

## **General Chairs**

Jeng-Neng Huang (UW)
Jun-Wei Hsieh (NYCU)
Ming-Ching Chang (UAlbany)

## **Program Chairs**

Chih-Chung Hsu (NCKU) Chih-Fan Hsu (Inventec)

Yi-Zeng Hsieh (NTUST)

Yun-Hsin Chuang (NCKU)

#### **Keynote Speakers**

Ming-Hsuan Yang (UC Merced)
Siwei Lyu (UAlbany)
Yu-Chiang Frank Wang (NTU)

**Workshop Chairs** 

Guo-Shiang Lin (NCUT)

**Chuan-Wang Chang (NCUT)** 

# **Tutorial Chairs**

Chaker Larabi (UNIPOI) Shao-Yuan Lo (HRI)

## **Challenge & Demo Chairs**

Kwangju Kim (ETRI)

Tse-Yu Pan (NTUST)

#### **Publication Chair**

**Zhedong Zheng (UM)** 

Munkhjargal Gochoo (UAEU)

#### **Industrial Chairs**

Peter Tu (GE Aerospace)

John Li (Inventec)

Chung-I Huang (NCHC)

#### **Financial Chair**

Chi-Chia Sun (NTPU)

#### **Registration Chairs**

Chun-Ming Tsai (UT)

#### **Local Chairs**

Chia-Chi Tsai (NCKU)

I-Hsien Liu (NCKU)

# **Publicity Chairs**

Cosimo Distante (CNR)

Janusz L. Konrad (BU)

Liang Zheng (ANU)

Min-Chun Hu (NTHU)

#### **International Liaison**

Kahlil Muchtar (USK)

Jong Taek Lee (KNU)

Lucio Marcenaro (UniGe)

Nicola Conci (UniTrento)

Sachi N. Moahnty (VIT-AP)

Isack Farady (YZU)

#### **Web Chairs**

Chih-Yu Jiang (NCKU)
Yi-Shiuan Chou (NCKU)



# **Call For Paper**

AVSS 2025 marks the 21st edition of the IEEE International Conference on Advanced Visual and Signal-Based Systems, sponsored by the IEEE Signal Processing Society (SPS). AVSS is a premier international forum in image and video processing and signal-based analytics that brings together experts from academia, industry, and government to advance the frontiers of theories, methods, systems, and applications. In addition, AVSS 2025 also explores the robustness, security, privacy, and fairness issues in applying AI and machine learning algorithms for image and video analytics. AVSS 2025 will feature a main conference and multiple associated workshops, challenge contests, and tutorials. Topics of interest include, but are not limited to:

#### > Image and Video Analytics

• Detection, Segmentation, Recognition, Face, Gesture, Action, Events, Synthesis, Biometrics, Tracking, Counting, Multi-view, 3D Analysis, Drone Video, Datasets and Evaluation

#### Model Security, Privacy, Fairness and Robustness

• Privacy-Preserving ML, Adversarial ML, Secure Data Processing, Authentication, Security and Privacy in IoT, Trustworthy AI, Ethical Use of AI Technologies

## > Multi-modal Analytics

 Vision-Language, LLM, Foundation Models, Fusion Approaches, Multi-model Processing, Registration, Calibration, Robust Analysis, Audio and Speech Analysis, Multi-spectrum Analysis, Medical Image Analysis

# > IoT and Signal Analytics

 Cybersecurity Threat Detection, Forensic Analysis of Manipulated or Generated Contents, Edge AI Computation,

#### > Systems and Application

• Smart Cities, Public Safety, Traffic Analysis, Home / Business Security, Critical Infrastructure

# **Submission Instructions**

Prospective authors are invited to submit

- 1. **Full-length**, high-quality papers presenting original research results, which should not exceed **six** pages (including references)
- 2. Short papers and demo papers, which should not exceed four pages (including references)
- 3. Extended Abstracts consisting of one- to two-page submissions (including references)

Submissions must adhere to the IEEE double-column format and are limited to **six** pages, including figures, tables, and references. All accepted full, short, and demo papers presented at AVSS 2025 will be included in the conference proceedings and published in the IEEE Xplore digital library. The papers in the abstract sessions will be presented at the conference but not included in the proceedings. Submissions can be made through the CMT online portal at <a href="https://cmt3.research.microsoft.com/AVSS2025">https://cmt3.research.microsoft.com/AVSS2025</a>. The paper review process will be double-blind to ensure fairness and impartiality.

# **Important Dates**

Paper Deadline: April 15, 2025 AoE

Extended Abstract Deadline: April 22, 2025 Acceptance Notification: May 19, 2025

Camera Ready Deadline: **May 26, 2025** 

**Please visit the Conference Website** 

https://avss2025.org

