Kerala in India	64: Investigating Electromagnetic Bandgap for Nano-Fishnet Structure with Elliptical Void embedded inside Triangular Lattice	195: Classification and Area Computation Modeling of Remote Sensing Images using Histogram and Convolutional Neural Network	166: A Comparative study of GaN and Si based SOI FinFET
47: An Effective Approach For Detecting Acute Lymphoblastic Leukemia Using Deep Convolutional Neural Networks	204: Eyes Say It All: Deepfake Detection Method Analysis using Different Metrics	33: PSO and Firefly Algorithm Applied to EV Based Hybrid Renewable Energy System for Load Frequency Control Considering Time-Delay Effect	37: A high-speed CMOS frontend readout ASIC for multi-channel muon detectors
93: Comparative Study on Sentiment Analysis of Human Speech using DNN and CNN	179: Effects of Tilting ESD Gun on Discharging Current	137: Review on Various Techniques for Load Frequency Control in Deregulated Power Structures	74: Investigation of Extended Gate-on-Source and Charge-Plasma Based Gate-All-Around TFET for Improved Analog Performance
132: An SVM-based Approach to Predicting Level of Job Anxiety in Corporate Professionals Using Linguistic Markers on Twitter			

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<b>Session 5</b>	<b>Session 6</b>	<b>Session 7</b>	<b>Session 8</b>
<b>Electrical and Energy Systems II</b>	<b>Electronic Systems and Applications III</b>	<b>Computation and its Application II</b>	<b>Electronic Systems and Applications IV</b>
38: Interconnection of HVDC into Thermal-Gas-EV System for LFC Considering Time-Delay Effect	59: A Uniquely Packed 2.4 GHz ISM Band Microstrip Antenna for Bluetooth Devices	86: A Ternary Sentiment Classification of Bangla Text Data Using Support Vector Machine and Random Forest Classifier	77 : Efficient optimization technique for analyzing the performance of bifacial solar cells using Fuzzy logic
46: Design Approach for Online Parameter Estimators for Unknown Two-parameter First-order Scalar Plant	111: Gain Enhancement of Open-ended Waveguide with Finite Circular Ground Plane and Slots	131: Object Detection in Railway Tracks Using Deep Learning Techniques	81 : Nanowire GaSb Infra-Red Solar Cell
208: Performance Analysis of Lead-Free Perovskite Solar Cells	73: Dual-Element CPW-Fed MIMO Antenna for ISM Band Application	36: Skin Cancer Detection using Computer Vision	220: The Impact of Elon Musk Tweets on Bitcoin Price
72: Comparative Studies of Load Voltage, Load Current and Load Power among the PKL, Pandan Leaf, Red Spinach and Green Chili Electrochemical Cells	92 : Triple-strap EMI suppression with frequency-selective exterior	167: Coronavirus Detection using Computer Vision	203: A Novel Solar Thermoelectric Generator with Conical Frustum Leg Geometry
94: A Non Linear modeling Towards the Pade Approximated Electric Ventricular Assist Device Using Describing Function Technique	95: Design Analysis of Uniformly Weighted Circular Planar Antenna Array using Efficient Meta-heuristic Algorithm in Matlab	61: Use of Support Vector Machine to Check Whether Process Metrics are as good as Static Code Metrics	118: Illumination Insensitive Video Cut Detection using Phase Congruency
62: Electricity generation using soil and living PKL tree	12: DUAL BAND STOP FILTER WITH CONTROLLABLE STOP-BANDS BASED ON DEFECT IN SHUNT RADIAL STUB	133: Markerless Location Based Augmented Reality Application for Showcasing Deals	221: DESIGN OF 22nm STRAINED SILICON CHANNEL GATE ALL AROUND FET DEVICE
142: Investigations on the impact of soiling on bifacial gain	222: Microstrip RFID Reader Antenna Analysis with Different Slot Configurations	151: Development of a Web-based Corona Emergency Portal	51: A Novel and Efficient CNN Architecture for Detection and Classification of ECG Arrhythmia
129: An Observation of Energy density of a PKL, Aloe Vera, Myrobalan, Lemon and Tomato Electrochemical Cell	135: Inset Feed Semi-Circular Slot Compact Microstrip Antenna For 10 GHz Mobile Applications	78: Analysis of Unsupervised Statistical Machine Translation using Cross-lingual Word Embedding for English Hindi	224: A Center of Gravity based novel Clustering Algorithm for Energy Efficient Wireless Sensor Network