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About ICASET 2026

"Innovating for a Sustainable Future through Science and Technology" emphasizes the critical role of interdisciplinary research and innovation in solving global challenges. By fostering collaboration between academia, industry, and policymakers, ICASET - 2026 aims to create practical, scalable solutions aligned with the United Nations Sustainable Development Goals (UN SDGs). This conference is dedicated to advancing knowledge, promoting ethical innovation, and empowering future leaders to build a sustainable, technologically advanced, and equitable world.

Conference Theme & Objectives

Conference Theme

Innovating for a Sustainable Future through Science and Technology.

❖ Objectives of the conference

- **Promote Interdisciplinary Collaboration:** Encourage meaningful partnerships among researchers, academicians, and industry professionals to address global challenges through science and technology.
- **Encourage Innovation:** Highlight cutting-edge research, emerging trends, and technological advancements that contribute to sustainable development.
- **Facilitate Knowledge Exchange:** Provide a dynamic platform for sharing research insights, best practices, and innovative solutions across diverse disciplines.
- **Bridge Theory and Practice:** Integrate academic research with real-world applications to develop practical, scalable, and impactful solutions.
- **Support Sustainable Development Goals (SDGs):** Inspire initiatives and research that contribute to a sustainable, inclusive, and technologically advanced future.
- **Enhance Professional Growth:** Offer opportunities for networking, skill development, and recognition through technical sessions,

workshops, and paper presentatio

❖ **Conference Overview**

The 5th International Conference on Advances in Science, Engineering & Technology (ICASET-2026) was successfully held on 22nd & 23rd March 2026. Organized by IFERP Academy, the conference brought together a global community of academicians, researchers, scientists, and industry professionals to share knowledge and explore advancements in science and technology.

Centered around the theme, “Innovating for a Sustainable Future through Science and Technology,” the conference emphasized the importance of technological innovation and interdisciplinary research in addressing current global challenges and promoting sustainable development.

ICASET-2026 served as a dynamic platform for the presentation of high-quality research, fostering collaboration, and encouraging insightful discussions on emerging trends and innovations across various domains of science, engineering, and technology. The conference also provided participants with valuable opportunities for networking, professional growth, and knowledge exchange.

The conference proceedings, published under the ISBN 978-81-981425-8-0, represent a curated collection of peer-reviewed research contributions highlighting recent developments and future directions in the field. Participants were awarded 16 CPD Credit Hours, recognizing their active engagement and contribution to the conference.

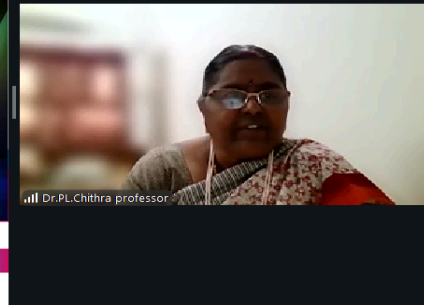


ARTIFICIAL INTELLIGENCE (AI)



ARTIFICIAL INTELLIGENCE IS THE SIMULATION OF HUMAN INTELLIGENCE PROCESSES BY MACHINES, ESPECIALLY COMPUTER SYSTEMS.

- **Learning:** This aspect of AI programming focuses on acquiring data and creating rules for how to turn it into actionable information. The rules, which are called algorithms.
- **Reasoning:** This aspect of AI programming focuses on choosing the right algorithm to reach a desired outcome.
- **Self-correction:** This aspect of AI programming is designed to continually fine-tune algorithms and ensure they provide the most accurate results possible.
- **Creativity:** This aspect of AI uses neural networks, rules-based systems, statistical methods and other AI techniques to generate new images, new text, new music and new ideas.



Dr. PL. Chithra, Professor and Head, DCS, UNOM

22.03.2026

zoom Workplace Meeting ROHITHA S's screen

Participants (35)

| Station Name | Urban Context Type | Why Selected (Based on Criteria) | Key FLMC Strength | Key FLMC Challenge |
|-------------------------------|--|---|--|---|
| CMBT Metro | Major Transit Hub / Intercity Bus Hub | Serves as a major multimodal hub (Metro + CMBT bus terminal + para-transit), supports high trip diversity | Strong intercity + city bus connectivity | High congestion & pedestrian safety conflicts |
| Alandur Metro | Transit Interchange Zone | First major interchange with significant peak movement generated by corridor transfers | Efficient internal connectivity with feeders and parking | Walkability gaps and para-transit clutter |
| St. Thomas Mount Metro | Suburban Rail Node / Multimodal Rail Cluster | Only metro station providing integration with suburban rail + metro + MRTS network | Regional-level transit access | Poor pedestrian circulation and weak wayfinding |

Location of the study area - Chennai, Tamil Nadu, India

5th International Conference on Advances in Science, Engineering & Technology (ICASET)

Participants: palani kumar (IFERP), ROHITHA S, Benedict joshua M, Santhosh

Chat: link for session 1.4 and 2.4, thank you sir

You are viewing Harsha vardhan Challuri's screen

Problem Statement

- No physical supervision
- Easy cheating using mobile or other devices
- Getting help from others during exam
- Fake test-taker (impersonation)
- Tab switching / browsing answers

Getting Answers Fake Test-Taker

5th International conference on Advances in Science, Engineering & Technology (ICASET)

Video feed of Harsha vardhan Challuri

5th ICASET - 2026

Conference at a Glance — Key Statistics

5th ICASET-2026 witnessed active global participation and meaningful academic engagement, reflecting its growing impact and reach in the field of multidisciplinary educational research

Key Highlights

| Countries Represented | Total Participants | Technical Sessions (Day 1) | Technical Sessions (Day 2) | Total Sessions Covered |
|-----------------------|--------------------|----------------------------|----------------------------|------------------------|
| India | 550 | 10 | 10 | 6 |

| Keynote Speakers | Plenary Keynote | Session Speakers | Participation Mode |
|------------------|-----------------|------------------|-----------------------|
| 6 | 1 | 9 | Virtual Presentations |

| | |
|-------------------------------|---------------------------|
| Session Chairs - Day 1 | Moderators - Day 1 |
| 10 | 7 |
| Session Chairs - Day 2 | Moderators - Day 2 |
| 17 | 7 |

❖ **Conference Tracks & Sessions**

| | |
|----------|---|
| 1 | Breaking Barriers: Science for Inclusive Societies |
| 2 | Healthy Cities, Healthy Lives: Tech-enabled Wellbeing |
| 3 | Powering Progress: Sustainable Industries & Innovation |
| 4 | Guardians of the Earth: Science for Climate & Biodiversity |
| 5 | Science Diplomacy: Building Trust & Partnerships |
| 6 | Beyond Publications: Science in the Digital Era |

❖ **Keynote Speakers**



Dr. Shilpa Bade-Gite
Director
Dr. D.Y. Patil School of
Science & Technology
Pune, India



Prof. Dr. Amutha
SRM Institute of Science
and Technology
India



**Assoc. Prof. Dr. Azurah A.
Samah**
University of Technology
Malaysia



Assoc. Prof. Dr. K. Anitha
SRM Institute of Science
and Technology, Chennai
India



Prof. Dr. PL. Chithra
Professor & Head
Department of Computer Science,
University of Madras
India



Prof. Dr. Ujwala Gawande
Dean of R&D and Professor
Department of Information
Technology
Yeshwantrao Chavan College of
Engineering
India



Assoc. Prof. Dr. Nabeel Zahran
Hamoud Al-Rawahi
Dean, College of Engineering
Sultan Qaboos University
Oman

❖ Session Speakers



Prof. Dr. Yahia Kourd
University of Souk Ahras,
Algeria.



**Prof. Dr. Mohammed
Belloufi**
University of Souk Ahras,
Algeria.



Dr. Nallammai Singaram
Taylor's University,
Malaysia.



**Assoc. Prof. Dr.
Akilandeswari P**
SRM Institute of Science
and Technology
India.



Prof. Dr. Ir. Mohammed Alias Yusof
Universiti Pertahanan Nasional
Malaysia
Malaysia.



Prof. Dr. Sashikala Mishra
SIT – Symbiosis Institute of
Technology
India.



**Assoc. Prof. Ts. Dr. Nor Erne
Nazira Bazin**
Faculty of Computing
Universiti Teknologi Malaysia
Malaysia

❖ Plenary Keynote Speaker



Chandra Sekhara Reddy Adapa
USA

❖ Session Chairs



Dr.K.Lakshmi Narayanan
Professor,
ECE Department,
Francis Xavier Engineering College,
India



Mr.Patrick Duffy Bayuon,
District Education Officer,
Belaga District Education Office,
Ministry of Education Malaysia,
Belaga, Sarawak, Malaysia



Dr. Anjum Parveen Nazir Qureshi
Assistant Professor
Department of Electronics &
Communication
Rajiv Gandhi College of Engineering,
Research and Technology
India



Dr.V. R. Prasath Kumar
Associate Professor
Civil Engineering
SRM Institute of Science and Technology
India



Dr. M. Saravanan
Professor & Head
Department of ECE
Sri Venkatesa Perumal College of
Engineering and Technology, Puttur, AP.



Dr. Pooja Bhatt
Associate Professor,
Department of Artificial Intelligence
And Data science ,
Parul University



Dr. Gino Sumalinog
CHED SIKAP Scholarship Administrator
Cebu Normal University
Philippines



Dr. M. Gethsiyal Augasta
Assistant Professor (SG) & IQAC
Coordinator Research
Department of Computer Science
Kamaraj College
India.



Mr. Deenadayalan
Associate Professor,
AVIT-Chennai



Dr. Jebarani Evangeline S
Professor & Cluster Head
Electrical Engineering
SNS College of Technology
India



Dr. R. Umamaheswari
Professor
Department of Electrical and Electronics
Engineering
Velammal Engineering College
Chennai



Dr. Kabirdoss Devi
Associate Professor,
School of Management Studies, Vels
Institute of Science Technology and
Advanced Studies (VISTAS),
Chennai, Tamil Nadu,
India



Ms Reshma
Assistant Professor
Computer Science & Engineering
Chandigarh University
India



Prof Abhijit G Kalbande
Department of Information Technology
Prof Ram Meghe College of Engineering and
management Badnera Amravati
India



Dr. Kishori Shekhar
Associate Professor,
Madhuben & Bhanubhai Patel Institute
of Technology
The Charutar Vidya Mandal (CVM)
University, India



Mrs.RAJALAKSHMI.K
Assistant Professor
Department of Computer Science,
Kamaraj College of Engineering and
Technology (Autonomous),
India.



Ms.N.GAJALAKSHM
Assistant Professor
Department of Artificial Intelligence & Data
Science,
Kamaraj College of Engineering and Technology
(Autonomous),
India



Dr. Meena Chavan
Bharati Vidyapeeth (Deemed to be
University)
College of Engineering,
Pune.



Dr. Amol R. Murugai
Professor and Hod
Department of MBA SNJB's L.S.K.B
Jain College of Engineering
India



Dr. Dheeraj Kumar Singh
Assistant Professor
Department of Artificial Intelligence & Data
Science,
Kamaraj College of Engineering and Technology
(Autonomous),
India



Dr Nagendra S
Associate Professor
MANIPAL LAW SCHOOL
Manipal Academy of Higher Education
India





Mr. ELISEO D FRANCISCO JR
Faculty, College of Computer Studies
Our Lady of Fatima University Rizal,
Philippines



Prof. Jackson
Assistant Professor
Department Computer Science
Bannari Amman Institute of Technology
India

❖ Moderators



Ms. K. Nikhitha
Student
MBA
VISTAS



Ms. Thanisha.S
Student
MBA
VISTAS



Ms. Tamarasi M
Student
MBA
VISTAS



Ms. Nandini Jha
Student
Amity University,
Bangalore



Mr. Santhosh P
Student
MBA
VISTAS



Mr. Mohammed Shafeeq H
Student
MBA
VISTAS

❖ Photo Gallery – Event Highlights

Abstract

- This project focuses on the automated detection of Otitis Media using otoscopic images, addressing challenges in manual diagnosis due to visual similarity between ear conditions.
- A Vision Transformer (ViT)-based model (DeiT-Tiny) is used to classify images by capturing both global and local features through self-attention mechanisms.
- The system includes data preprocessing, augmentation, and model fine-tuning using AdamW optimizer to improve performance and generalization.
- The model is evaluated using accuracy, precision, recall, and F1-score, achieving high classification accuracy of around 97-99%.

5th International conference on Advances in Science, Engineering & Technology

Driver Fatigue: A Critical Road Safety Issue

Key Consequences
Fatigue reduces attention and reaction time, leading to dangerous microsleep events during driving.

Risk Factors
Long driving hours combined with monotonous roads significantly increase fatigue risk and accident probability.

Core Problem
Driver fatigue represents a major global safety issue causing 20-30% of road accidents worldwide.

Urgency & Impact
Untreated drowsiness creates severe real-world consequences, demanding immediate detection solutions.

Presentation Outline

- Introduction, Problem Definition & Knowledge Gap
- Objectives
- Methodology to Address the Problem
- Proposed Solutions: CAD Models (Condition 1 & Condition 2)
- Structural Modelling & Analytical Verification
- Finite Element Analysis (FEA)
- Results
- Comparison of Configurations
- Discussion & Conclusion

3/23/2026 Structural Evaluation of Ceiling-Mounted Flame Extraction Fans 2

❖ Impact & Key Outcomes of the Conference

Impact of the Conference

The ICASET 2026 conference has made a significant impact by creating a global platform that integrates science, engineering, and technology to address real-world challenges. It successfully brought together academicians, researchers, industry professionals, and innovators to foster interdisciplinary collaboration and sustainable innovation.

The conference emphasized knowledge dissemination, technological advancement, and sustainable development, aligning research contributions with global priorities such as environmental sustainability, smart technologies, and societal well-being.

By promoting cutting-edge research in areas like AI, IoT, renewable energy, and advanced materials, ICASET 2026 contributed to accelerating innovation and bridging the gap between theoretical research and practical implementation.

Key Outcomes of the Conference

1. Enhanced Knowledge Exchange

- Facilitated the sharing of innovative research findings, methodologies, and best practices across multiple disciplines.
- Enabled participants to gain insights into emerging technologies and global research trends.

2. 🤝 Strengthened Global Collaboration

- Established strong networks among international researchers, academicians, and industry experts.
- Encouraged interdisciplinary partnerships for future research and innovation projects.

3. 🚀 Promotion of Innovation & Research Excellence

- Showcased high-quality research papers and technological advancements.
- Encouraged innovative solutions addressing global challenges in sustainability and engineering.

4. 🌱 Contribution to Sustainable Development Goals (SDGs)

- Supported research aligned with key global goals such as clean energy, quality education, smart infrastructure, and environmental sustainability.
- Promoted eco-friendly technologies and sustainable engineering practices.

5. 🧠 Skill Development & Professional Growth

- Provided participants with opportunities to enhance technical knowledge, presentation skills, and research capabilities.
- Offered CPD credit hours, contributing to professional development and career advancement.

6. 📄 Publication & Global Recognition

- Enabled selected research papers to be published in reputed indexed journals and conference proceedings.
- Increased global visibility and academic recognition for authors.

7. 🔗 Bridging Academia & Industry

- Strengthened the connection between academic research and industrial applications.
- Encouraged practical, scalable solutions for real-world problems.

☀️ Slightly Detailed Feedback Line

- *“The overall feedback from participants was highly positive, with attendees commending the conference for its well-structured sessions, insightful presentations, and its role in fostering collaboration and innovation across science, engineering, and technology domains.”*
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Conclusion & Future Outlook (ICASET 2027 Preview)

The **5th International Conference on Advances in Science, Engineering & Technology (ICASET 2026)** concluded successfully, serving as a dynamic platform for intellectual exchange, innovation, and global collaboration. The conference effectively addressed contemporary challenges and highlighted the critical role of science and technology in shaping a sustainable future.

With impactful keynote sessions, technical presentations, and interdisciplinary discussions, ICASET 2026 reinforced the importance of integrating research, industry practices, and policy frameworks to drive meaningful progress. The active participation and positive engagement from global delegates demonstrated the growing relevance and influence of this conference series.

Looking ahead, **ICASET 2027** aims to build upon this success by expanding its global reach and deepening its focus on emerging technologies such as artificial intelligence, smart systems, green energy, and sustainable infrastructure. The upcoming edition will continue to foster innovation, encourage high-quality research contributions, and strengthen collaborations between academia and industry.

ICASET 2027 is envisioned to introduce more **interactive sessions, industry-driven panels, and collaborative research opportunities**, providing participants with enhanced learning experiences and greater exposure to real-world applications. The conference will further align its themes with global sustainability goals, ensuring a continued commitment to addressing pressing societal and environmental challenges.

In conclusion, ICASET remains a **premier platform for advancing knowledge, inspiring innovation, and promoting sustainable development**, and the next edition promises to deliver even greater impact and value to the global research community.