

4th International Conference on Data, Electronics and Computing

Organized By

Indian Institute of Information Technology, Design and Manufacturing, Jabalpur |
Baderia Global Institute of Engineering and Management Jabalpur

&

COMSYS Educational Trust, Kolkata, India

The ICDEC-2025 conference covers cutting-edge research in Electronics, Computing, and Systems. This special session aligns with these themes by focusing on AI and IoT applications for accessibility - bridging computing with healthcare, education, and assistive technology. It will attract researchers from computing, electronics, and biomedical fields, thereby creating a strong interdisciplinary dialogue.

Call for papers for

Special Session SS2: AI and IoT-based Systems for Accessibility.

This special session focuses on AI and IoT technologies for enhancing accessibility of systems for differently abled individuals. AI enables intelligent processing such as computer vision, speech-to-text, and adaptive interfaces, while IoT ensures real-time data collection and smart device management. The session encourages research that improves quality of life, supports caregivers, and increases social awareness and empathy towards differently abled persons.

Topics:

- ✓ Smart assistive systems for vision, hearing, mobility, communication, learning, and cognitive impairments
- ✓ AI and IoT-based tools for assessment of learning and cognitive disorders
- ✓ Intelligent support systems for accessibility and rehabilitation
- ✓ Adaptive human-computer interaction for differently abled users
- ✓ IoT-enabled healthcare monitoring and alert systems.

Special session organizers:



**Dr. Oishila
Bandyopadhyay**

Assistant Professor (CSE),
IIIT Kalyani



Dr. Sanjoy Pratihara

Assistant Professor (CSE),
IIIT Kalyani

Submission procedure: Submissions for the conference must be made online through Microsoft CMT. Papers should be approximately 10 pages long. For detailed guidelines, please check <https://www.icdec.org/2025/call-for-paper>

Submission Deadline: ~~October 15, 2025~~ October 31, 2025

Acceptance Notification: November 07, 2025

Registration Due: November 10, 2025

Camera-ready Submission: November 15, 2025

Publication: Springer LNNS

Mode of session:

Paper Presentations, Interactive Workshop and Poster Session. **Hybrid Mode** Presentation will be available.

Expected Audience: UG/PG students, PhD scholars, faculty, and industry professionals.