INDEA-2026
International Conference on
Next-Generation Data Engineering and Analytics

ORGANISED BY: University of Salford, Manchester, UK
On
21st- 22nd August 2026.

************* CALL FOR PAPERS ***************

SPECIAL SESSION ON
Ethical, and Fair Analytics for IoT-Driven Data Engineering Systems

SESSION ORGANIZERS:
1. **Dr. Divya Agarwal, Assistant Professor, Vivekananda Institute of Professional Studies-Technical campus, Delhi, India, +91-9968362010 (er.divya7@gmail.com)**
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EDITORIAL BOARD: (Optional)
NA

SESSION DESCRIPTION:
The rapid growth of Internet of Things (IoT) ecosystems has resulted in massive volumes of heterogeneous, real-time data, driving advanced data engineering pipelines and intelligent analytics systems. While these systems enable automation, optimization, and predictive decision-making across domains such as smart cities, healthcare, transportation, and industry, they also raise critical concerns related to ethics, fairness, trust, privacy, and accountability.

This special session focuses on responsible and trustworthy data engineering and analytics for IoT-enabled environments. It aims to bring together researchers and practitioners working on ethical data acquisition, bias-aware analytics, privacy-preserving IoT data processing, transparent decision-making, and governance mechanisms for large-scale IoT data platforms. Unlike conventional technical sessions, this session emphasizes human-centric, secure, and fair analytics, ensuring that IoT-driven intelligence systems are reliable, explainable, and socially responsible.

The session will foster interdisciplinary discussions and showcase novel methodologies, frameworks, and real-world case studies addressing trust and ethics in next-generation IoT data engineering systems.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- **Ethical challenges in IoT data collection and processing**
- **Fairness-aware analytics for IoT applications**
- **Privacy-preserving IoT data engineering and federated analytics**
- **Trust and transparency in IoT-driven AI systems**
- **Bias detection and mitigation in sensor-based data**
- **Secure and accountable IoT analytics pipelines**
- **Governance and regulatory compliance for IoT data platforms**
- **Case studies from smart cities, healthcare IoT, industrial IoT, and smart grids**

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Ethical, and Fair Analytics for IoT-Driven Data Engineering Systems** *on or before* 30th June 2026. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at https://indea-conf.com . All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **Ethical, and Fair Analytics for IoT-Driven Data Engineering Systems** at the top (above paper title) of the first page of your paper.

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