

# Call For Papers

**Special Session:** Multi-modal Machine Learning and Visual-Language Understanding

**Conference:** The 2023 International Conference on Cyber-physical Social Intelligence (ICCSI)

**Date:** October 20-23, 2023

**Meeting mode:** In-person

**Location:** Xi'an, China

**Web site:** <https://agist.org/iccsi2023>

Multi-modal machine learning and visual-language understanding is one of the hot issues of artificial intelligence, which has received widespread attention from both academia and industry. It covers a wide range of applications, such as multi-modal data analysis, classification, clustering, representation, alignment, fusion, similarity measurement and retrieval. Beside the traditional cross-modal tasks, the recent trend of study attempts to investigate visual-language semantic understanding and reasoning, including realizing image captioning, cross-modal knowledge reasoning, and scenario understanding, or developing multi-modal human-machine interaction such as visual question answering and visual dialog system, which place higher demands on intelligence technology. In this session, we would like to collect the recent advances in the ongoing studies concerning *Multi-modal Machine Learning and Visual-Language Understanding*. We also welcome high-quality papers in all theoretical and practical aspects of the multi-modal machine learning and visual-language understanding.

***Interested topics include (but not limited to):***

- Multi-modal data correlation analysis, classification, and clustering
- Multi-modal machine learning and its application
- Cross-modal representation learning and its application
- Cross-modal hashing learning and retrieval
- Cross-modal semantic embedding, alignment, and similarity learning
- Multi-modal knowledge graph and its application
- Cross-modal semantic reasoning and fusion
- Knowledge-based visual-language understanding
- Cross-modal semantic representation for social recommendation
- Pre-trained Models for visual-language task
- Cross-modal causal reasoning for visual-language task

## **Important Dates:**

March 31, 2023,	Letter of intent for paper contribution
May 15, 2023,	Full paper submission
July 1, 2023,	Acceptance/Rejection notification
August 31, 2023,	Final camera-ready papers due

## **Special Session Co-chairs:**

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*All inquiries about the session, including the letter of intent, should be sent to any of the co-chairs above*