

Day 0 : 16/07/2026 – Forenoon Session : Report of Pre conference Workshop of IEEE International Conference on Electronic Systems and Artificial Intelligence Applications (ICESAIA 2026)

Overview

The **Preconference workshop of IEEE International Conference on Electronic Systems and Artificial Intelligence Applications (ICESAIA 2026)** was held from **16–18 July 2026** in Hyderabad, bringing together researchers, academicians, scientists, industry professionals, and practitioners from across the world. The conference served as a platform for presenting research, exchanging ideas, and discussing recent advancements in **electronic systems, artificial intelligence, communication technologies, embedded systems, signal processing, and data-centric engineering**. The programme featured keynote lectures, invited talks, technical paper presentations, workshops, and interactive sessions, promoting interdisciplinary collaboration and research excellence. ICESAIA 2026 was jointly organized by the **IEEE Hyderabad Section, Avionics Society of India (ASI), Methodist College of Engineering & Technology (Autonomous), Hyderabad, and Stanley College of Engineering & Technology for Women (Autonomous), Hyderabad**, reflecting their shared commitment to advancing innovation, academia–industry collaboration, and engineering research.

About the Conference

A distinctive feature of **ICESAIA 2026** was its collaboration with the **Avionics Society of India (ASI)**, a professional society established by DRDO scientists to promote advancements in avionics and allied technologies. The conference provided a platform for knowledge exchange and collaboration among scientists, academicians, researchers, and industry professionals. Technical co-sponsorship from the **IEEE Hyderabad Section** further enhanced the conference's academic and professional value. The active collaboration reinforced the conference's commitment to advancing research in electronic systems and artificial intelligence.

Inaugural Session

The inaugural session of ICESAIA 2026 marked the formal commencement of the conference in the presence of distinguished dignitaries from academia, DRDO, IEEE, and industry. **Dr. Madhumita Chakravarti, Former Director, CMSDS, DRDO**, emphasized indigenous defence technologies and semiconductor innovations. **Dr. B. L. Raju, Principal, Stanley College of Engineering & Technology for Women**, delivered the welcome address, while **Dr. G. Prabhu, Principal, Methodist College of Engineering & Technology**, outlined the conference objectives and the importance of collaborative research. **Dr. Satyaprasad, Dean, Stanley College of Engineering & Technology for Women**, highlighted India's initiatives in semiconductors and

next-generation communication technologies, reinforcing the conference's focus on research, innovation, and technological advancement.

Technical Session of Pre-Conference Workshop

The pre-conference workshop comprised three technical sessions on emerging technologies, delivered by experts from DRDO, Qualcomm, and industry.

AI, Hardware Systems and Intelligent Edge: Chaired by **Dr. J. V. Satyanarayana**, Director, AI & Visualization Directorate, RCI, DRDO, the session featured **Sri Suman Sinha**, Qualcomm, on Agentic AI, Intelligent Edge, and AIoT, and **Sri Anil Allada**, Qualcomm, on next-generation hardware systems.

5G and 6G Communication Technologies: Chaired by **Prof. Mastanamma**, HoD, EEE, MCET, the session featured **Dr. Santanu Chatterjee**, RCI, DRDO, and **Dr. Poulami Chaudhuri**, who addressed advancements, applications, and career opportunities in next-generation communication technologies.

Drones and Anti-Drone Technologies: Chaired by **Sri Venkatamani**, Scientist 'G', RCI, DRDO, the session included a presentation by **Dr. Adarsh Kodhanda**, Founder & CEO, Aeroforge Labs Pvt. Ltd., on **Swarm of Drones** and recent developments in drone technologies for defence and autonomous systems.

Day 0 : 4.30 PM to 9.30 PM Report on Inaugural Ceremony of IEEE International Conference on Electronic Systems and Artificial Intelligence Applications (ICESAIA 2026)

The inaugural session of ICESAIA 2026 commenced with two distinguished lectures on *Emerging Technology Needs* and *AI Cutting-Edge Technology*, followed by the formal inauguration in the presence of eminent dignitaries from DRDO, IEEE, NITI Aayog, Osmania University, DIAT, and academia. The programme included the ceremonial lighting of the lamp, welcome address, conference overview, addresses by the Chief Guest and Guests of Honour, release of the conference souvenir, felicitation of guests, vote of thanks, and concluded with the National Anthem and Gala Dinner.