



SPECIAL SESSION 5

Intelligent Image/Video Processing: From Foundation Models to Industrial Innovations

Recent breakthroughs in foundation models—including diffusion models, Vision Transformers (ViT), and Multimodal Large Language Models (MLLMs)—are driving a paradigm shift in AI-driven image and video processing. This special session aims to bring together researchers, engineers, and practitioners to explore cutting-edge theories and emerging applications in this rapidly evolving field. We invite contributions that address both fundamental technical challenges—such as low-level vision (super-resolution, image restoration) and high-level semantic understanding (object detection, action recognition)—and innovative cross-disciplinary applications in areas including smart agriculture, medical imaging, edge computing, autonomous systems, and ecological conservation. The session also encourages discussions on model efficiency, interpretability, robustness, and ethical considerations for real-world deployment.

Topics of interest include, but are not limited to:

- AI-Powered Real-Time Low-Latency Image/Video Processing
- Intelligent Visual Monitoring for Agriculture, Forestry, and Ecosystem Conservation
- AI-Driven Medical Imaging: Diagnosis, Enhancement, Restoration, and Synthetic Data
- Multimodal Vision-Language Models for Image/Video Understanding and Retrieval
- Generative AI for Visual Content Creation: Diffusion Models, GANs, and Beyond
- Efficient AI and Edge Computing for Vision Systems
- AI-Driven Visual Processing for Autonomous Systems and Intelligent Transportation
- Safety, Security, and Explainability in AI-Driven Image/Video Processing
- Intelligent Video Surveillance, Anomaly Detection, and Behavior Analysis
- 3D Vision, Computational Imaging, and Scene Reconstruction

For more details, please visit: <https://icgip.org/ss2.html>

IMPORTANT DATE

Submission Deadline: September 5, 2026

Notification Deadline: September 30, 2026

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