

2026 IEEE 9th International Conference on PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE

SPECIAL SESSION 03

Multimodal Medical Data Fusion and Precision Diagnosis-Treatment Practice with Large Models

With the advancement of medical digitization and AI technology, the medical field has entered an era driven by multimodal data and large models; medical data, featuring diversity, high dimensionality and large scale, is the cornerstone of precision medicine, while the fragmentation of single-modal data limits clinical decision-making accuracy, making multimodal data fusion a cutting-edge solution to this bottleneck. As large models have achieved leaps from technical exploration to clinical application, their integration with multimodal data fusion has become a revolutionary trend in biomedical research, addressing pain points like uneven medical resource distribution. This special session focuses on the intersection of these technologies in precision diagnosis and treatment, aiming to build an academic exchange platform for global experts, gather the latest research achievements, discuss core challenges such as data alignment, model customization and privacy protection, and promote the integration of pattern recognition, AI and clinical medicine to accelerate the transformation of scientific research achievements and boost the development of precision medicine worldwide.

Related Topics

Topics of interest include, but are not limited to:

- Multimodal Medical Data Fusion Theory and Algorithms
- Medical Large Model Optimization and Customization
- Large Model-Driven Precision Diagnosis and Treatment Applications
- Engineering Practice and System Deployment
- Evaluation and Validation of Clinical Applications
- Emerging Technologies and Cross-Disciplinary Integration
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Publication



IEEE

Accepted papers will be published in PRAI 2026 Conference Proceedings, and submitted for inclusion into IEEE Xplore and indexed by EI Compindex & Scopus.

Important Date

Submission Deadline	May 05, 2026
Notification Date	June 01, 2026
Registration Deadline	June 15, 2026

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PRAI

August 14-16, 2026

Shanghai, China

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Submission Way

Submit Online:

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(Please choose Special Session 3)

Paper Templates:

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