

The 1st International Workshop on

# High-Dimensional Multimedia Visual Data: Imaging, Processing, Perception, and Reasoning

Kuala Lumpur, Malaysia December 9 – 12, 2025

*High dimensional visual data are reshaping the landscape of multimedia understanding. These modalities extend beyond conventional 2D images and videos, offering richer information across spatial, temporal, angular, spectral, and modality dimensions. This workshop focuses on the challenges and opportunities in the **imaging, processing, perception, and reasoning of high dimensional multimedia data**. It brings together researchers from computational imaging, multimodal learning, and neural representations to explore efficient methods for sensing, reconstruction, and semantic understanding.*

## Call For Paper

We invite submissions of original research contributions related to, but not limited to, the following areas:

1. High-Dimensional Visual Sensing and Computational Imaging
2. Compression and Neural Representations for Complex Modalities
3. Semantic Understanding and Cross-Modal Perception
4. Vision-Language Reasoning for Multi-modal Data
5. Datasets and Benchmarks for High-Dimensional Media
6. Trustworthy and Efficient Multi-modal Intelligence

We will select **4 oral papers** to be presented at our workshop. One of these will be awarded the **Best Paper Award**, which will be announced during the event.

Workshop Site: <https://mmasia2025.org/imaging-processing-perception>

Submission Site: <https://cmt3.research.microsoft.com/MMASIA2025/Track/16/Submission/Create>

## Important Dates

Paper Submission Deadline: ~~October 4, 2025, 23:59 (UTC-0)~~ **October 7, 2025, 23:59 (UTC-0)**

Camera-ready Submission: October 24, 2025, 23:59 (UTC-0)

## Organizers

Zeyu Xiao, Research Fellow, National University of Singapore

Zhuoyuan Li, Ph.D., University of Science and Technology of China

Xiang Chen, Ph.D., Nanjing University of Science and Technology

Cong Zhang, Postdoctoral Fellow, The Chinese University of Hong Kong

Hadi Amirpour, Assistant Professor, University of Klagenfurt

Yakun Ju, Lecturer (Assistant Professor), University of Leicester

Zhiwei Xiong, Professor, University of Science and Technology of China

Kin-Man Lam, Professor, The Hong Kong Polytechnic University