

**CALL FOR PAPERS**  
**SPECIAL SESSION on**  
**Multi-modal Learning**  
**for CDMA'25**  
**Feb. 16-17, 2025, Riyadh, Saudi Arabia**

**Session/Workshop Chair:**

Role	Name	Affiliation	Email
Session Chair	Prof. Honghao Gao	Shanghai University, China	gaohonghao@shu.edu.cn
Social Media Chair	Dr. Zheng Liu	Minzu University of China, China	liuzheng@muc.edu.cn
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**Session description:**

With the advancement of artificial intelligence (AI), multi-modal learning has emerged as a transformative force, driving innovation across a wide array of applications. This approach addresses the limitations of traditional systems that often struggle with the integration and interpretation of diverse data types. Multi-modal learning leverages the complementary information present in different modalities—such as text, images, audio, and sensor data—to achieve a more comprehensive and nuanced understanding of complex scenarios.

The incorporation of pioneering deep learning techniques, including pre-training, multimodal fusion, and federated learning, enhances the capacity of models to process and integrate information from multiple sources. These advanced methods enable systems to perceive, understand, and interact with the world more effectively, leading to improved performance in tasks such as recognition, prediction, and decision-making. Pre-training on large, diverse datasets allows for the development of robust feature representations, while multimodal fusion techniques facilitate the seamless combination of different data types. Federated learning, on the other hand, supports the training of models across decentralized data sources, preserving privacy and security.

This session is dedicated to serving as a premier platform for the timely and comprehensive presentation of cutting-edge advancements in the field of multi-modal learning. Our objective is to address these themes through the lens of modeling and learning, with an emphasis on developing innovative methods and models that not only push the boundaries of technology but also provide clear and interpretable outputs. We aim to publish high-quality, original, and unpublished research contributions that reflect the multifaceted aspects of multi-modal learning, including theoretical foundations, practical implementations, and real-world applications. Contributions may include.

**Topics of interest for this Special session include but are not limited to the following:**

- ✓ Multi-modal Conversational System
- ✓ Multimodal Data Security
- ✓ Multimodal Question Answering Technology
- ✓ Information Processing in Low-resource or Cross-Lingual Setting
- ✓ Multimodal Generation Technology
- ✓ Causal Knowledge Discovery
- ✓ Sentimental Analysis in Multimodal Expert System
- ✓ Multi-modal Technology Applications
- ✓ Vision intelligence in Remote Sensing
- ✓ Data Modeling and Evaluation Methods

**Submission**

Papers must be submitted electronically for peer review by: **December 31, 2024**  
<https://easychair.org/xxxx>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).