

# Technical Program

Session Name S1(Computer and IT)		Session Chair: Dr. Amiyakumar Tripathi
Date: 04/01/2019	Time: 1.30 to 3.30 pm	Venue: AX-505B (Computer Tutorial Room)
Sr. No.	Paper Title & Author	
1	SnoopMe- Interactive Task Scheduler Mobile Application for Students <i>Ashwini Dalvi, Irfan Siddavatam</i>	
2	Inspecting Engineering College Websites for Effective Search Engine Optimization <i>Ashwini Dalvi, Riya Saraf</i>	
3	Automated System for Management of Examination Processes <i>Bilal H. Hungund, Anas Shaikh, Ghazi Owais, Aabidi Sayyed Ali, Pratibha Dumane</i>	
4	Lossy compression of climate data using principal component analysis <i>Rachit Parikh, Nitin Sharma, Ankit Bansal</i>	
5	Fuzzy Probability Model for Quantifying the Effectiveness of the MSW Compost <i>Savita Mohurle, Manoj Devare</i>	
6	Chronic Kidney Disease Prediction and Recommendation of Suitable Diet plan by using Machine Learning <i>Akash Maurya, Rahul Wable, Rasika Shinde, Sebin John, Rahul Jadhav, Dakshayani R</i>	

Session Name S1(Mechanical)		Session Chair: Dr. S. D. Sharma
Date: 04/01/2019	Time: 1.30 to 3.30 pm	Venue: AX-515B (Mechanical Tutorial Room)
Sr. No.	Paper Title & Author	
1	Lamb Wave Based Damage Detection in Aluminium Plate Using Minimum Number of Transducers <i>Nitesh P. Yelve and Nikhil M. Gorhe</i>	
2	Liquid Level Sensing using Lamb waves <i>Nitesh P. Yelve and Siddhesh B. Chavare</i>	
3	Localization of a damage in an Aluminium plate using Lamb wave based ultrasonic testing and Genetic algorithm <i>Nitesh P. Yelve and Jackson A Mudaliar</i>	
4	Implementation of Mechanical Motion Amplifier in Hybrid Shock Absorber with Linear Generator and Fluid Damper <i>Nitin Satpute, Abhijeet R Mali, Dr. Jugulkar Lalitkumar Maikulal, Badal Kudachi, Bipin Mashilkar</i>	
5	Evaluating Thermal Contact Resistance for Ohmic type RF MEMS switch <i>Manish S. Gaikwad, N. K. Deshmukh, V. B. Sawant, Suhas S. Mohite</i>	
6	Evaluation of Site Core Damage Frequency of Multi-Unit Nuclear Power Plant Using Probabilistic Safety Assessment <i>Aditya Ashok Shinde, Gopika Vinod, Vinayak H. Khatawate, Shishirkumar N. Kadam</i>	

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 & Author
1	<b>Analysis Of Different Heart Rate Monitoring And Pre-Processing Techniques for ECG</b> <i>Jeenal Rambhia, Ameya Naik</i>
2	<b>ParaInfia-An infotainment System for semi-paralyzed using Electroencephalogram</b> <i>Sejal Chopra, Atharva Aglawe, Shyam Singh, Amogh Ambekar</i>
3	<b>Recognition of Emotion Through Facial Expressions Using EMG Signal</b> <i>Shraddha Atul Mithbavkar, Milind Shantilal Shah</i>
4	<b>Analysis and Identification of Renal Calculi In Computed Tomography Images</b> <i>Tanmay Shah, Sushma Kadge</i>
5	<b>Design and Simulation of a New Reconfigurable Analog to Digital Converter based on Multisim</b> <i>Jayamala Adsul, J. M. Nair, P. P. Vaidya</i>
6	<b>Development Of Optical Communication Framework With Xilinx Gigabit Transceivers</b> <i>Vedant Chikhale, Nilashree Wankhede, Smita Hande</i>

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 & Author
1	<b>Real-Time Aerial Image Panoramic by using Drone</b> <i>Suprava Patnaik, Sanjana Keluskar, Darryl Lopes, Rohit Ekka, Karan Kachi</i>
2	<b>Bluetooth Controlled Agricultural Bot</b> <i>Sagar G.Janokar, Nachiket K.Kulkarni, Saurabh S. Datey, Kiran P. More</i>
3	<b>Portal based Prepaid Energy Billing System using GSM</b> <i>Pooja Jha, Kinjal Savla, Deepshikha Patwa, Amit Deshmukh, Shruti Pistolwala</i>
4	<b>Design and Development of Software based Waveform Generation using Microcontroller 8051</b> <i>Varada Kulkarni, Pranav P. Kulkarni, R.D.Kulkarni</i>
5	<b>Design and Implementation of High Precision Time to Digital Converter Readout System</b> <i>Shriya Wadke, Nachiket Rao, Varada Kulkarni, Anurag Karmarkar, Sadhana Pai</i>

Session Name S2(Computer and IT)		Session Chair: Dr. Amiyakumar Tripathi
Date: 04/01/2019		Time: 4.00 to 6.00 pm
		Venue: AX-505B (Computer Tutorial Room)
Sr. No.	Paper Title & Author	
1	<b>Object Recognition for The Visually Impaired</b> <i>Heetika Gada, Vedant Gokani, Abhinav Kashyap, Amit A. Deshmukh</i>	
2	<b>Paraphrase Identification of Marathi Sentences</b> <i>Shruti Srivastava, Sharvari Govilkar</i>	
3	<b>Web Application for Screening Resume</b> <i>Sujit Amin, Nikita Jayakar, Sonia Sunny, Pheba Babu, M. Kiruthika, Ambarish Gurjar</i>	
4	<b>Implementation of Alcohol and Collision Sensors in a Smart Helmet</b> <i>Shikha Gupta, Kashish Sharma, Nihar Salvekar, Akshay Gajra</i>	
5	<b>Smart Recommendation System based on Product Reviews using Random Forest</b> <i>Gayatri Khanvilkar, Deepali Vora</i>	
6	<b>Evaluating the Performance of Proposed IODAM Algorithm</b> <i>Vinaya Sawant, Ketan Shah</i>	

Session Name S2(Mechanical)		Session Chair: Dr. S. D. Sharma
Date: 04/01/2019		Time: 4.00 to 6.00 pm
		Venue: AX-515B (Mechanical Tutorial Room)
Sr. No.	Paper Title & Author	
1	<b>Design and Analysis of Balancer Shaft at Inclined Position For a Single Cylinder Engine</b> <i>Vishalkumar K Dhummansure , Lahu Rakate, D Ramesh Rao, Yogesh Ambikar</i>	
2	<b>Static and dynamic analysis of parabolic leaf spring with design optimization for light commercial vehicle</b> <i>Yagnesh Mehta, Saurabh Gehlot, P.Sakthivel</i>	
3	<b>Position Control of Solar Powered Aerostat for Reliable Power Generation in the Presence of Clouds</b> <i>Sowmya Gupta, Mira Mitra, Leena Vachhani, Siddhartha P. Duttagupta</i>	
4	<b>Performance Analysis of Crash box in Automobiles</b> <i>Komal A Kadam, Vinayak H Khatawate</i>	
5	<b>Design and Analysis of Magneto-Rheological (MR) Damper</b> <i>S.M.Khot, Amey Pramod Marathe</i>	
6	<b>Vibration Analysis of Motorcycle Handlebar to Study Comfort Level of Rider</b> <i>S.S. Surve, S.S. Goilkar</i>	
7	<b>System Development for Simultaneous Measurement and Control of pH and Moisture of Soil</b> <i>Varad V. Abhyankar, Sharada A.Gavade, Kiran S. Bhole</i>	
8	<b>A new system for obtaining a constant air-fuel ratio at a constant engine load for a compression ignition internal combustion engine</b> <i>Varun.S.Shetty</i>	

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 & Author
1	<b>Investigating Single Channel Source Separation Using Non-Negative Matrix Factorization and its Variants for Overlapping Speech Signal</b> <i>Nandini C Nag, Milind S Shah</i>
2	<b>Evaluation of Stochastic Gradient Descent and Relevance Vector classifier for improvement in Spoken Language Understanding in terms of performance and data sparsity</b> <i>Sheetal Jagdale, Milind S Shah</i>
3	<b>Study of Acoustic Correlates between Prosodic Features and Emotions in Marathi Language</b> <i>Trupti K. Harhare, Dr. Milind Shah</i>
4	<b>Detection of Faulty Integrated Circuits with Thermal Image Processing</b> <i>Akshay A. Sarawade, Nadir N. Charniya</i>
5	<b>Remote Diagnosis of Heart Disease using Telemedicine</b> <i>Megh Doshi, Maitri Fafadia, Stutee Oza, Amit Deshmukh, Shruti Pistolwala</i>

Session Name S2-2(EXTC)	
Date: 04/01/2019      Time: 4.00 to 6.00 pm	
Venue: AX-514B (Electrical Tutorial Room)	
Sr. No.	Paper Title & Author
1	<b>A 10-Bit 10-MS/S 5.72 Nw Mixed SAR Logic For ADC Used In Wireless Sensor Node</b> <i>Dipak S. Marathe, Uday P. Khot, Member, IEEE2</i>
2	<b>Qos Based Vertical Handover Decision Algorithm Using Fuzzy Logic</b> <i>Siddharth Goutam, Srija Unnikrishnan</i>
3	<b>Implementation Of Li-Fi Based Multi-Hop Ad Hoc Network For Inter Vehicle Communication</b> <i>Jeneel Kachhadiya, Viraj Savaliya, Urmil Joshi, Parth Thakar</i>
4	<b>Review On Online Monitoring Of Electrical Machine Using IoT</b> <i>Pranav P. Kulkarni, Mohit Patil, Sharun Shibi, Mohit Patle, Rashmi Kale</i>
5	<b>A New Method for Improving Resolution of Nuclear ADC for High Resolution Spectroscopy System</b> <i>Asma Parveen Siddavatam, Dr. P. P. Vaidya, Dr. J. M. Nair</i>

<b>Session Name S3-1 (Computer and IT)</b>		<b>Session Chair: Dr. Madhav Chandane</b>
<b>Date: 05/01/2019</b>		<b>Time: 9.00 to 11.00 am</b>
		<b>Venue: AX-505B (Computer Tutorial Room)</b>
<b>Sr. No.</b>	<b>Paper Title &amp; Author</b>	
<b>1</b>	<b>Charity Chain - Proposed Solution for Trackable Donations using Blockchain</b> <i>N. Sai Sirisha, Tarasha Agarwal, Ranjeet Monde, Richa Yadav, Rupali Hande</i>	
<b>2</b>	<b>A Defense Mechanism for DoS Attacks in SDN(Software Defined Network)</b> <i>Trupti Lotlikar, Deven Shah</i>	
<b>3</b>	<b>Edu-Coin: A Proof of Stake implementation of a decentralized skill validation application</b> <i>Namita Nair , Ankit Kumar Dalal , Abhishek Chhabra , Nupur Giri</i>	
<b>4</b>	<b>An approach to develop a secure and decentralized Internet</b> <i>Shreeyaa Agrawal, Harsh Jain</i>	
<b>5</b>	<b>Digital Forensics Capability Analyzer- A Tool to check forensic capability</b> <i>Shah Pratik, Patel Reeva, Gada Preet, Dhuri Siddhesh, Nilakshi Jain</i>	
<b>6</b>	<b>Advanced Security in 2LQR Code Generation and Document Authentication</b> <i>Sunita R. Gaikwad, R. Y. Patil, D. G. Borse</i>	

<b>Session Name S3-2 (Computer and IT)</b>		<b>Session Chair: Dr Dhananjay Kalbande</b>
<b>Date: 05/01/2019</b>		<b>Time: 9.00 to 11.00 am</b>
		<b>Venue: AX-501A (EXTC Tutorial Room)</b>
<b>Sr. No.</b>	<b>Paper Title &amp; Author</b>	
<b>1</b>	<b>Optimizing Nutrition using Machine Learning Algorithms-a Comparative Analysis</b> <i>Asmabee Khan , Sachin Deshpande and Amiya K. Tripathy</i>	
<b>2</b>	<b>Drug review analytics of neurological disorders</b> <i>Dipen Chawla, Disha Mohnani , Varsha Sawlani, Sujay Varma and Sujata Khedkar</i>	
<b>3</b>	<b>Handwritten Gujarati script recognition with image processing and deep learning</b> <i>S. Aniket , R. Atharva , C. Prabha , D. Rupali and P. Shubham</i>	
<b>4</b>	<b>Intelligent News Aggregator and Validator</b> <i>Shahid Khan , Prof. Tabrez Khan , Chandresh Prasad Amaanulla Khatri and Irfan Khan</i>	
<b>5</b>	<b>Simulating and Embedding Fuzzy Logic for Dynamic Stabilization of RC Aircraft</b> <i>Jeneel Kachhadiya , Urmil Joshi , Abhinav Kashyap and Suyash Ail</i>	

Session Name S3 (Mechanical)		Session Chair: Dr. P. J. Guruprasad
Date: 05/01/2019		Time: 9.00 to 11.00 pm
		Venue: AX-515B (Mechanical Tutorial Room)
Sr. No.	Paper Title & Author	
1	Modeling and Analysis of Textured Surfaces on a Single Point Cutting Tool <i>Slyden Rodrigues ,Terrence Pereira, Sagar Patil, Brean Burboz, Prasad Bari</i>	
2	Development and Mechanical Characterization of Natural-Artificial Fiber Hybrid Composite <i>Aaditya Kenge, Ninad Kulkarni, Nikheel Tate, Haseen Shaikh, Kiran Bhole</i>	
3	Multi objective optimization in cnc end milling of Inconel 718 super alloy by taguchi-grey-fuzzy method <i>Paramjit Thakur, Jalal Ahmed Khan, Mugdha Dongre, Swarnjayanti Gupta</i>	
4	Comparison of Mechanical and Micro structural properties of Aluminium Alloy AA6062 on TIGW and FSW Processes <i>Akash Sharma, Deepesh Sharma, V K Dwivedi</i>	
5	Comparison of online and offline monitoring of surface roughness in CNC end milling of Inconel 718 <i>Tejas Ghinmine , Sanket Pawar , Ismail Antulay, Swarnjayanti Gupta</i>	
6	Design and Analysis of frame of smart wheelchair <i>Mathewlal Thomas, Anurag Bhatkar, Aditya Nair, Blesson Biju, Aditya Shetty</i>	
7	Analysis of Passive Retrofitting Measures for Reduced Electricity Demand <i>Jaya Goyal , S. S. Mantha, V. M. Phalle</i>	

Session Name S3 (Electrical)		Session Chair: Dr. A.K. Ray
Date: 05/01/2019		Time: 09-00 to 11.00 am
		Venue: AX-514B (Electrical Tutorial Room)
Sr. No.	Paper Title & Author	
1	High Speed Permanent Magnet Synchronous Generator for Supercritical CO2 Brayton Cycle based Application <i>Yash Ajgaonkar, Ashutosh Sanjay Kavitar, R.D. Kulkarni</i>	
2	Design Considerations and Simulation of Superconducting Transformers <i>Pranav P. Kulkarni, Pushkaraj C. Sawant, R.D. Kulkarni</i>	
3	Design Considerations of Permanent Magnet High Speed Alternator for Solar Thermal Power Plant <i>Nutan Kalvikatte, Geeta Chaurasia, Kunal Sawant, Shubham Prajapati, R.D. Kulkarni, Shipa Kapse</i>	
4	Design and Simulation of Sensor less Speed Control of Induction Motor using Direct Torque Control Technique employing Five level Torque Comparator and Twelve Sector Method <i>Anindya Pal , Gaurava Deep Srivastava,R. D. Kulkarni</i>	
5	Real Time Control of Induction Motor Drives <i>P. M. Menghal, A. Jaya Laxmi</i>	
6	Performance Comparison of Two-Level Voltage Source Converter with Sinusoidal PWM and Space Vector PWM for HVDC application <i>Daniel Dsa, Uma L and Bindu S</i>	

<b>Session Name S4 (Computer and IT)</b>		<b>Session Chair: Dr. Madhav Chandane</b>
<b>Date: 05/01/2019</b>		<b>Time: 11.00 to 1.00 pm</b>
		<b>Venue: AX-505B (Computer Tutorial Room)</b>
<b>Sr. No.</b>	<b>Paper Title &amp; Author</b>	
1	<b>On Stability And Scalability Enhancement in WSN</b> <i>Meera R Pillai and Ranjan Bala Jain</i>	
2	<b>Indoor Navigation System using BLE Beacons</b> <i>Akshay Bhosale, Gloria Benny, Robin Jaison, Adil Khot, Sandhya Pati</i>	
3	<b>Analysis of Malicious Behavior of Blackhole and Rushing Attack in MANET</b> <i>Alpana Kumari and Shoba Krishnan</i>	
4	<b>Towards Developing a Secure and Robust Solution for E-Voting using Blockchain</b> <i>Harsh Jain , Rajvardhan Oak, Jay Bansal</i>	
5	<b>Removal of Web Application Vulnerabilities using Taint Analyzer and Code Corrector</b> <i>Shafaque Fatma Syed , Aamir Ahmed , Gavin D'mello , Zeeshan Ansari</i>	
6	<b>GreenCoin : Empowering smart cities using Blockchain 2.0</b> <i>Siddharth Dekhane , Kaushal Mhalgi , Kaushik Vishwanath , Shivani Singh ,Nupur Giri</i>	
7	<b>Efficient Privacy Preserving and Dynamic Public Auditing for Storage Cloud</b> <i>Jagruti M. Patil, Sagita S. Chaudhari</i>	

<b>Session Name S4-1 (Mechanical)</b>		<b>Session Chair: Dr. P. J. Guruprasad</b>
<b>Date: 05/01/2019</b>		<b>Time: 11.00 to 1.00 pm</b>
		<b>Venue: AX-515B (Mechanical Tutorial Room)</b>
<b>Sr. No.</b>	<b>Paper Title &amp; Author</b>	
1	<b>Waterproofing of Strain Gauges for Underwater Applications</b> <i>Monali Pawar, C. Ramadas, Irfan Khan, Pramod Vadavkar and Makarand Joshi</i>	
2	<b>Design and Analysis of Underwater Remotely Operated Vehicle</b> <i>Aaditya Kenge, Ankush Mali</i>	
3	<b>A Semi-Autonomous Tracked Robot Detection of Gun and Human Movement Using Haar Cascade Classifier for Military Application</b> <i>Mohammad Zahirul Islam, Ali Ahsan Ratul Acharjee</i>	
4	<b>Automated Tile Polishing Robot</b> <i>Swapnil Ramani , Ajit Salunke , Isaiah Ferrao , Eldon Noronha</i>	
5	<b>Pipe Cleaning Robot</b> <i>Swapnil Ramani , Ajit Salunke , Sujay Shirodkar , Osburn Vas</i>	
6	<b>Suppression of Thermo-Acoustic Instabilities Using Helmholtz Resonator</b> <i>Nilaj N. Deshmukh, Badal Kudachi, Salmon Joy, Shaunak Phansalkar, Vishnu Pillai, Titus Thomas</i>	
7	<b>Conceptual Design and Sizing of a Wing-Tip Extension Mechanism for HALE UAV</b> <i>Tanisha Joshi, Jay Dhameliya, Tanvi Prakash, Sohrab Mistri ,Chandra Sekher Yerramalli, Anirban Guha, Rajkumar S. Pant</i>	

Session Name S4-2(Mechanical)		Session Chair: Dr. R. P. Shimpi
Date: 05/01/2019		Time: 11.00 to 1.00 pm
		Venue: AX-501A (EXTC Tutorial Room)
Sr. No.	Paper Title & Author	
1	Application of Machine Learning for Design-by-Analysis of Pressure Equipment <i>Kavan Shah, Raoul Chandnani, Ujjal Mavinkurve, Nilesh Raykar</i>	
2	Investigating Application of Machine Learning in Identification of Polygon Shapes for Recognition of Mechanical Engineering Drawings <i>Abhilash Mane, Riddhi Adhikari, Shreyash Gadgil, Nilesh Raykar</i>	
3	Base Isolation Techniques for Fluid Tanks to Minimize Seismic Time Period <i>S.M.Khot, Sha Husain S. Maghrabi</i>	
4	Identification of Cordwise Location of Shear Web of Wind Turbine Blade <i>Khan Mohammed Azfar Rafiudd, Nilaj N. Deshmukh</i>	
5	Damage Detection of Fixed Fixed beam using Particle Swarm Optimization <i>Chirag G.Wani, Sanjay Rukhande, Nitesh Yelve</i>	
6	Optimization of Acoustic Wave for Process Equipment Cleaning using Design of Experiments <i>Nilaj N. Deshmukh, Santosh J. Chauhan, Saumiya S. Nair</i>	
7	Design, Fabrication & Testing of Cooling System for Multi-Junction CPV cells <i>Nilesh Varkute, Deepak Devasagayam, Atul Shenoy, Simon Fernandes, Pranav Chaulkar, Samuel Cerejo, Aashish Yadav</i>	

Session Name S4 (Electrical)		Session Chair: Dr. A.K.Ray
Date: 05/01/2019		Time: 11-00 to 1.00 pm
		Venue: AX-514B (Electrical Tutorial Room)
Sr. No.	Paper Title & Author	
1	A Review Of Unit Commitment Problem Using Dynamic Programming <i>Soham Chaudhari, Saurabh Killekar, Aishwarya Mahadik, Nair Meerakrishna, Divya M</i>	
2	Scheme for Providing Electric Energy For Electric Vehicles <i>Saumyakanta Khatua, Shipra, V Sarathchandran, P B Karandikar</i>	
3	Top-Down Approach In Design And Simulation Of Grid Integrated Solar Rooftop Pv System <i>Yash Ajgaonkar, Mayuri Bhirud, Poornima Rao</i>	
4	State of Art for Power Quality Issues in PV Grid Connected System <i>Achala Khandelwal, Pragma Neema</i>	
5	Simulation Of Single Phase To Single Phase Step Down Cycloconverter For Industrial Application <i>Amey Khedekar, Dhananjay Badade, Harshal Ugawekar, Saurabh Kale, R.D. Kulkarni, Madhwi Kumari</i>	
6	Design And Simulation Of Three Phase Six Pulse Thyristor Controlled Rectifier <i>Raunak Kulkarni, Suyash Gangurde, Yash Pant, R.D. Kulkarni, Madhwi Kumari</i>	
7	Design & Simulation Of Twelve Pulse Thyristorized Controllers In Series And Parallel Mode Of Operation <i>KarimabeeS.Shaikh, Amol M. Mate, Govind J. Haibate, Supriya D. Nagothkar, Hitesh M.Mahanubhav, K. Vadirajacharya, R.D. Kulkarni</i>	