




Past Conference Report

International Conference on

**Emerging Trends in Engineering and
Technology**

SIEM, Nashik

07th & 08th July 2021



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1. EVENT SUMMARY

Conference Name	: International Conference on Emerging Trends in Engineering and Technology (ICETET-2021)
Date	: 07 th & 08 th July 2021
Conference Theme	: Foster and propagate rational expertise in the field of Engineering, and Technology
Auspice Organisations	: Department of Mechanical Engineering, Sandip Institute of Engineering and Management, Nashik
Mode/Place	: Virtual Conference

1.1 OVERVIEW

The International Conference on Emerging Trends in Engineering and Technology (ICETET-2021) held on the 07th & 08th July 2021 which was Organized by Department of Mechanical Engineering, Sandip Institute of Engineering and Management, Nashik in Association with the Institute for Engineering Research and Publication (IFERP).

Participating to this conference represents a way of inter-personal and inter-institutional communication based on research themes specific to the modern trends of the Science, Engineering, Social Science and education domain, but also to the connection domains, having implications focused on the improvement of the qualitative level of the academic environment reflected in the direction of scientific research, science, Engineering, physical education, health and social environment.

The conference represents an occasion of international interest that is addressed to the Science, Engineering, Social Science and education, but also to the professionals from connection domains who, by their contributions may provide a multidisciplinary communication framework.

1.2 Conference Theme

The International Conference on Emerging Trends in Engineering and Technology (ICETET-2021) is themed about the distinct distinguished consequences and different hurdles in the fields of engineering and technology. This convention seeks to draw together executives, researchers, scholars, and academics in all areas of economics, business management, social sciences and humanities, to provide a global platform for the distribution of significant investigative results, distinguished approaches, and developmental applicability that focus on both modern methods and innovative approaches.

This convention will focus on strikingly advanced conditions in the distinguished developments of engineering, social sciences and humanities and is foreseen to attract renowned experts from these specialties as well as lesser-known domains too. Participating in this conference will support participants and attendees in contemplating their proficiency to

sharpen their abilities and improve their strategies using innovative approaches by interlacing with their associates and equals. Participants will likewise be allowed to connect with experts and prominent lecturers and share popular ideas and research outcomes with them.

2. ABOUT THE CONFERENCE

The objective of ICETET-2021 is to present the latest research and results of scientists (preferred students, post graduate Students, Research Scholars and post-doc scientists) related to Mechanical Engineering, Civil Engineering, Electrical & Electronics Engineering, and Computer Science & Engineering. The conference will feature traditional paper presentations as well as keynote speeches by prominent speakers who will focus on related state-of-the-art technologies in the areas of the conference.

Now-a-days the academia and researchers are not only pondering but also experiencing the overwhelming outcomes of interdisciplinary researches. Moreover, it has been ubiquitously encouraged by the governments, research agencies and by the academic institutions. The intent behind the multidisciplinary international conference is to provide a common platform, where academia, delegates from industry and nominees from various Government and Private Universities and Institutions can sit together, and cherish about achievements so far, as well as deliberate upon futuristic approaches along with major bottlenecks.

3.CONFERENCE SCOPE

ICETET topics include, but are not limited to, the following research and development areas/fields.

- Design Of Portable Hydraulic Extraction Mechanism
- Manual clamping replaced by hydro-pneumatic clamping
- Analysis On Walker
- Analysis on Progressive Tool For Washer
- Review on Design of chassis Dynamometer
- Fully automated vegetable cleaner using ozone disinfectant
- Improvement of Thermal Efficiency of Household Gas Stove-Review and Discussion
- Fabrication and analysis of Natural Air Ventilation Nozzle
- Development of Green building for Sustainable Environment
- Pneumatic Sealing Machine for Plastic Housing

As a result, many Keynotes, Tutorial and Technical Sessions have been prepared in accordance with conference scope to discuss the Challenges, Opportunities and Problems of Application in various fields.

4. INAUGURAL PROGRAMME

The day 1 of the conference started with welcoming all the participants, dignitaries and special guest for the conference followed by the proceedings book release and introduction of session chair for the technical sessions. And then opening speech, welcoming speech were conducted.

Post to that, our valuable eminent keynote speakers from various parts of the country given their speeches followed by the technical session. On Day 1, technical sessions segregated as two sessions. Multiple technical participants were presented on Day 1 and completed the day 1 conference successfully.

The day 2 of the conference started by welcoming all participants, dignitaries and special guests followed by the technical participants. On Session 1 and 2, multiple technical participants had presented their views based upon the theme of conference. Post completion, our honourable dignitary delivered the Valedictory speech followed by Vote of thanks. All together the ICETET conference conducted on July 07th & 08th was arranged and completed successfully.

To make the conference delight and successful, our team has taken a huge effort and undergo several analyses on how best the conference can be arranged. A Market and geographical analysis were prepared prior to the conference.

4.1 Welcoming and Opening Ceremony

Welcoming Keynote Speakers of the International Conference on Emerging Trends in Engineering and Technology (ICETET-2021)

Welcome speech was given by



Prof.(Dr.) Dipak P. Patil

Principal

Sandip Institute of Engineering and Management

Welcome speech from Technoarete group was given by



Mr. Siddh Kumar Chhajer

Founder, Managing

Director Technoarete

Group.

Keynote Speakers



Dr. Ing. Giulio MANZONI

Owner and Director, microspace, Singapore



Dr. Vijay Tharad

Director Operations at Corporate Professional Academy for Technical Training & Career Development Andhra Pradesh, India



Dr. Raziq Yaqub

Associate Professor
Alabama A&M University Graduate School
Huntsville, Alabama Area, United States



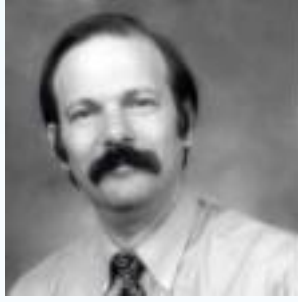
Dr. Lerwen LIU

Managing Director, Circular Economy Accelerator
Founding Director, STEAM Platform
Author and Editor, An Introduction to Circular Economy
KX Innovation Center, Bangkok



Professor Seifedine Kadry

Professor of Data Science
Noroff University College, Kristiansand, Norway
Reviewer National Science Foundation Graduate Research Fellowship Program (NSF-GRFP) Lebanon



Prof. Moshe Vardi
 Professor at Rice University
 Bellaire, Texas, United States

Session chairs

Followed by the welcoming our chief guest of the 1st International conference on emerging trends on engineering and technology.

Name	Dept	Mail id	Designation	Institute
Dr. S.D. Kalpande	Mech	shyamkalpande@gmail.com	Professor & Vice Principal	Guru Gobindsingh college of engineering and research centre
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Dr. S.J. Gorane	Mech	shrikantgorane@gmail.com	Professor	Government Polytechnic,Dhule
Dr. S. S. Pawar	Mech	pawarss1008@gmail.com	Professor	SRK University,Bhopal
Dr. Mahesh Sanghavi	Comp	sanghavi.mrcoe@snjb.org	Professor & HOD	Shree Neminath Jain college of engineering,Chandwad
Prof. kainjan M. Sanghvi	Comp	kainjan@gmail.com	Professor	Shree Neminath Jain college of engineering,Chandwad
Prof. Bhavana Khivsara	Comp	bhavana.khivsara@gmail.com	Professor	Shree Neminath Jain college of engineering,Chandwad
Dr. Santosh Agnihotri	E&TC	santosh.agnihotri@ges-coengg.org	Professor & HOD	R.H.Sapat college of engineering,Nashik
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Dr. D. V. Patil	Comp	dipakvpatil17@gmail.com	Professor	MET COE,Nashik
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Dr. N. M. Pawar	Electrical	nmpawar102@gmail.com	Professor	MGM'S College of Engineering,Navi Mumbai
Dr. D. D. Ahire	E&TC	dnyaneshwar.ahire@matoshri.edu.in	Professor	Matoshri college of Engineering,Nashik

4.2 Opening Session _Conference Proceeding book



International Conference on Emerging Trends in Engineering and Technology

Organized By

**Department of Mechanical Engineering,
Sandip Institute of Engineering and Management, Nashik
in Association with
Institute For Engineering Research and Publication (IFERP)**

5.CONFERENCE ORGANIZING COMMITTEE

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Chairman

Sandip Foundation's

Patron:



Prof. Pramod Ambadas Karole

Academic Facilitator

Sandip Foundation's

Patron:



Prof. Ms. Mohini P. Patil

General Manager

Sandip Foundation's

Convenor:



Prof. (Dr.) Dipak P. Patil

Principal

Sandip Institute of Engineering & Management (SIEM)

Co-Convenors:



Prof. (Dr.) A. S. Dube

H.O.D

Department of Mechanical Engineering, SIEM

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Department of Mechanical Engineering, SIEM



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Department of Mechanical Engineering, SIEM



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Engineering, Nashik, Maharashtra, India

Hadi Erfani

Scientist, Department Of Petrochemical Engineering
Lappeenranta University of Technology, Iran

6.SCIENTIFIC PROGRAM

Time	Activity
10:00AM – 10:10 AM	Welcome Speech By Prof.(Dr.) Dipak P. Patil Principal Sandip Institute of Engineering and Management
10:11 AM– 10:20 AM	Mr. Siddth Kumar Chhajer Founder, Managing Director Technoarete Group.
10:20AM-10.30AM	Dr. Sandip Kumar Jha Hon. Chairman, Sandip Foundation
10:31 AM – 11:00 AM	Keynote address by Dr.Ing. Giulio MANZONI
11:01 AM – 11:30 AM	Keynote address by Dr. Vijay Tharad
11:31 AM – 12:00 PM	Keynote address by Dr. Raziq Yaqub
12:01 PM – 01:00 PM	Lunch Break
01:01 PM – 05:00 PM	Technical Sessions

Conference Schedule: Day 2

Time	Activity
10:00AM – 10:30 AM	Keynote address by Dr. Lerwen LIU
10:31 AM– 11:00 AM	Keynote address by Professor Seifedine Kadry
11:01AM-11.30AM	Keynote address by Prof. Moshe Vardi
11:31 AM – 12:00 AM	Break
12:00 PM – 4:00 PM	Technical session
4:00 – 4:30 PM	Valedictory Function
	Prof. (Dr.) Anil S. Dube

4:00 PM – 4:10 PM	H.O.D Mechanical Sandip Institute of Engineering and Management
	Best paper announcement
4:11 PM – 4:20 PM	Closing Speech By IFEP
4:21 PM – 4:30 PM	Mr. Rudra Bhanu Satpathy CEO, Technoarete Group

Technical Session I

Day 1 (Technical Session 1)

Mechanical Department

Sl No	Paper Title	Author Details
1.	Design Of Portable Hydraulic Extraction Mechanism	Prof.K.U.Shinde
2.	Design and Manufacturing of Auto Removable Crop Protection Shed and Its Prototype	Yogesh D. Kirtane
3.	Manual clamping replaced by hydro-pneumatic clamping	Ashish P. Borhade
4.	Analysis On Walker	Ashish P Borhade
5.	Analysis on Progressive Tool For Washer	Prof.Ashish Prakash Borhade
6.	Optimization And Testing Of Spot Welds On Moped Steel Wheels	Prof.S.M.Mahajan
7.	A Review On Optimization Of Machining Parameters For Surface Roughness Of Titanium Alloy (Ti-6Al 4V) For Turning Operation By Using NOx Coolant	S. B. Ambekar
8.	Review on Design of chassis Dynamometer	Prof. S. B. Ambekar

9.	A Review on Experimental Investigation of Machining Parameter For Tool Wear And Tool Life Of Titanium Alloy (Ti6AL4V) By Using NOX Coolant	Prof. S. B. Ambekar
10.	Entry system for disable people	Prakash Sutar
11.	Fully automated vegetable cleaner using ozone disinfectant	Niteen L. Bhirud
12.	A Review on Design and Development of Hybrid Two-Wheeler	Prof. Sunil M Mahajan
13.	Improvement of Thermal Efficiency of Household Gas Stove-Review and Discussion	Dr. N L Bhirud
14.	Design and Manufacturing, Monitoring of Double End Drive Machine for Exhaust Assembly System	Prof.Dr.L.K.Toke
15.	Some Studies On Portable Solar Dryers And A Proposed Novel Conceptual Design Of Portable Solar Dryer	Dr. Niteen L. Bhirud
16.	Automatic Job Loading and Unloading on CNC Lathe Machine	Prof.Chetan R. Patil
17.	Fabrication and analysis of Natural Air Ventilation Nozzle	Kiran More
18.	ENHANCEMENT IN POWER PRESS SPACER TOOL	L. K. Toke
19.	Design & Development of Fatigue Testing Machine for Leaf Spring	Prof.S.J.Chede
20.	A review study of Nano refrigerant-based vapour compression refrigeration system	Ankit Kumar
21.	A Review of Automatic Breaking Fluidleakage Detection With Safetybypass Breaking System	Pramod Ambadas Karole
22.	Development of Green building for Sustainable Environment	Swapnil Bandu Ambekar
23.	Design And Fabrication Of Automated Waste Segregation Machine	Ahmeddraza H. Ansari
24.	Pneumatic Sealing Machine for Plastic Housing	Desale Pushpak Bhausaheb

Day 1 (Technical Session 2)

Mechanical Department

Sl No	Paper Title	Author Details
1.	Wall Climbing Robot For Inspection Of Composite Materials	Soham Bharambe
2.	Design and Development of Machine Generating Water from Air	Aniket Shitole, Milind Patil, Bhiraj Sonawane, Yatin Sarode
3.	Four Wheel Steering System Zero Radius Turning Vehicle	Prof. L.K.Toke
4.	Design,Development and Testing of Semi Automatic Dish Washer	Sumeet S Nathani, Vaibhav R Waghmare, Amey R Pardeshi,
5.	Design & Fabrication of Foldable Electric Bicycle	Mr. Rutik Hyalinge
6.	Experimental and FEA Investigation of V Shape Spring with Steel and Composite Material Under Different Loading Conditions	Pavan Subhash Baravkar
7.	Solution of 2 dimensional steady and unsteady heat conduction equations by using Finite Difference method	Kiran D. More
8.	Design & Performance Evaluation of Eco-Cooler by Varying Different Parameters	Anil Dube
9.	Automated Solar Panel Cleaner	Anil Dube
10.	Future and usability of electric bike	Purva phad
11.	Design & Development of Alcohol Detection with Safety Braking System	Gajanan Shelke
12.	Automatic Horn Control System for Two Wheeler	Tushar.D.Patil
13.	Review of Gear Testers	Abhishek Bhesar

14.	Optimization of machining parameters of nickel alloys using pvd and cvd coated carbide insert	Prasad Kulkarni
15.	Experimental Investigation of Machining Parameter of Inconel-718 for Green Manufacturing	Prasad Kulkarni
16.	Some Studies on Improvement of Thermal Efficiency of Household Gas Stove	Dr. N L Bhirud
17.	Design and development of solar power aeration systems	Praksh M Sutar
18.	Identification and evaluation of barriers in introducing Electronic Health Records in India	Aman Pundhir
19.	The Impact of Innovative Methods Based on Students' Learning Styles on Effective Learning	Mr. Sanjaykumar Ingale
20.	Development of Empirical Correlations by Regression Analysis and Curve Fitting method for Uncleaned Sugar Cane Juice with Equispaced Tape Inserts	Dr. Abhijit Arvind Patil
21.	Experimental Investigation on Heat Transfer Enhancement of Nano Fluids in Vapor Compression Refrigeration	Mr. Hemant T. Shinde
22.	A Review on Aeration System Design for Optimum DO Level	Shahu Zhalte
23.	Experimental and Optimization of Parameters on Laser Beam Machining to Minimize Kerf, Surface Roughness and Dross of SS304	Umeshkumar Hiralal Chavan

Day 1 (Technical Session 3)

Electrical and Electronics Department

Sl No	Paper Title	Author Details
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1.	IoT based electric pole safety system	Rahul Mashalkar
2.	Smart street light & power saving by using dimming concept	Shailesh D. Patil, Mayur R. Rane, Amit N. Kolhe
3.	Power Generation on Highways using Vertical Axis Wind Turbine and Solar Energy	Prof. Mosam K. Sangole
4.	Smart Watch for Elderly People Using Microcontroller	Gulam Mustafa Khan
5.	IOT BASED SMART WATER METER	ANKITA IYER
6.	AUTOMATIC LIFT DISINFECTION	Shital Lachake
7.	Deep learning proposition for Pneumonia detection in Chest X-Ray	Yogesh Risodkar
8.	Automatic Sorting System	Aman Agrawal
9.	Electric vehicle charging station and automatic billing system	Prathamesh Chopade
10.	Fully Automatic Veggie Washer Using Ozone Disinfectant	Atharva Borale
11.	Autonomous waste garbage management system for smart cities	Rohit Sonawane
12.	IOT BASED WOMEN SAFETY DEVICE	Jagdish A. Patel
13.	Facial Recognition Based Attendance System	Shahid Eqbal
14.	Loss analysis and stability consideration for Multi-Phase Synchronous DC/DC Buck converter	Sujoy Chaudhary
15.	Stock Market Prediction using Machine Learning and GUI Development	Chinmay Khurana
16.	Crime Prediction, Analysis and Criminal Tracking	Dr. Jaspreet Kaur
17.	Smart Wristband For COVID Patient Health Monitoring System	Sonali Awate

18.	Single Phase PWM Rectifier Is Method Of Converting AC/DC In Charging System For Electrical Vehicles	Ashlesha B Mali
19.	Separately Excited DC motor speed control by Neural Network controller	H Sumukh
20.	Analysis of Land Use and Land Cover Change in Okhla Bird Sanctuary	Manu Shukla
21.	Three-Phase Fault Analysis on Transmission on Line in Matlab Simulink	Harshal Vilas Patil
22.	Hybrid Solar-Wind Charging Station for Electric Vehicle and its Simulation	Shubham Uttam Ajbale
23.	Design and Simulation of Solar PV DC Microgrid for Rural Electrification	Prashant Gabhane
24.	Design And Analysis Of a Hybrid Based Battery Management System For Electric Vehicles EV'S	Mr Akash M Burbure
25.	Power Quality Improvement Of Hybrid Systems Using Active Control Method	Prashant shivkumar khandekar
26.	Review of Design & Development of Filtering Antenna for Bandwidth Enhancement	Kiran Hilal Sonawane

Day 1 (Technical Session 4)

Electrical and Electronics Departments

Sl No	Paper Title	Author Details
1.	Public Garden Automation Based on Solar Panel	Jagdish A. Patel
2.	The Benchmarking Performance Evaluation with the Cross-Shift Functional Unit.	DR.MANGESH D NIKOSE
3.	Wireless Monitoring of COVID Affected Patients Using Zigbee Communication	Dr. Omkar S. Vaidya
4.	Kids Tracking System Using LoRaWan Technology	Aniket Jagannath Ingale
5.	Implementation Of Transfer Learning Technique On Raspberry-Pi With Tensorflow	Prof.Dipak Patil
6.	Synthetic Aperture Radar Image Analysis for Change Detection	Sushant Pawar
7.	Wound Rotor Machine Fed By A Single_Phase Grid And Controlled By An Isolated Inverter	Bathula Reshma
8.	Flower Pollination based MPPT Algorithm for Integrated DC-DC Converters	Abhishek Singh
9.	High Step-up Interleaved Converter with VSI for enhanced power output from PV source	S.R.Akshaya
10.	Performance Evaluation of Different Tree-Based Regression Approaches for Forecasting Energy Prediction in Wireless Sensor Network Scenario	Monalisa Rath
11.	UAV Based Early Forest Fire Detection System	Sagar Sajeew
12.	Designing C Library for Modbus RTU to Modbus TCP & CAN IOT Converters	ABHAY SHARMA
13.	Implementation and Analysis of Steady State Behavior and Transient Stability Enhancement of Power Stabilizer by Using Progressive Integral PID Controller	Pritesh Mhaiskar
14.	POWER ELECTRONIC BASED ENERGY MANAGEMENT SYSTEM WITH STORAGE	Ashwini F. Kokate
15.	Fault Detection And Protection Of Induction Motor Using (PLC) Programmable Logic Controller	Ms. Payal S. Shende

16.	Neural Network Based MPPT Controller with Boost Converter For Fuel Cell Based Electric Vehicle Applications	Manish N. Bawangade
17.	Efficient Resnet Model for Atmospheric Visibility Classification	Yogananda Atreya
18.	Voltage regulation using DSTATCOM in distribution grid for enhancement of power quality	Mr.Ashish Vallabhakar
19.	Hybrid Solar and Wind Power Generation with Grid interconnection for Power Quality Improvement	Abhishek Gothe
20.	EXER-PAY	Akhil Thomas
21.	Assistive Technology for disabled and elderly	Swati pawar
22.	Power of quality improvement using STATCOM with renewable energy sources	Amruta Gaikwad
23.	New Bidirectional Intelligent Semiconductor Transformer for Smart Grid Application	Vaishnavi Sudhir Nakshane
24.	Artificial Neural Network Based Day Ahead Nodal Pricing	Kaustubh Rokamwar
25.	Design of High Step-up DC/DC Converter and Switched-Capacitor Techniques For Renewable Energy Applications Using MATLAB	Miss. Sanjiwani Wasekar

Day 1 (Technical Session 5)

CSE & IT Papers

Sl No	Paper Title	Author Details
1.	Product Recommendation System Using Machine Learning Based Collaborative Filtering Technique	Mrunal Gandhi
2.	Handwritten Digit Recognition Using Machine Learning Algorithms	Ritika Jaiswal
3.	Elderly Care Application	Jayashri Ghorpade
4.	Exploring Novel Adversarial Attack Strategies on Android Systems	Harshit Pandey
5.	Cloud Based Plant Disease Detection System	Sanjay Patidar,
6.	Detection Of Phishing Websites Using Convolutional Neural Network	Vinay Surtani
7.	Information Value Based Permissions Ranking in Normal and Malicious Android Applications	Siddhant Gupta
8.	Website Heatmap Prediction Using Computer Vision	Swapnil Kashyap
9.	Spam Review/Comment Detection and Removal Using Deep Learning	Mrunal Kashte
10.	Web Application For Molecular Solubility Prediction Using Machine Learning And Streamlit Framework	Rohan Shekhar Paunikar
11.	Spam Mail Detection utilizing Machine Learning	Rishav Tiwari
12.	A Study of Regularization Techniques in Deep Neural Networks	Sushma Priya Anthadupula
13.	Approaches to deal with bigger signatures for Post-quantum Transition	Kunal Meher
14.	Transport Management System	Mohith G C
15.	The Smart Car Parking System Using Android	Ankita Satav

16.	An insight into the technologies required for building an AI based Help Desk	Esha Chiplunkar
17.	Edura Hub: A cloud based electronic learning app	Nitesh Singh
18.	Image classification of hydroponic Fenugreek leaves.	Manjiri Gaikwad
19.	Efficient Multi-linear Key Pairing Cryptosystem for Reliable Cloud-based Service Provisioning	Dr.Sabout Nagaraju
20.	Multi-level Clustering Protocol to Reduce Energy Consumption of WSN: A Review	Shalini Sharma
21.	A REVIEW ON INTRUSION DETECTION SYSTEM	Isha
22.	Learning Management System	Shivani Kagliwal
23.	Comparison of Automobile Recommendation System using Various Machine Learning Algorithms	Adithya Krishna R
24.	A Comparison of Movie Recommendation Systems based on Random Forest, SVM and KNN	Harinarayanan K
25.	Android Based Women Safety & Security System	Jondhale Pradipti
26.	Multipurpose Human Following Smart Trolley	Darshan R Jadhav
27.	Survey on Prediction System for Student Academic Performance using Educational Data Mining	Nilesh V.Ingale
28.	A Comprehensive Study of Fake News Detection Using Machine Learning Techniques	Lalit Sonkeshariya
29.	Explainable Machine Learning Prediction of COVID-19 Infection from CT scan images using GradCAM++	Madhavi. M
30.	Autonomus Rover System	Sonia Bhadane
31.	Automatic Traffic Sign Detection and Recognition System	Balasaheb Tarle
32.	Subtitle Generation and Video Scene Indexing using Recurrent Neural Networks	Sajjan Kiran

Day 2 (Technical Session 1)

Mechanical Papers

Sl No	Paper Title	Author Details
1.	Vibration Analysis of Cantilever Beam using Magneto Rheological Fluid	Ms. Snehal Vitthal Patil
2.	Electric Vehicle chassis design and Structural Analysis by using CAD & CAE Techniques	Ishwar Bansode
3.	Optimization of socket in power lift gate assembly	Aniket Suresh Jagtap
4.	Experimental and FEA of Automotive Composite Leaf Spring Shackle	Prashant Pattar
5.	Experimental Testing and FEA Analysis of Composite Car Front Bumper	Priti Ramesh Deshmukh
6.	Design and Experimental study on Plastic-Metal Hybrid used in Automobile Industry	Vinay Gopal Vyas
7.	New product design and development of Sheet metal Pulley with high load carrying capacity to sustain higher RPM	Pratik Chaudhari
8.	A review on applications of nanofluids integrated to enhance heat transfer efficiency in high performance systems	Harshada Y Kolekar
9.	Vibration Analysis And Topographical Optimization Of Automotive Sheet Specimen	Mrutyunjaya G Hiremath
10.	Evaluation of Propagation Depth of Critically Refracted Longitudinal Waves in Materials with Finite Element Simulation	Vikas Dive
11.	Suspension Based Power Production for Electric Vehicle's Range Improvement	Jagdale Dattu B
12.	A Review on Developments and futuristic challenges in Compliant mechanism	Sandesh Solepatil
13.	Manually Operated Fertilizer Spreader	Sagar Sanjay Jaggi

14.	MODIFICATION IN MINI CNC MACHINE USING ARDUINO	Atharv Ambavale
15.	Design of cutting machine and improvement in rejection on foam machine	Kunal shinde
16.	Design and modelling of die threading machine	Shubham samadhan agale
17.	Optimization of Process Parameters in Turning Operation and Use of R.S.M. for Design of Experiments	Dr. N. L. Bhirud
18.	Solution of One Dimensional Linear Convection Equation using Different Finite Difference method	Prof. Kiran D. More
19.	Design and Investigation of Braking System in a Hovercraft prototype with Full Basic Function	Sachin Chede
20.	Review on design and manufacturing of thermal heat storage tank using molten salt for CSP	Pankaj Dnyaneshwar Chaudhari
21.	Design and Analysis of Compact Shredder Machine used for Recycling of Face Masks and Medical Additives	Piyush Jagdale
22.	Optimization of Car Bumper Beam for Low speed impact using FEA.	Bhushan Shivshankar Dorik
23	P67 Steer Axle Drop Test	Shrikant Hanamnt Kumbhar

Day 2 (Technical Session 2)

Civil Papers

Sl No	Paper Title	Author Details
1.	Assessment of present and future drought condition for the district of Bankura, W.B	Kush Kumar Dey
2.	GIS Mapping of Cohesion and Friction Angle for Large Scale Landslide Susceptibility Assessment	Cheryl F. Daleon
3.	Evaluating the prediction model of shear cracking characteristics in RC beams with side face reinforcement	Irish Tambis
4.	Rainwater Harvesting -An Effective Implementation in Coastal Area of Mumbai	Jyoti Nimje
5.	Utilization Potential of Bagasse Ash, Lime Sludge, and Coal Fly Ash Blend in Concrete as Replacement of Ordinary Portland Cement	Ma. Catherine Q. Arca
6.	Developing the condition Index to find out the condition of ESR in Nashik District by DER Method	Shrikant R. Baviskar
7.	Valuation of Property by Cost Approach & by Market Approach	Rohit Sunilkumar Chopada
8.	Optimization of Conjunctive use by LINGO & PSO for water resources management in irrigation command of Khatav taluka	Ranjeet Sabale
9.	Building Integrated Photovoltaic (Solar Window)	Mahendra Babanrao Patil
10.	Solar Window (BIPV)	Jay Rawal
11.	Experimental Study On Fibre Reinforced Concrete Incorporating Banana Fibre	Ravindra Narendra Patil
12.	Center Pivot System Of Irrigation	Kisan Laxman Bidkar
13.	Sprinkler Irrigation System	Dr K.L.Bidkar
14.	To Study the Effect of Bio-Filter for the Treatment of Waste Water	Manish Mohan Ingale

15.	Use of Recycled Aggregate in Reinforced Concrete Pavement	Vishal B Shinde
16.	Land Shaping For Irrigation	Kisan L Bidkar
17.	Watershed Management Of Bindusara River Using QGIS.	Pradnya Anil Mahire
18.	U-Loop Traffic System	Prof.V.B.Shinde
19.	Role Of Shear Deformation Function On The Flexural Parameters In The Functionally Graded Beam	S A Patare
20.	An Experimental Study On Properties Of Rice Husk Ash For Replacement Of Cement In Concrete	Om V Vaidya

Day 2 (Technical Session 3)
Electrical and Electronics Papers

Sl No	Paper Title	Author Details
1.	Transmission Fault Detection Using Synchrophasors	NEHA VIJAY KHADSE
2.	Switching Action Study of Bismuth-Graphene Based Top-Gated Spin-Field Effect Transistor	Neetu Gyanchandani
3.	Mitigation Technique for Sybil Attack in Mobile Ad-hoc networks	Dhanashri Saindane
4.	Open and Closed Loop Analysis of BLDC Motor	Sheikh Mohammad Sajid
5.	Control Scheme Based on Quasi Z-Source Network for Four Switch Three Phase Brushless DC Motor	Manjeet Sakhare
6.	A Review paper on Number Plate Recognition by using Matlab	Pritee Vijaykumar Bandal
7.	Optimization Of Learning Rate For Simulation Of Transistor Characteristics Using Artificial Neural Network	Sooraj N S

8.	Comparative Analysis of Image De-noising in Ultrasound Images of Ovarian Masses	Ms.Smital Dhanraj Patil
9.	Harmonic Rejection in Rectangular Microstrip Patch Antenna using Defected Ground Structure	Pravin Bhole
10.	Step-by-Step Designing and Implementation of Ring Oscillator Physical Unclonable Function for Hardware Security	swati kulkarni
11.	Avoidance of Animal-Vehicle Collision in Self Driving Cars using YOLO	Jeel Padiya
12.	Design And Development Of Rf Detector	Tanvi sharma
13.	Smart Shopping Trolley for Blind	Christina D
14.	Design of A Secure Passive Optical Network Using Hybrid TDM/WDM Technique for Higher Data Rates	Gurjit Kaur
15.	Design and performance analysis of Free Space Optical Communication System (FSO) for Pondicherry weather condition	Gurjit Kaur
16.	A Review On Charging Methodology For Electric Vehicles	Anjali Gaikwad
17.	A New Hybrid Concept UPFC Control Design for Power Flow Control and Voltage on Neuro Modelling System Using MATLAB	Ms.Shradha Dhargave
18.	Smart Helmet For Underground Mines With OTA	Dnyanesha Dhaytadak
19.	Object Detection And Tracking Using Deep Learning	Sanket P. Kanzarkar
20.	Visual Object Tracking Based on Normalised Cross Correlation and Least Square Estimation	Ashwani Kumar
21.	ILD image processing using Fuzzy Approach algorithm	Anni U. Gupta
22.	Failure Analysis of Automotive Radiator Plastic Tank	Dipak Bhimraoji Khule
23.	Effect of electric spring in minimizing voltage fluctuation in critical loads	Samuel shrawan Tandekar

24.	Performance Analysis of Image Thresholding Methods On Cervical Cancer For Segmentation	pratiksha nandanwar
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Day 2 (Technical Session 4)

Other Departments

SI No	Paper Title	Author Details
1.	Institute Recommendation System Based on Weighted Average Algorithm and Machine Learning	Rinky Chhabra
2.	PIDroid: Android Malware Detection using Permissions and Intents	Gourav Garg,
3.	Effect of Al content on cyclic oxidation behavior of AlCoCrFeNi high entropy alloy	Sudeep Kumar T
4.	On Feature Ranking for Computer Networks Intrusion Detection	Somya Sharma
5.	Comparison of minimum and maximum values of water levels above mean sea level in three different phases of underground tunnel construction	Dr.R.Lilly
6.	Design and Implementation of Optimal Electric spring for Stability and Voltage Regulation in Distribution Networks	Deepa Gautamrao singanapure
7.	Universal 4-20mA IOT node	Madhura Deshpande
8.	Design and Validation of Gear Pump using Structural and CFD Simulation	Swapnil Pimpalshende
9.	Design and analysis of Belt Conveyor Components for weight Reduction and Structural strength Enhancement.	Suraj Bagal
10.	Modelling and simulation of Alkaline Water electrolysis	Lakshman Naik R
11.	Design, Analysis and weight optimization of rotary table faceplate	Akshay Mahajan

12.	Graph Theory and It's Applications	Dr. Megha Abhiman Bhamare
13.	Parameters in Environmental Impact Assessment(EIA)	Moumita Maity
14.	Design and Performance analysis of Rectangular Patch Antenna for Ku band applications for Ku band applications	A.Suneel Kumar
15.	Theft Detection using Vehicle Number Plate Recognition System	Arti Vilas Bhalerao
16.	Epidemic and Epileptic Seizure disease prediction and Classification using Convolutional Neural Network	Poonam Rana
17.	Travel Chatbot for Recommendation as per the User Preference	Ujwal Kinge
18.	A Critical Analysis of Compensation Management's Impact on Employee Retention of Large scale industries in Nasik	Swapnil Bandu Ambekar Sarika Patil
19	Design and Static Analysis of Aluminum Honeycomb Structural for Helmet Shell by FEA	Kiran Kadam

Day 2 (Technical Session 5)

CSE & IT Papers

Sl No	Paper Title	Author Details
1.	An Analytical Comparative Study On Clustering Algorithm To Measure Quality Among Clustering Algorithms	Mahesh K Varier
2.	Comparative Study of Temperature Prediction Using Different Machine Learning Algorithms	Shraddha Kailas Nikam
3.	Modeling of resonance frequencies for the four tooth-shaped microstrip antenna using neural networks	Zufar Kayumov
4.	Location-based Mutual Authentication Scheme for Cardless ATM Transaction	Wilawan Rukpakavong

5.	Answer Evaluation system for different domains	Alok Kumar
6.	A literature Survey of on the Design Issues on RIS and IRS-aided Wireless Networking	Nitin Dwivedi
7.	Credit Card Fraud Detection	Shalini Sinha
8.	Desktop Assistant	Devbrat Singh
9.	Farmvil	Tanishq Pundir
10.	Trust Management Models for cloud computing: A Literature Review	Harsh Taneja
11.	ROBOT TRACING LINE USING ALGORITHM	Priyanshu Joshi
12.	Stock market price prediction using Recurrent Neural Network and LSTM	Sahil Sanjay Landge
13.	Subscription Management	B Mohammad Azzam
14.	Movie Recommender System Addressing Data Sparsity Through Collaborative Filtering	Shikhar Saini
15.	Reviewing suitable supervised clustering algorithm for enhancing effective customer segmentation	Gurunanje Wodeyar Mg
16.	Paramedic: Ambulance System for Emergency Services	Saima Siddiqui
17.	Face Recognition Based on Convolutional Neural Network	Pavithra. M
18.	Computational model for preventing health hazards	PANKAJ RAHI
19.	Comparative Study on Performance Analysis on Brain Cancer MRI using Image Thresholding Techniques	AKSHITA CHANCHLAN I
20.	Organ Donation Application Using Blockchain Security	Vishram Sawant
21.	A.I Based Document Digitization	Sujoy Dev
22.	Drowsiness Detection using Light Framework	Chirag Gupta

23.	Comparative Study of Big Data Frameworks using Machine Learning Algorithms	Sucheta Kolekar
24.	Stress Detection in IT Professionals by Image Processing and Machine Learning Techniques	Dr. Suresh M B
25.	Blockchain Application Issues and Challenges:A Study	Neha Yadav
26.	Big Data Analytics and Protection against Sensitive Data Exposure for Web Security	Shivangi Mehta
27.	Suraksha Kavach: An Android App to combat a pandemic	Nishant Boro
28.	Authorization and Authentication of User Using License Checking for Automobile	Dhwani H. Jha
29.	A Real Time Intelligent Application for Facemask detection and Notifying using Deep Learning	Suhasini Sodagudi
30.	The significance of application of HCI concepts and methods in analysis, design, and evaluation of interactive technologies	Aryan Grover,Shiv ansh Gupta
31.	Dark Pattern use in E-commerce	Aryan Grover,Shiv ansh Gupta
32.	Comparative Analysis of Image Enhancement Approaches for Infants Brain MR Images	Mr. Vinodkumar Ramesh Patil
33.	Sign Language Recognition using Machine Learning	Abhimanyu Umrani

6.3 Highlights Day 1 and 2

Day 1 of IETET Conference consist of 1 session and Day 2 consists of another technical session.

Best paper and presentation awards

Sl No	Paper Title	Author Details	Session	Stream / Branch
1.	Explainable Machine Learning Prediction of COVID-19 Infection from CT scan images using GradCAM++	Madhavi. M	Session 1	Computer and IT
2.	Edura Hub: A cloud based electronic learning app.	Nitesh Singh	Session 2	Computer and IT
3	Comparative Study of Temperature Prediction Using Different Machine Learning Algorithms	Shraddha Kailas Nikam	Session 3	Computer and IT
4	A.I Based Document Digitization	Sujoy Dev	Session 4	Computer and IT
5	Product Recommendation System Using Machine Learning Based Collaborative Filtering Technique	Mrunal Gandhi	Session 5	Computer and IT
6	Crime Prediction, Analysis and Criminal Tracking	Dr. JaspreetKaur	Session 1	Electrical & EnTC
7	Transmission Fault Detection Using Synchrophasors.	NEHA VIJAY KHADSE	Session 2	Electrical & EnTC
8	Design and performance analysis of Free Space Optical Communication System (FSO) for Pondicherry weather condition.	Gurjit Kaur	Session 3	Electrical & EnTC
9	Deep learning proposition for Pneumonia detection in Chest X-Ray.	Yogesh Risodkar	Session 4	Electrical & EnTC
10	Power Generation on Highways using Vertical Axis Wind Turbine and Solar Energy	Mosom Sangole	Session 5	Electrical & EnTC
11	A Review paper on number plate recognition by using MATLAB	Pritee Vijaykumar Bandal, Prof. M.G.Nakrani, Dr. U.B. Shinde	Session 6	Electrical & EnTC
12	Evaluating the prediction model of shear cracking characteristics in RC beams with side face reinforcement.	Irish Tambis	Session 1	Civil
13	Future and usability of electric bike.	Purva Phad	Session 1	Mechanical
14	The Impact of Innovative Methods Based on Students' Learning Styles on Effective Learning	Mr. Sanjaykumar Ingale	Session 2	Mechanical

15	A Review on Developments and futuristic challenges in Compliant mechanism.	SandeshSolepatil	Session 3	Mechanical
16	Evaluation of Propagation Depth of Critically Refracted Longitudinal Waves in Materials with Finite Element Simulation .	Vikas Dive	Session 4	Mechanical
17	Design And Fabrication Of Automated Waste Segregation Machine	Ahmeddraza H. Ansari	Session 5	Mechanical
18	Some Studies On Portable Solar Dryers And A Proposed Novel Conceptual Design Of Portable Solar Dryer . (MECHANICAL-Dr. KALPANDE)	Dr. Niteen L. Bhirud	Session 6	Mechanical
19	Proposed relationship to develop discharge formula for flow through pipe ¹⁰	Ankitkumar,Kunal Desale	Session 7	Mechanical
20	Design and Manufacturing of Auto removal crop protection shade and it's prototype	Dr. L.K.Toke, Yogesh Kirtane	Session 8	Mechanical
21	Design & Performance Evaluation of Eco-Cooler by Varying Different Parameters	Anil Dube	Session 9	Mechanical
22	Design and Validation of Gear Pump using Structural and CFD Simulation (Science)	Swapnil Pimpalshende	Session 1	Applied Science / MBA /Other
23	Institute Recommendation System Based on Weighted Average Algorithm and Machine Learning	Rinky Chhabra	Session 2	Applied Science / MBA /Other

7. Survey Analysis

7.1 Registered Statistics

Total Paper Received: 535

Total Papers accepted: 392

Total Paper Registered: 268

Listeners: 2

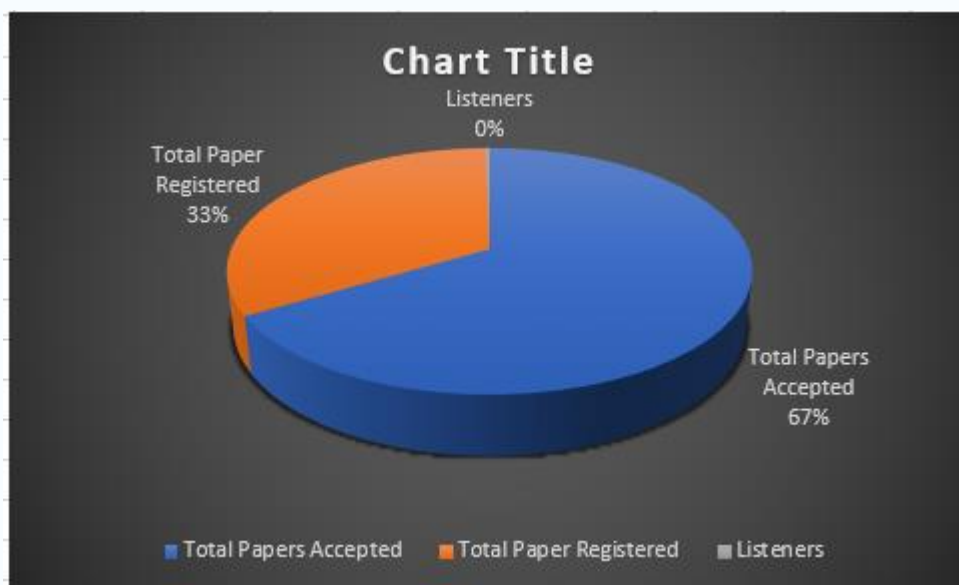


Image :Registration Statistics

8.VALIDICTORY

First valedictory speech was given by



Prof. (Dr.) Anil S. Dube
H.O.D Mechanical,
Sandip Institute of Engineering and Management

Secondly valuable valedictory speech was given by



Mr. Rudra Bhanu Satpathy

CEO

Technoarete Group

9.VOTE OF THANKS:

Vote of Thanks was given by

Prof. P. P. Kulkarni, Co-Ordinators, ICETET

Assistant Professor

Department of Mechanical Engineering, SIEM

The International Conference on Emerging Trends in Engineering and Technology (ICETET-2021) held on the 07th & 08th July 2021 organised by Department of Mechanical Engineering, Sandip Institute of Engineering and Management, Nashik in Association with the Institute for Engineering Research and Publication (IFERP). The conference was organized with a focus on Engineering, and Technology” and it was a great success where eminent keynote speakers from various universities addressed the gathering.

The generous response and active participation of the Organizing Committee Members and Editorial Board members of Engineering, Social- Sciences A Humanities we take the opportunity to thank all the speakers, delegates and participants for providing their valuable support and time for ICETET 2021.

Organizing Committee would like to thank the Moderator of the conference, and who contributed a lot for the smooth functioning of this event.

congratulates the Best Paper, Best paper Presentation awardees for their outstanding performance in the field of Engineering, Social- Sciences A Humanities and appreciates all the participants who put their efforts in poster presentations & Young Researchers form and sincerely wishes them success in future endeavours. We would like to thank the Dr. Marina S. Apilado, Vice President for External Affairs and Quality Assurance, Eastern Samar State University, Philippines for their value judgment. We would like to thank the

10.CONCLUSION SUMMARY

ICETET 2021 was a success event organized by IFERP amid the COVID19 with a collective effort from host organization, Organization committee members and all participants.This

event provided a learning experience to all and shape ourselves to near future. We would like to conclude with Thank you to all.

Our Associates

