



**International Conference on  
Science, Technology, Engineering  
and Mathematics (ICSTEM-22)**

**Date: 28<sup>th</sup> May, 2022**

**Organized By,**

**Jansons Institute of Technology, Coimbatore, India.**

**In Association with**

**Institute for Engineering Research and Publication (IFERP).**

**CONFERENCE REPORT**

## Event Summary

**Event Name:** International Conference on Science, Technology, Engineering and Mathematics (ICSTEM-22)

**Date:** 28<sup>th</sup> May, 2022

**Conference Organisers:** Jansons Institute of Technology, Coimbatore, India.

& IFERP

**Delegates:** 130 Papers Registered

### Overview:

ICSTEM 2022 Organized By JIT & IFERP Was Held on 28<sup>th</sup> May, 2022 As Virtual Conference And It Was Held Under The Auspices Keynotes **Dr. Sanjay Sethi** Founder and CEO, AntarDhwani, Inc. San Jose - “Silicon Valley” - California, USA, and **Prof. Aiman Eid Al-Rawajfeh**, Full Professor, Desalination and Chemical Industries, Department of Chemical Engineering, Tafila Technical University (TTU), Jordan

Theme For The Conference Is “Advance In Science, Mathematics and Technology” The Latest Research And Results Of Scientists (Preferred Students, Post Graduate Students, Research Scholars And Post-Doc Scientists) Related To Science & Mathematics also Design Applications, Artificial Intelligence, IOT And Machine Learning From Various Departments Of Engineering And Technology Which Includes Electrical, Electronics & Communication 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.

The Conference Attracted 190 Authors Of Various Fields To Come Forward To Register For ICETET 2022, Which Includes Students, Faculties, Research Scholars From Various Departments Of Various Categories Like UG & PG Students, Researchers, Technical Persons From Industries, Professors & Heads And So On. Most Of The Presentations Were Adhered With Advancement, Inclusion Of Agrisight, Engineering & technology, Algebraic Subjects, Mathematical Calculations And Electronics Applications.

### Delegate Registrations

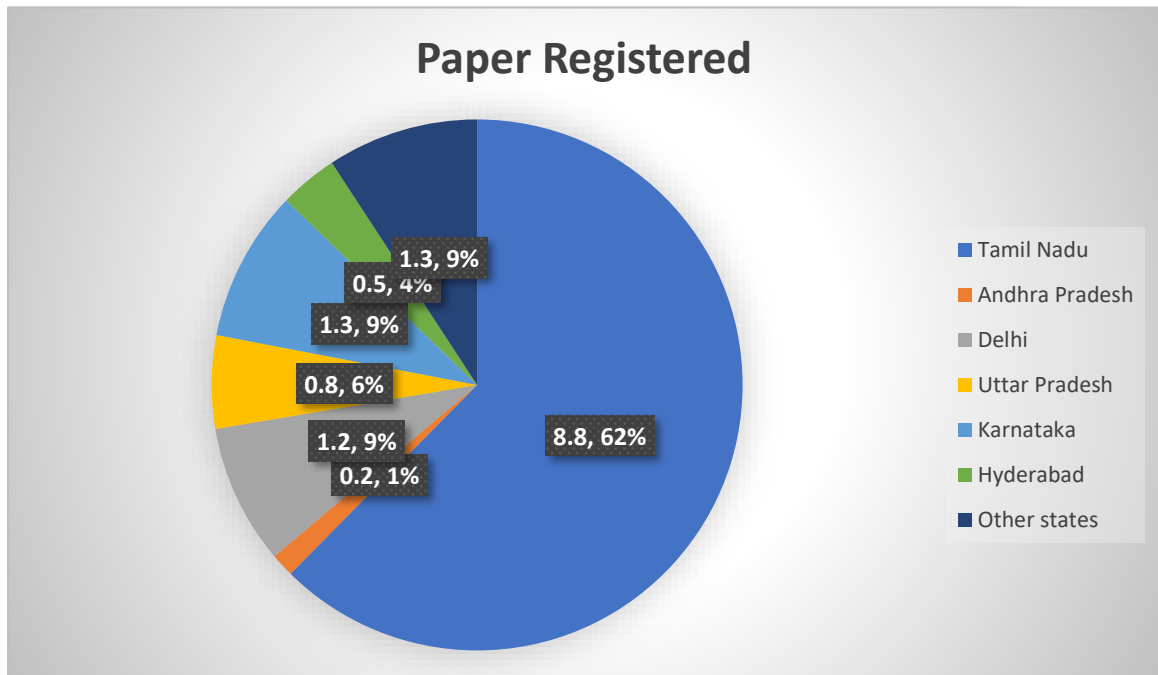
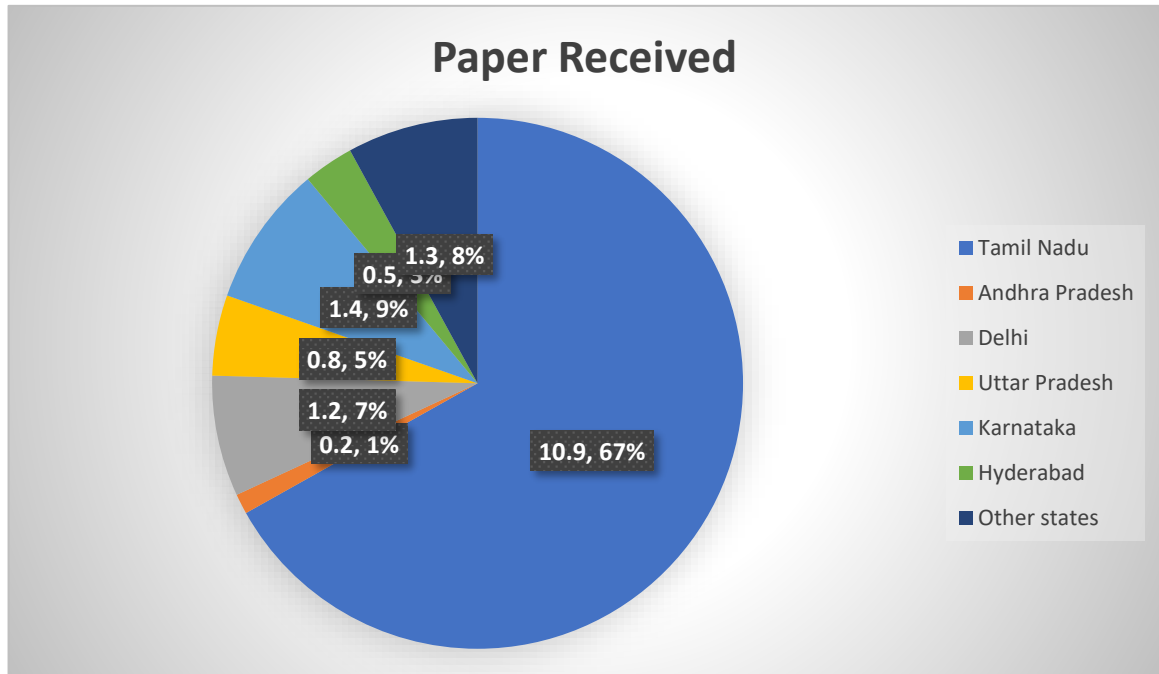
Total Abstracts: 190

Registered: 130

Virtually Presented: 85

With 3 Keynotes (2 Keynotes For Inauguration And 1 For Valedictory), 12 Session Chairs Which Includes External As Well As Internals From Colleges Who Made The Session As Knowledge Packed With Various Questionnaires And Discussions With Presenters

**Abstract Received and Registered Status State wise:**



**Conference Committee:**

**Chief Patron:**

**Rtn.MPHF.Shri. T.S.Natarajan** - Chairman, JIT, Coimbatore

**Patron**

**Shri. T.N.Kalaimani**

**Shri. T.N.Thirukumar** - Vice-Chairman, JIT, Coimbatore

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**Dr.M.Muthukumaran** - PROF & HEAD - MECH, CO-CONVENER, JIT, Coimbatore.

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**Dr. P. Meena Sundari** - PROF. CHEMISTRY, JIT, Coimbatore.

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Dr.M.M.Matheswaran	ASP/Mech
Dr.L.Anojkumar	ASP/Mech
Dr.K.Senthamilselvan	Prof/Chem
Dr. R.Senjudarvannan	Prof/Phy
Mrs. P. Kavitha	AP/Maths
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Dr. G.Bhavani	Prof/Phy
Mrs. N. Nithya	AP/Maths
Ms. D. Karthika	AP/Maths

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Dr.M.Muthukumaran	Prof & Head - MECH
Dr.B.Senthilnathan	Prof. MATHS
Dr. D. Geethalakshmi	Prof. PHYSICS
Dr. P. Meena Sundari	Prof. Chemistry

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Mr.S. Prakash	AP/ECE
Mrs.S.Sandra	AP/ECE
Mr.V.Murali	AP/Mech
Mr.M. Magesh	AP/Mech
Mr. V. C. Thilak Rajkumar	AP/Maths
Mrs. M Ramya	AP/Maths

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Associate Professor & Head, Computer Science & Engineering, Lokmanya Tilak College of Engineering, Navi Mumbai, Maharashtra, India

**T. S. KARTHIK**

Professor, ECE, Aditya College of Engineering & Technology, Surampalem, Andhra Pradesh, India

**KEYNOTE SPEAKERS:**

**1. Prof. Aiman Eid Al-Rawajfeh**

Full Professor, Desalination and Chemical Industries  
Department of Chemical Engineering, Tafila Technical University (TTU)  
Jordan.



**Title:** Dual Pre-treatment – Concentration Hybrid Process of Desalination Plants Feed and reject

**2. Dr. Sanjay Sethi**

Founder and CEO, AntarDhwani, Inc.  
San Jose - “Silicon Valley” - California, USA



**Title:** Heralding A Revolution In Medical Devices And Semiconductors

**Abstract Process:**

- Fake News Detection.
- Detection of Objects with the Haar Cascade Machine Learning Algorithm.
- Home Ctrlware: Design and Fabrication of Home Automation System.
- Combinational Features with Centrality Measurements on GCN+LR classification of Adversarial Attacks in Homogenous Graphs.
- Utilization of stabilized pond ash as an effective landfill barrier.
- Deep Learning-Based Gender Estimation from Face Images Using PCA and LBP.
- Manufacturing of Brick by Waste Plastic.

- Handwritten Text Recognition using CRNN and CTC Loss.
- Image Analysis for Malaria Parasite or Uninfected Detection Using Ensemble Techniques.
- Evaluating the Efficiency of Activated Carbons from Organic Solid Waste for the Removal of Textile Dye Employing Artificial Neural Network Modeling.
- Knee Osteoarthritis Indicators Estimation and Progression Analysis.
- Smart Sustainable Agriculture Solution Using Iot and Ai towards Effective Cultivation.
- Smart Solar Energy Management System Based on Weather Data Using IoT.
- IoT Based Manhole Detection and Monitoring System.
- Early Predictor of Retinal Diseases by Image Processing.
- IoT Application on Secure Smart Shopping System.
- Smart Meter and Automatic Electricity Monitoring System.
- Overview of Bakelite and Ceramic Waste Powder as a Partial Replacement of Fine Aggregate in Concrete.
- An Approach for Identifying Grape Leaf Disease and Detection of Black Rot Disease in Grape Plants.
- Health Monitoring System.
- Image Encryption using Combined Chaos and Memory Cellular Automata.
- IoT Based Health Monitoring System Using Node MCU.
- Smart Nutri-Assistant Using Machine Learning Techniques.
- An Intelligent Graphic Eye with Text-To-Speech Converter for Blind People.
- Automatic and Hygiene Sanitation in Public Settings for Physically Disabled Persons.
- Precision Agriculture Using Hanging Robot .
- A Smart Alert System for Maintaining Social Distance for the Disabled with Health Monitoring.
- Automatic Plant Watering System.
- Design and Simulation of SEPIC Converter.
- Approaches To Make Cloud Computing Green.
- Better Combination of Service Broker Policy and Load Balancing Algorithm for Greener Cloud Computing.
- Time Series Forecasting of HIV/AIDS in the Philippines Using Deep Learning: Does COVID-19 Epidemic Matter?
- Object Detection and Alert System for Complex Weather Road Environment.
- Fermentative Production of  $\beta$  -Galactosidase Using Mutative Strains of Microorganisms.
- Antimicrobial and Antimycobacterial study of various indigenous medicinal Plants and it's Phytochemical analysis.
- Production of Bioplastic by Using Leather Industry Waste.
- Engineering of Petha Waste (By Product) Into Laboratory Grade Nutrient Growth Media.
- Computational Analysis of the Potent Granuloma forming protein in Mycobacterium abscessus (NTM) species.
- Fog Drive Disaster Backup as a Service for Cloud Server and Fog Computing.
- Process Parameter Optimization for the Production of Nanobioplastic using Agricultural Waste.
- BrandChain: Product Anti-Counterfeiting System for Online and Offline Sales using Blockchain Technology.
- Secure Data Sharing Using Cloud.
- Experimental Study on Plasticity Characteristics of Dye Contaminated Soil.
- Design of Energy Efficient Magnitude Comparator Architecture using 8T XOR Gate.
- Heart Disease Prediction using Machine Learning.



- A Vehicle Speed Control System for Low Speed Zones with Automatic Emergency Vehicle Clearance.
- A Framework for Android Based E Commerce Application for Shopping.
- A Smart Mask for Active Defense against Corona Viruses and Other Airborne Pathogens.
- E Saline Bottle Monitoring System Using IoT.
- Web phishing detection using a deep learning Framework.
- Drop-casted C-Pani and C-Pani/TiO<sub>2</sub> np hybrid thin films - Synthesis and Characterization.
- A Smart Bus Ticket Booking System Using Raspberry pi.
- Estimation of Antioxidant Capacity of Differnet Crude Extracts of Azadirachta Indica Leaf and Protein Analysis through Page.
- Swarm Optimization Based Intrusion Detection System.
- Psychological Immunity, Attachment, and Technology: Exploring the Influence of Technology on Attachment and Psychological Immunity of Secondary School Students.
- Performance of Soil Prediction Using Machine Learning For Data Clustering Methods.
- Projective Exploration on Individual Stress Levels using Machine Learning.
- Face Mask Detection Using Machine Learning Technique.
- Classification of COVID-19 in X-Ray Images Using Deep Learning.
- Diagnosis of Chronic Kidney Disease using Deep Learning.
- Android Based Diagnosis of Pest and Plant Disease Using TensorFlow
- Seamless Call and Messenger System without Internet Using Mobile To Mobile Communication.
- Stroke Prediction Using Machine Learning Algorithm.
- Calm Care Solutions : Heart Attack Detection Using Machine Learning.
- Production of Erythritol on Industrial Substrates.
- Poly-3-Hydroxybutyrate Production Using Methylocystis Hirsuta from Methane.
- Analysis of Arithmetic Operations for Fuzzy Numbers.
- Comparative Analysis of Defuzzification Techniques for Fuzzy Output.
- Smart Vehicle Accident Alert System.
- Unifying Architecture to Generate Descriptions: Features To Text.
- Synthesis and Characterization of a Novel Ce (Iv) Ion Imprinted Polymer Network Based On Alginate Acid and Crosslinked Polyacrylamide.
- Air and Noise Cognizer using IoT and Machine Learning.
- Landslide Detection Using Machine Learning Algorithms.
- Sushrut - Diagnosis Made Easy.
- Malware Propagation via Website Compromise: An Analysis of Attacker Methods and Detection Techniques.
- Systematic Transportation of Manure Using Antcolony Optimisation
- SEVA: Secure E-Voting Application.
- Planogram Automation and Shelf Space Planning: The Need of the Hour.
- ForwARd – An Augmented Reality Application to Assist in Visualization.
- Forensic Application using Deep Learning.
- Sterile Insect Technique - A Novel Method for Control of Mosquito-Borne Diseases
- HomeNet Shield.
- Survey on Detection of Fraud on Credit Card using Machine Learning.
- Human Activity Recognition from Video Using PSO Algorithm with LSTM Method.
- A Study on Machine Learning Algorithms.
- Liver Tumor Detection in Multi Phase CT Images by Phase Attention Mask RCNN.
- A Novel Heart Rate Monitoring System for Paralyzed and Mute People.
- A Survey on Stock Movement Predictions.

- Water Quality Prediction for Smart Mariculture.
- Lane and Object Detection for Accident Prevention in Automated Cars.
- Development of an Anti-Theft Vehicle Security System using GPS and GSM Technology with Biometric Authentication.
- End to End Data Security Using Modified AES.
- IoT Based Low Cost Smart Ambu-Bag Compressing Machine for Low Cost Ventilators
- Stock Price Prediction Using Machine Learning.
- Patient Health Monitoring System Using IOT.
- Door Unlock System with Face Recognition Using Modified Adaboost Algorithm.
- Influence of fiber treatment on morphology and mechanical behaviour ofhibiscus canabinus with curaua fiber.
- Experimental investigation on Mechanical properties of laser weld and cold welded CR sheet metals.
- Prototype Design for Smart Home Water Level Control System using LoRa.
- Prototype Design for Real-Time Emergency Vehicle Siren Sound Detection Using Pic Microcontroller.
- IoT Based Field and Plant Monitoring System Using Open CV
- A Low Cost Smart Wearable Nutrition Tracker for Health Analysis..
- Real Time Warning System for Drivers Using IOT.
- Accident Detection and Alert System Using GPS and GSM.
- Malicious URL Prediction using Machine Learning.
- Numerical Analysis of Friction Stir Welded Dissimilar Joints.
- Drowsiness Alert System Using IoT.
- Study of Battery Management system using Buck Converter.
- Numerical Analysis of Different Tool Profile for Friction Stir Welding.
- Design and Development of Novel Deep Drawing System for Superalloy Thin Walled Components.
- Facial Mask Recognizer Using Machine Learning.
- Production of Erythritol on Industrial Substrates.
- Root Finding Algorithm.
- Virtual Toll Collection System.
- KINISI EMS: Emergency Medical Services.
- Colouring of Grayscale Image using Generative Adversarial Network.
- Deep Learning Based Feature Description for Correlation Filter Tracking.
- Brain Tumour Segmentation using K-Means Clustering and Fuzzy C-Means Algorithms and its Area Calculation.
- Deep Learning for Whole Brain Cognitive Decoding.
- Vehicle Accident Detection and Locating using GSM and GPS.
- Smart ATM security using vibration sensor and DC motor.
- Automatic Human Follower Trolley Using Huskylens.
- A CNN Model for Disease Detection in Potato Leaves.
- Projective Exploration on Individual Stress Levels using Machine Learning.
- A Smart Energy Meter with Power Theft Monitoring and Home Automation using IoT.
- River Cleaning and Water Quality Monitoring System Using Turbidity Sensor.

**General comments and Feedbacks:**

- Well Organized Conference.
- More social networking time.
- An additional day to incorporate more time for discussion and dedicated time for poster sessions.
- Delegate contact list very useful.
- Well organized but could have extend the presentation timings.
- Happy to be a Part of this International Conference.

**END OF THE REPORT**