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
Explainable Computer Vision and Language Models for the Next-Generation of Telehealth and Clinical Analytics

SESSION ORGANIZERS:
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EDITORIAL BOARD: (Optional)
[Name, University or Organization, Country, e-mail]

SESSION DESCRIPTION:
Healthcare is witnessing a transformation where vision, language, and reasoning converge to assist clinical decision-making beyond conventional image recognition. From radiology to remote patient monitoring, computer vision systems now interpret complex medical imagery, while large language models (LLMs) help contextualize these visual cues within a patient's narrative or clinical history. Despite these advances, a persistent gap remains: the absence of transparency and interpretability in multimodal medical AI. Physicians need to understand why an algorithm recommends a diagnosis, not merely what it predicts.

This session therefore invites novel frameworks, algorithms, and practical systems that merge explainable visual intelligence with language-driven reasoning to build trustworthy, accountable, and deployable AI for healthcare and telemedicine. We aim to unite researchers and practitioners across computer vision, NLP, and medical informatics who share a common goal: crafting human-centric AI systems that enhance—not replace—clinical expertise.

RECOMMENDED TOPICS:

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

- **Vision-Language Foundation Models for medical imaging and clinical reports**
- **LLM-assisted medical reasoning, summarization, and decision explanation**
- **Interpretable radiology, pathology, and dermatology analysis using multimodal transformers**
- **Human-in-the-loop frameworks for explainable clinical decision support**
- **Federated and privacy-preserving vision-language learning in telemedicine**
- **Data annotation minimization and self-supervised learning for healthcare imagery**
- **Visualization of attention and saliency for clinical interpretability**
- **Ethical, legal, and trust frameworks for AI-based patient interaction**
- **Generative models for synthetic yet explainable medical data augmentation**
- **Temporal and cross-modal reasoning for telehealth diagnostics**

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Explainable Computer Vision and Language Models for the Next-Generation of Telehealth and Clinical Analytics** *on or before* [**30th December 2025**]. 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 Explainable Computer Vision and Language Models for the Next-Generation of Telehealth and Clinical Analytics at the top (above paper title) of the first page of your paper.

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