

ICNTE-2019 Technical Program

Session Name: S1-1(EXTC)

Date: 04/01/2019 Time: 1.30 to 3.30 pm Venue: AX- 501A (EXTC Tutorial Room)

Sr. No	Paper Title
1	Analysis of Different Heart Rate Monitoring and Pre-Processing Techniques for ECG
2	ParaInfia-An infotainment System for semi-paralyzed using Electroencephalogram
3	Recognition of Emotion Through Facial Expressions Using EMG Signal
4	Analysis and Identification of Renal Calculi in Computed Tomography Images
5	Design and Simulation of a New Reconfigurable Analog to Digital Converter based on Multisim

Session Name: S1-2(EXTC)

Date: 04/01/2019 Time: 1.30 to 3.30 pm Venue: AX-514B (Electrical Tutorial Room)

Sr. No	Paper Title
1	Real-Time Aerial Image Panoramic by using Drone
2	Bluetooth Controlled Agricultural Bot
3	Portal based Prepaid Energy Billing System using GSM
4	Design and Development of Software based Waveform Generation using Microcontroller 8051
5	Design and Implementation of High Precision Time to Digital Converter Readout System

Session Name: S2-1(EXTC)

Date: 04/01/2019 Time: 4.00 to 6.00 pm Venue: AX-501A (EXTC Tutorial Room)

Sr. No	Paper Title
1	Investigating Single Channel Source Separation Using Non-Negative Matrix Factorization and its Variants for Overlapping Speech Signal
2	Evaluation of Stochastic Gradient Descent and Relevance Vector classifier for improvement in Spoken Language Understanding in terms of performance and data sparsity
3	Study of Acoustic Correlates between Prosodic Features and Emotions in Marathi Language
4	Detection of Faulty Integrated Circuits with Thermal Image Processing
5	Remote Diagnosis of Heart Disease using Telemedicine

Session Name: S2-2(EXTC)

Date: 04/01/2019 **Time:** 4.00pm to 6.00 pm **Venue:** AX- 514B (Electrical Tutorial Room)

Sr. No	Paper Title
1	A 10-Bit 10-MS/S 5.72 Nw Mixed SAR Logic for ADC Used In Wireless Sensor Node
2	QOS Based Vertical Handover Decision Algorithm Using Fuzzy Logic
3	Implementation of Li-Fi Based Multi-Hop Ad Hoc Network for Inter Vehicle Communication
4	Development of Optical Communication Framework with Xilinx Gigabit Transceivers
5	Review on Online Monitoring of Electrical Machine Using IoT
6	A New Method for Improving Resolution of Nuclear ADC for High Resolution Spectroscopy System

Session Name: S1(Comp & IT)

Date: 04/01/2019 **Time:** 1.30 to 3.30 pm **Venue:** AX-505B (Computer Tutorial Room)

Sr. No	Paper Title
1	SnoopMe- Interactive Task Scheduler Mobile Application for Students
2	Inspecting Engineering College Websites for Effective Search Engine Optimization
3	Automated System for Management of Examination Processes
4	Lossy compression of climate data using principal component analysis
5	Fuzzy Probability Model for Quantifying the Effectiveness of the MSW Compost
6	Chronic Kidney Disease Prediction and Recommendation of Suitable Diet plan by using Machine Learning

Session Name: S2(Comp & IT)

Date: 04/01/2019 **Time:** 4.00 to 6.00 pm **Venue:** AX-505B(Computer Tutorial Room)

Sr. No	Paper Title
1	Object Recognition for The Visually Impaired
2	Paraphrase Identification of Marathi Sentences
3	Web Application for Screening Resume
4	Implementation of Alcohol and Collision Sensors in a Smart Helmet
5	Smart Recommendation System based on Product Reviews using Random Forest
6	Evaluating the Performance of Proposed IODAM Algorithm

Session Name: S1(Mechanical)

Date: 04/01/2019 **Time:** 1.30 to 3.30 pm **Venue:** AX- 515B (Mechanical Tutorial Room)

Sr. No	Paper Title
1	Lamb Wave Based Damage Detection in Aluminum Plate Using Minimum Number of Transducers
2	Liquid Level Sensing Using Lamb Waves
3	Localization of a damage in an Aluminum plate using Lamb wave based ultrasonic testing and Genetic algorithm
4	Implementation of Mechanical Motion Amplifier in Hybrid Shock Absorber with Linear Generator and Fluid Damper
5	Evaluating thermal contact resistance for ohmic type RF MEMS switch
6	Evaluation of Site Core Damage Frequency of Multi-Unit Nuclear Power Plant Using Probabilistic Safety Assessment

Session Name: S2 (Mechanical)

Date: 04/01/2019 **Time:** 4.00 to 6.00 **Venue:** AX-515B (Mechanical Tutorial Room)

Sr. No	Paper Title
1	Design and Analysis of Balancer Shaft at Inclined Position For a Single Cylinder Engine
2	Static and dynamic analysis of parabolic leaf spring with design optimization for light commercial vehicle
3	Position Control of Solar Powered Aerostat for Reliable Power Generation in the Presence of Clouds
4	Performance Analysis of Crash Box in Automobiles
5	Design and Analysis of Magneto-Rheological (MR) Damper
6	Vibration analysis of motorcycle handlebar to study comfort level of rider
7	System Development for Simultaneous Measurement and Control of pH and Moisture of Soil
8	A new system for obtaining a constant air-fuel ratio at a constant engine load for a compression ignition internal combustion engine

Session Name: S3(Electrical)

Date: 05/01/2019 **Time:** 9.00 to 11.00 am **Venue:** AX-514B (Electrical Tutorial Room)

Sr. No	Paper Title
1	High Speed Permanent Magnet Synchronous Generator for Supercritical CO2 Brayton Cycle based Application
2	Design Considerations and Simulation of Superconducting Transformer
3	Design Considerations of Permanent Magnet High Speed Alternator for Solar Thermal Power Plant
4	Design and Simulation of Sensorless Speed Control of Induction Motor using Direct Torque Control Technique employing Five level Torque Comparator and Twelve Sector Method
5	Real Time Control of Induction Motor Drives
6	Performance Comparison of Two-Level Voltage Source Converter with Sinusoidal PWM and Space Vector PWM for HVDC application

Session Name: S4(Electrical)

Date: 05/01/2019 **Time:** 11.00 to 1.00 pm **Venue:** AX-514B (Electrical Tutorial Room)

Sr. No	Paper Title
1	A Review of Unit Commitment Problem Using Dynamic Programming
2	Scheme for Providing Electric Energy for Electric Vehicles
3	Top-Down Approach In Design And Simulation of Grid Integrated Solar Rooftop Pv System
4	State of Art for Power Quality Issues in Pv Grid Connected System
5	Simulation of Single Phase to Single Phase Step Down Cycloconverter for Industrial Application
6	Design and Simulation of Three Phase Six Pulse Thyristor Controlled Rectifier
7	Design & Simulation of Twelve Pulse Thyristorized Controllers in Series And Parallel Mode of Operation

Session Name: S3-1(Comp & IT)

Date: 05/01/2019
Tutorial Room)

Time: 9.00am to 11.00am

Venue: AX-505B (Computer

Sr. No	Paper Title
1	Charity Chain - Proposed Solution for Trackable Donations using Blockchain
2	A Defense Mechanism for DoS Attacks in SDN(Software Defined Network)
3	Edu-Coin: A Proof of Stake implementation of a decentralized skill validation application
4	An approach to develop a secure and decentralized Internet
5	Digital Forensics Capability Analyzer- A Tool to check forensic capability
6	Advanced Security in 2LQR Code Generation and Document Authentication

Session Name: S3-2(Comp & IT)

Date: 05/01/2019

Time: 9.00am to 11.00am

Venue: AX-501A (EXTC Tutorial Room)

Sr. No	Paper Title
1	Optimizing Nutrition using Machine Learning Algorithms - a Comparative Analysis
2	Drug review analytics of neurological disorders
3	Handwritten Gujarati script recognition with image processing and deep learning
4	Intelligent News Aggregator and Validator
5	Simulating and Embedding Fuzzy Logic for Dynamic Stabilization of RC Aircraft

Session Name: S4(Comp & IT)

Date: 05/01/2019
Room)

Time: 11.00am to 1.00pm

Venue: AX-505B (Computer Tutorial

Sr. No	Paper Title
1	On Stability And Scalability Enhancement in WSN
2	Indoor Navigation System using BLE Beacons
3	Analysis of Malicious Behavior of Blackhole and Rushing Attack in MANET
4	Towards Developing a Secure and Robust Solution for E-Voting using Blockchain
5	Removal of Web Application Vulnerability Using Taint Analyzer And Code Correction
6	GreenCoin: Empowering smart cities using Blockchain 2.0
7	Efficient Privacy Preserving and Dynamic Public Auditing for Storage Cloud

Session Name: S3 (Mechanical)

Date: 05/01/2019 Time: 9.00am to 11.00am Venue: AX- 515B (Mechanical Tutorial Room)

Sr. No	Paper Title
1	Modeling and Analysis of Textured Surfaces on a Single Point Cutting Tool
2	Development and Mechanical Characterization of Natural-Artificial Fiber Hybrid Composite
3	Multi objective optimization in CNC end milling of Inconel 718 super alloy by taguchi-grey-fuzzy method
4	Comparison of Mechanical and Micro structural properties of Aluminium Alloy AA6062 on TIGW and FSW Processes
5	Comparison of online and offline monitoring of surface roughness in CNC end milling of Inconel 718
6	Design and Analysis of frame of smart wheelchair

Session Name: S4-1(Mechanical)

Date: 05/01/2019 Time: 11.00am to 1.00pm Venue: AX-515B (Mechanical Tutorial Room)

Sr. No	Paper Title
1	Waterproofing of Strain Gauges for Underwater Applications
2	Design and Analysis of Underwater Remotely Operated Vehicle
3	A Semi-Autonomous Tracked Robot Detection of Gun and Human Movement Using Haar Cascade Classifier for Military Application
4	Automated Tile Polishing Robot
5	Pipe Cleaning Robot
6	Suppression of Thermo-Acoustic Instabilities Using Helmholtz Resonator
7	Conceptual Design and Sizing of a Wing-Tip Extension Mechanism for HALE UAV

Session Name: S4-2(Mechanical)

Date: 05/01/2019 **Time:** 11.00am to 1.00pm **Venue:** AX- 501A(EXTC Tutorial Room)

Sr. No	Paper Title
1	Application of Machine Learning for Design-by-Analysis of Pressure Equipment
2	Investigating Application of Machine Learning in Identification of Polygon Shapes for Recognition of Mechanical Engineering Drawings
3	Base Isolation Techniques for Fluid Tanks to Minimize Seismic Time Period
4	Identification of Cordwise Location of Shear Web of Wind Turbine Blade
5	Vibration based detection of damage in fixed-fixed I-Beam using Particle Swarm Optimization
6	Optimization of Acoustic Wave for Process Equipment Cleaning using Design of Experiments
7	Design, Fabrication & Testing of Cooling System for Multi-Junction CPV cells