



INDEA-2026

International Conference on Next-Generation Data Engineering and Analytics

Organized by: University of Salford, Manchester, UK

Dates: 21st–22nd August 2026

SPECIAL SESSION:

Designing Trustworthy AI : A Framework for Explainability in Automated Decision Systems

Session Convenor:

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SESSION DESCRIPTION:

This session addresses the growing and urgent need for “**Trustworthy and Explainable Artificial Intelligence (AI)**”, in critical sectors, including healthcare, finance, governance, and smart Systems. As AI- driven systems increasingly influence decisions that affect human lives, or organizational processes, and societal outcomes, ensuring their transparency, accountability, and interpretability has become paramount. Modern AI models, particularly complex machine Learning and Deep Learning system, often operate as “black boxes”, providing highly accurate predictions without clear explanation of how decisions are made. This opacity can reduce user trust, hinder adoption, and raise ethical and regulatory concerns, especially in sensitive application such as patient diagnosis, financial or public policy enforcement.

RECOMMENDED TOPICS:

The session invites contributions on topics including, but not limited to:

- Explainable Artificial Intelligence (XAI) techniques
 - Model interpretability and transparency
 - Trustworthy and ethical AI systems
 - Decision support systems using machine learning
 - Model-agnostic methods (e.g., LIME, SHAP)
 - Trade-offs between accuracy and interpretability
 - AI governance and regulatory compliance
 - Human-AI interaction and trust building
 - Applications in healthcare, finance, and smart cities
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OBJECTIVE:

Contributing to this session may include innovative techniques for **Explainable AI (XAI)**, model-agnostic interpretability approaches such as LIME and SHAP, and frameworks that balance the trade-offs between predictive performance and comprehensibility. Researchers may also explore best practices in **Human- AI Interaction**, ensuring that automated systems communicate reasoning effectively and foster informed decision-making. Studies addressing mitigation, fairness, accountability, and regulatory compliance are particularly encouraged.

SUBMISSION PROCEDURE:

- Submit original, unpublished papers by **28th June 2026**.
 - Follow manuscript preparation and submission instructions at: <https://indea-conf.com>.
 - Papers will undergo double-blind peer review.
 - **Important:** For this special session, mention the **Session Name** at the top of the first page above the paper title.
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