

AVSS 2025 Program Details (GMT+08)

August 11 (Monday)

August 11	Session: Opening & Keynote 1 Room: Advantech ICH Session Chair: Prof. Jun-Wei Hsieh (National Yang Ming Chiao Tung University)
8:30 ~ 9:30	Keynote Speaker: Prof. Ming-Hsuan Yang (The University of California, Merced) Title: Recent Results on Multimodal Foundation Models

August 11	Session: Keynote 2 Room: Advantech ICH Session Chair: Prof. Ming-Ching Chang (University at Albany - SUNY)
13:00 ~ 14:00	Keynote Speaker: Prof. Siwei Lyu (University at Buffalo, SUNY) Title: Gauging Deepfake Detection for Real World Uses

August 11	Session: Tutorial 1- Multimedia Deepfake Detection (Remote Session) Room: Advantech ICH
9:45 ~ 11:45	Speaker: You (Neil) Zhang (Dolby) Menglu Li (Toronto Metropolitan University) Luchuan Song (University of Rochester)

August 11	Session: Reception Room: Room 214 and 216
19:00 ~ 21:00	

August 11	Main 1: Detection, Segmentation, and Recognition Room: Room 215 Session Chair: Prof. Siwei Lyu (University at Buffalo, SUNY)
9:45 ~ 10:00	#16 Incremental Semantic Segmentation using Multiple Model Consensus Chun-Wei Hsu (National Central University); Chih-Chang Yu* (Chung Yuan Christian University); Ting-Wei Lu (Chung Yuan Christian University); Hsu-Yung Cheng (National Central University); Sophie Yu (Tainan University of Technology)
10:00 ~ 10:15	#209 Sliced Vision Transformers for Fine-Grained Anomaly Detection and Localization (Remote) Nasar Iqbal* (Università degli Studi di Udine); Mattia Zanier (Eye-Tech); Marco Vernier (Eye-Tech); Christian Micheloni (Università degli Studi di Udine); Niki Martinel (Università degli Studi di Udine)
10:15 ~ 10:30	#101 Transformer-Based Hybrid Model for Robust Abusive Content Detection in Online Social Networks(OSNs) Asish Kumar Dalai* (VIT-AP University); Yadavalli Uday Shankar (VIT-AP University);

	Somya Ranjan Sahoo (VIT-AP University); Medeswara Rao Kondamudi (VIT-AP University); Phani Krishna Bulasara (VIT-AP University)
10:30 ~ 10:45	#107 A Landscape Survey of Tools and Real-World Cases of AI-Generated Media Jialing Cai (University at Buffalo); Chengzhe Sun (University at Buffalo); Soumyya Kanti Datta (University at Buffalo); Siwei Lyu* (University at Buffalo)
10:45 ~ 11:00	#143 Deep Checkout System Sheng-Hsun Chen (National United University); Yue-Ru Jiang (National United University); Jui-Cheng Yen* (National United University);
11:00 ~ 11:15	#179 Human Pose Recognition in Top-View Fisheye Images Kun-Yao Lin (National Yang Ming Chiao Tung University); Tsaipei Wang* (National Yang Ming Chiao Tung University)
11:15 ~ 11:30 (5:15 ~ 5:30 GMT+02)	#28 From Diffusion to Decision: A Diffusion-ReRanking in Scene Text Detection Jia Ying Yong (National Yang Ming Chiao Tung University); Hong-Han Shuai* (National Yang Ming Chiao Tung University); Hongxia Xie (Jilin University); Yung-Hui Li (Hon Hai Research Institute); Wen-Huang Cheng (National Taiwan University)

August 11	Main 2: Face, Pose, and Gesture Analysis Room: Room 218 Session Chair: Dr. Wei-Chao Chen (Inventec Corp.)
9:45 ~ 10:00	#138 Multi-Label Facial Emotion Classification by Efficient Network from Korean Drama Video Clips Hangyeul Shin (Handong Global University); Seunghyon Kim* (Handong Global University); Junyong Ok (Handong Global University); Xiaopeng Yang (Handong Global University)
10:00 ~ 10:15	#163 Learnable Rotary Position Embeddings for Face Vardhini P* (Pi-Labs); Raghu Sesha Iyengar (Pi-Labs, BITS Pilani, Indian Institute of Technology Hyderabad)
10:15 ~ 10:30	#11 CSS: Clustering-guided SliderSpace for Under-represented Visual Concept Exploration of Diffusion Models Jun-Cheng Chen* (Academia Sinica)
10:30 ~ 10:45	#69 A Data-Centric Approach to Pedestrian Attribute Recognition: Synthetic Augmentation via Prompt-driven Diffusion Models Alejandro Alonso (Universidad Autonoma de Madrid); Sawaiz A. Chaudhry (Universidad Autonoma de Madrid); JUAN C. SANMIGUEL (Universidad Autonoma de Madrid); Álvaro García-Martín (Universidad Autonoma de Madrid); Pablo Ayuso-Albizu* (Universidad Autonoma de Madrid); Pablo Carballeira (Universidad Autonoma de Madrid)
10:45 ~ 11:00	#176 Boosting Deepfake Video Detection Using Non-Local Attention and Sharpness-Aware Minimization Pratibha Singh (Indian Institute of Technology, Roorkee); Vinod Pankajakshan* (IIT Roorkee)
11:00 ~ 11:15	#154 Facial Attribute Editing with Diffusion Models using Data-Efficient SVMs Seangmin Lee* (Kyungpook National University); Jinhyeong Park (Kyungpook National University); Soon Ki Jung (Kyungpook National University)
11:15 ~ 11:30	#86 From Spatial to Temporal: A Transformer-GAN Approach for Fall Prediction Yu-Jung Hsu (NCCU); Yi-Chieh Wu* (NCCU)

August 11	Main 3: Action, Activity, and Event Understanding Room: Room 215 Session Chair: Prof. Yun-Hsin Chuang (National Cheng Kung University)
14:15 ~ 14:30	#185 Are Attention Maps Richer than we Imagined for Action Recognition? Tanay Agrawal* (INRIA); Abid Ali* (INRIA, Sophia Antipolis); Antitza Dantcheva (INRIA); Francois Bremond (INRIA)
14:30 ~ 14:45	#181 T-GAP: Temporal Granularity Aware Projection Network for Action Localization Himanshu Singh* (Indian Institute of Technology, Jammu); Avijit Dey (Indian Association for the Cultivation of Science, Jadavpur); Badri Narayan Subudhi (Indian Institute of Technology, Jammu); Vinit Jakhetiya (Indian Institute of Technology, Jammu); T Veerakumar (National Institute of Technology, Goa)
14:45 ~ 15:00	#67 Guarding Barlow Twins Against Overfitting with Mixed Samples (Remote) Wele Gedara Chaminda Bandara (Apple Inc); Celso M. De Melo (S Army DEVCOM Research Laboratory); Vishal M. Patel* (Johns Hopkins University)
15:00 ~ 15:15	#110 Discriminative Skeleton-Based Action Recognition via Co-Learning with Motion Diffusion Model Sanghyeon Lee* (Kyungpook National University); Ahmed Fakhry (Kyungpook National University); Jinwoo Kim (Kyungpook National University); Jong Taek Lee (Kyungpook National University)
15:15 ~ 15:30	#156 Hierarchical Action Understanding : Fine-to-Coarse Reasoning Framework for Video Interpretation JunBeom Moon (Kyungpook National University); Jiye Won (Kyungpook National University); YeEun Joo* (Kyungpook National University); Sehwon Heo (Kyungpook National University); Soon Ki Jung (Kyungpook National University)
15:30 ~ 15:45	#30 Towards Secure Video Surveillance: A Few-Shot Spatiotemporal Perception Transformer for Unseen Behavioral Anomalies Jamuna S Murthy (Ramaiah Institute of Technology); Dhanashekar Kandaswamy (The Ohio State University); Wen-Cheng Lai* (Ming Chi University of Technology)
15:45 ~ 16:00	

August 11	Main 4: Image and Video Synthesis, Generative AI Room: Room 218 Session Chair: Prof. Chiou-Shann Fuh (National Taiwan University)
14:15 ~ 14:30	#36 ATL-Diff: Audio-Driven Talking Head Generation with Early Landmarks-Guide Noise Diffusion Son Vo Thanh* (Chonnam National University); Quang Vinh Nguyen (Chonnam National University); Seungwon Kim (Chonnam National University); Hyung-Jeong Yang (Chonnam National University); Soonja Yeom (University of Tasmania); Soo-Hyung Kim (Chonnam National University)

14:30 ~ 14:45	#170 WCT-Enhanced Instance Normalization for Unsupervised Domain Adaptation in Object Detection Andualem Welabo Tulu (University of Trento); Nicola Conci (University of Trento)
14:45 ~ 15:00	#17 Enhancing Zero-Shot Pedestrian Attribute Recognition with Synthetic Data Generation: A Comparative Study with Image-To-Image Diffusion Models Pablo Ayuso Albizu* (Universidad Autónoma de Madrid); Juan C. SanMiguel (Universidad Autónoma de Madrid); Pablo Carballeira (Universidad Autónoma de Madrid)
15:00 ~ 15:15	#100 Facemover: Unsupervised face frontalization with embedding segments Jongmin Lee (Chung-Ang University); Jaeyoon Lee* (Chung-Ang University); Hyoungjun Lim (Chung-Ang University); Jongwook Choi (Chung-Ang University); Jongwon Choi (Chung-Ang University)
15:15 ~ 15:30	#136 A Comparative Analysis of Different Versions of Stable Diffusion Ao Lv* (University of Macau); Jerome Yen (University of Macau)
15:30 ~ 15:45	#137 Self-Conditioned Generative Data Augmentation for Image Classification Seong-Yun Jeong* (LIG Nex1); Seon-Jong Kang (LIG Nex1); Sang-Young Park (LIG Nex1); Nam-Hoon Jung (LIG Nex1); Kyu-Tae Cho (LIG Nex1)
15:45 ~ 16:00	#73 Latent Orthogonal Perturbation: A Data Poisoning Approach to Prevent Unauthorized LoRA Fine-Tuning (Video) Hong Bin Tan (National Taiwan University); Ching-Yun Fu (National Taiwan University); Ming-Ching Chang (University at Albany - SUNY); Wei-Chao Chen* (Inventec Corp.)

August 11	Main 5: Tracking, Counting, and Motion Analysis Room: Room 215 Session Chair: Ms. Helen Chang (Inventec Corp.)
16:30 ~ 16:45	#43 Occlusion-Robust Multi-Object Tracking with Adaptive Feature Management and Motion Compensation Jin Hong* (Chung-Ang Univ.); Yoojin Han (Chung-Ang Univ.); Junseok Kwon (Chung-Ang Univ.)
16:45 ~ 17:00	#53 Multi-Frame ISP: Enhancing Vision-Based Tasks with Raw and Infrared Videos Ji Seok Kim* (Sungkyunkwan University); Jong Chul Ahn (Hanwha Systems); Sang Min Kim (Hanwha Systems); Jong Hwan Ko (Sungkyunkwan University)
17:00 ~ 17:15	#47 Tracking-based adaptive temporal resampling for video coding for machines Eunbin An* (Yonsei Univ.); Minsuk Kim (Yonsei Univ.); Kwang-Deok Seo (Yonsei Univ.); Sangwoon Kwak (ETRI); Ayoung Kim (ETRI); Soon-heung Jung (ETRI); Hyon-Gon Choo (ETRI)
17:15 ~ 17:30	#14 Robust Visitor Counting by Duplicate Face Detection Dong-Hwan Lee (ETRI, UST); Jang-Hee Yoo* (ETR, UST)
17:30 ~ 17:45	#38 Blind Eye: Motion and Obstacle Detection Leveraging Wi-Fi Aditya Mitra (VIT-AP University); Anisha Ghosh (VIT-AP University); Sibi Sethuraman (VIT-AP University); Devi Priya V S (Dayananda Sagar University); Rakesh Thoppean Suresh Babu* (FiServe Inc); Anitha S (VIT-AP University)
17:45 ~ 18:00	#42 RepSFNet: A Single Fusion Network with Structural Reparameterization for Crowd Counting

	Mas Nurul Achmadiyah* (National Formosa University); Chi-Chia Sun (National Taipei University); Wen-Kai Kuo (National Formosa University); Jun-Wei Hsieh (National Yang Ming Chiao Tung University)
18:00 ~ 18:15	#46 DualGait: A Model-Based Approach to Gait Recognition using Joint and Edge-to-Vertex Dual Graph Representations Pierre Lefebvre* (De Vinci Higher Education, De Vinci Research Center); Dounia Bougamza (De Vinci Higher Education); Kheireddin Kadri (De Vinci Higher Education); Ahmed Azough (De Vinci Higher Education, De Vinci Research Center); Nicolas Travers (De Vinci Higher Education, De Vinci Research Center)

August 11	Main 6: Multi-view or 3D Analytics & Aerial and Drone Video Analysis Room: Room 218 Session Chair: Dr. Chih-Fan Hsu (Inventec Corp.)
16:30 ~ 16:45	#68 Demystifying IoU score prediction in 3D LIDAR-based object detectors Simon Berthoumieux* (Paris-Saclay University); Emanuel Aldea (Paris-Saclay University)
16:45 ~ 17:00	#29 Finding Optimal Viewpoints for Monocular 3D Human Pose Estimation in Dynamic 3D Gaussian Splatting Space Wan-Gi Bae (Kyungpook National University); Sanghyeon Lee (Kyungpook National University); Jong Taek Lee* (Kyungpook National University)
17:00 ~ 17:15	#114 Detection of Small Targets in UAV Images by Using Improved YOLOv8s Cheng-Yang Zheng (National Changhua University of Education); DAVID SHIUNG* (National Changhua University of Education)
17:15 ~ 17:30	#139 Drone Agents: learning to fly to learn how to see Daniele Della Pietra (University of Trento); Karthik Govindarajan (University of Trento); Fabrizio Granelli (University of Trento); Andrea Rosani (Free University of Bozen-Bolzano); Nicola Garau* (University of Trento)
17:30 ~ 17:45	#109 Utilizing Category-Specific Re-Identification Models in Drone-Based Multi-Class Multi-Object Tracking Daniel Stadler* (Fraunhofer IOSB)
17:45 ~ 18:00	
18:00 ~ 18:15	

August 12 (Tuesday)

August 12	Session: Keynote 3 Room: Advantech ICH Session Chair: Prof. Jenq-Neng Hwang (University of Washington)
8:30 ~ 9:30	Keynote Speaker: Prof. Jia-Bin Huang (University of Maryland) Title: Modeling and Editing Visual Worlds

August 12	Session: Keynote 4 Room: Advantech ICH Session Chair: Prof. Jenq-Neng Hwang (University of Washington)
13:00 ~ 14:00	Keynote Speaker: Prof. Yu-Chiang Frank Wang (National Taiwan University) Title: Efficient Customization and Visual Reasoning in Vision-Language Models

August 12	Session: Panel Discussion - Computer Vision and AI Research in Turbulent Times Room: Lecture Hall, Gofar Building Moderator: Prof. Ming-Ching Chang (University at Albany - SUNY)
16:30 ~ 18:00	Panelists: Dr. Peter Tu (GE Aerospace Research) Dr. Wei-Chao Chen (Inventec Corp.) Prof. Jenq-Neng Hwang (University of Washington)

August 12	Session: Tutorial 2 - Defending against Misinformation in the Wild Room: Advantech ICH
9:45 ~ 11:45	Speaker: Chih-Chung Hsu (National Yang Ming Chiao Tung University) Cheng-Ta Yang (National Cheng Kung University) Ming-Hung Wang (National Chung Cheng University) Cheng-Ta Li (National Cheng Kung University)

August 12	Session: Banquet Room: Shangri-La Hotel in Tainan Moderator: Prof. Ming-Ching Chang (University at Albany - SUNY)
19:00 ~ 21:00	

August 12	Main 7: Model Security, Privacy, Fairness, and Robustness Room: Room 215 Session Chair: Prof. Guo-Shiang Lin (National Chin-Yi University of Technology)
9:45 ~ 10:00	#40 Invisible Backdoor Triggers in Image Editing Model via Deep Watermarking

	Yu-Feng Chen* (Academia Sinica); Tzuhsuan Huang* (Academia Sinica); Pin-Yen Chiu* (Academia Sinica); Jun-Cheng Chen (Academia Sinica)
10:00 ~ 10:15	#59 Enhancing LLM Question Answering with RAG through Dense Vector Search and Re-Ranking Te-Lun Yang* (National Taiwan University); Jyi-Shane Liu (National Chengchi University); Yuen-Hsien Tseng (National Taiwan Normal University); Jyh-Shing Jang (National Taiwan University); Ming-Ching Chang (University at Albany - SUNY); Wei-Chao Chen (Inventec Inc)
10:15 ~ 10:30	#180 Label-Only Model Inversion Attacks with Query-Free Training of Conditional Diffusion-Based Attack Model Hikaru Mori (Tokyo University of Science); Kazuaki Nakamura* (Tokyo University of Science)
10:30 ~ 10:45	#21 Infrared Thermal-Guided Adversarial Patch Defense for Robust Visible Person Detectors Sohee Park* (Soongsil University); Hayeon Jeong (Yonsei University); Daeseon Choi (Soongsil University)
10:45 ~ 11:00	#25 Head Feature-Based Adversarial Attack for Proactive Defense Against Face Swapping Donghyun Kim* (Soongsil University); Sohee Park (Soongsil University); Seungdeok Roh (Soongsil University); Daeseon Choi (Soongsil University)
11:00 ~ 11:15	#72 Exploring the Performance Recovery of Remedial Learning Within the Federated Learning Framework Wen-Hung Liao* (National Chengchi University); Che-Wei Huang (National Chengchi University)
11:15 ~ 11:30	

August 12	Main 8: Image and Video Analytics Room: Room 218 Session Chair: Prof. Chi-Chia Sun (National Taipei University)
9:45 ~ 10:00	#6 A Depth-Aware Robust Multi-Object Tracker for Crowded Scene by Re-Prioritizing Association Order Cheng-Yen Yang (University of Washington); Hsiang-Wei Huang (University of Washington); Kuang-Ming Chen (University of Washington); Kunjun Li (University of Washington); Farron Wallace (NOAA); Chung-I Huang (NCHC); Jenq-Neng Hwang* (University of Washington)
10:00 ~ 10:15	#164 Adversarial Image Detection for Vision Transformers via Attention Map SeongGyu Park* (Soongsil Univ.); Hyunsik Na (Soongsil Univ.); Daeseon Choi (Soongsil Univ.)
10:15 ~ 10:30	#144 ISSR-UNet: Intrinsic Supervision Shuffle Residual UNet for Underwater Image Chia-Cheng Chang (National Yang Ming Chiao Tung University); Jun-Wei Hsieh* (National Yang Ming Chiao Tung University); Chiao-Ching Chou (National Yang Ming Chiao Tung University); Yu-Hong Lee (National Yang Ming Chiao Tung University); Pin-Wei Lin (National Yang Ming Chiao Tung University); Ling-Yun Chu (National Yang Ming Chiao Tung University)

10:30 ~ 10:45	#155 Virtual Negative Sample Generation Based on Unreliable Pseudo-Labels for Semi-Supervised Semantic Segmentation Wei-Cheng Huang (National Chung Cheng University); Hao-Ting Li (National Chung Cheng University); Chia-Hsiang Tsai (National Chung Cheng University); Chen-Kuo Chiang* (National Chung Cheng University)
10:45 ~ 11:00	#219 A Conceptual Approach to Explainable Object and Action Classification Stephanie Stacy (GE Global Research); Alfredo Gabaldon* (GE Aerospace Research); Guy Ben-Yosef (GE Healthcare); Idan Tankel (GE Healthcare); Marc Tomlinson (Language Computer Corporation); Sharon Small (Intelligent Retrieval); Ting Liu (Intelligent Retrieval); Peter Tu* (GE Aerospace Research)
11:00 ~ 11:15	#168 Tilted Object Height Measurement via Angle and Ground Point Estimation in Single View Image Sungmin Kim* (Handong University); Chang Ha Lee (GMDSOFT); Sung Soo Hwang (Handong University)
11:15 ~ 11:30	

August 12	Main 9: Medical Image Analysis Room: Room 215 Session Chair: Prof. Yi-Zeng Hsieh (National Taiwan University of Science and Technology)
14:15 ~ 14:30	#56 Multimodal Clinical Decision Support for Melanoma Diagnosis Using Retrieval-Augmented Generation and Vision-Language Models Jihyun Moon* (Handong Global University); Charmgil Hong (Handong Global University)
14:30 ~ 14:45	#92 A Hybrid Vision Transformer with Intra-Attention Architecture for Enhanced Medical Image Retrieval G Sucharitha (Institute of Aeronautical Engineering College); Jawad Rasheed* (Sabahattin Zaim University); Sirisha Potluri (Koneru Lakshmaiah Education Foundation, Hyderabad)
14:45 ~ 15:00	#108 Improved Transformer Attention Neural Network for Cognitive Estimation from Brain sMRI (Remote) Yanteng Zhang (TRENDS Center); Songheng Li (Chengdu University of Information Technology); Congyu Zou (Technischen Universität München); Qiang Liu (Chengdu University of Information Technology); Vince Calhoun* (TRENDS Center)
15:00 ~ 15:15	#157 Inter-Slice Dual Cross Attention and Class-Level Alignment for 2.5D Medical Image Segmentation Hyunji Lee* (Kyungpook National University); Yu Rim Lee (Kyungpook National University); Soo Young Park (Kyungpook National University); Won Young Tak (Kyungpook National University); Soon Ki Jung (Kyungpook National University)
15:15 ~ 15:30	#221 Attention-Driven Semantic Segmentation of Liver Parenchyma in Ultrasound Imaging with Application to Progressive NASH Risk Stratification Chun-Chia Ku (National United University); Hao-Jen Wang (National Taiwan University); Chih-Kai Ku (National United University); Chi-Sheng Chang (National United University); Chia-Yen Lee* (National Yang Ming Chiao Tung University)
15:30 ~ 15:45	
15:45 ~ 16:00	

August 12	Main 10: IoT and Signal Analytics (1) Room: Room 218 Session Chair: Prof. Sachi Nandan Mohanty (VIT-AP University)
14:15 ~ 14:30	#18 EEG-based Eye Tracking with Combination of Self-Attention and Long-Short-Term Memory Model Thi-Oanh Ha* (Chonnam National University); Doan-Huong Doan (Electric Power University); Hieyong Jeong (Chonnam National University)
14:30 ~ 14:45	#49 Fake News Detection and Classification to Counter Misinformation in Online Social Networks Using Natural Language Processing Udit Narayana Kar* (VITAP UNIVERSITY); Medeswara Rao Kondamudi (VITAP UNIVERSITY); Somya Ranjan Sahoo (VITAP UNIVERSITY); Phani Krishna Bulasara (VITAP UNIVERSITY); Yadavalli Uday Shankar (VITAP UNIVERSITY)
14:45 ~ 15:00	#93 IoT WITH EDGE COMPUTING BASED AGRO-ECONOMIC MODEL FOR SUSTAINABLE FARMING Sirisha Potluri (Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Bowrampet, Hyderabad-500043, Telangana, India.); Shweta Sankhwar (Department of Computer Science, Maitreyi College (University of Delhi)); Ming Yang (Department of Information Technology College of Computing and Software Engineering Kennesaw State University - Marietta Campus); Sucharitha G (Department of Computer Science and Engineering, Anurag University Venkatapur Village, Hyderabad); Sachi Nandan Mohanty* (School of Computer Science and Engineering(SCOPE) VIT-AP University, Amaravati Andhra Pradesh)
15:00 ~ 15:15	#128 Data-driven RF Tomography via Cross-modal Sensing and Continual Learning Yang Zhao* (Harbin Institute of Technology Shenzhen); Tao Wang (Harbin Institute of Technology Shenzhen); Said Elhadi (Harbin Institute of Technology Shenzhen)
15:15 ~ 15:30	#167 The Relationship Between Surface Electromyography and Grip Strength in Healthy Adults Chun-Ju Hou (Southern Taiwan University of Science and Technology); Mubarik Ibrahim (Southern Taiwan University of Science and Technology); Ji-Jer Huang (Southern Taiwan University of Science and Technology); Min-Wei Huang (Kaohsiung Municipal Kai-Syuan Psychiatric Hospital); Yen-Ting Chen* (Southern Taiwan University of Science and Technology)
15:30 ~ 15:45	
15:45 ~ 16:00	

August 12	Main 11: Forensic Analysis of Manipulated or AI-Generated Content Room: Room 215 Session Chair: Dr. Paolo Spagnolo (CNR-ISASI Lecce)
16:30 ~ 16:45	#175 Audio Source Identification using Delta-Delta MFCC Features Athar Ali (IIT Roorkee); Vinod Pankajakshan* (IIT Roorkee); Shivani Sharma (Central Forensic Science Laboratory, Chandigarh)
16:45 ~ 17:00	#112 Dare to Plagiarize? Plagiarized Painting Identification and Retrieval Sophie Zhou (Cheyenne Mountain High School); Shu Kong* (Texas A&M University)
17:00 ~ 17:15	

17:15 ~ 17:30	
17:30 ~ 17:45	
17:45 ~ 18:00	
18:00 ~ 18:15	

August 12	Main 12: IoT and Signal Analytics (2) Room: Room 218 Session Chair: Prof. Jun-Wei Hsieh(National Yang Ming Chiao Tung University)
16:30 ~ 16:45	#4 TriMNet-P: Tri-Modality Network for Phishing Attack Detection on Social and Digital Communication Platforms Suneeta Satpathy (SOA Deemed to be University); Pratik Swain (Sri Sri University); Khasim Syed* (School of Computer Science & Engineering VIT - AP University)
16:45 ~ 17:00	#159 Position-Aware CNN-Transformer Model for Deepfake Detection Oscal T.-C. Chen* (National Chung Cheng University); Cheng Tai Tsai (National Chung Cheng University); Yu Xin Chen (National Chung Cheng University)
17:00 ~ 17:15	#94 Adaptive Attention Link-based Regularization for Vision Transformers Heegon Jin (Chung-Ang University); Jongwon Choi* (Chung-Ang University)
17:15 ~ 17:30	#207 A Cooperative Dispatch Framework for Heterogeneous Unmanned Vehicles Based on Latent Diffusion and Large Language Models Chao-Yang Lee* (National Yunlin University of Science and Technology); Kang-Che CHING (National Yunlin University of Science and Technology)
17:30 ~ 17:45	
17:45 ~ 18:00	
18:00 ~ 18:15	

August 13 (Wednesday)

August 13	Session: Adjoint Room: Advantech ICH Moderator: Prof. Ming-Ching Chang and Prof. Jun-Wei Hsieh
11:45 ~ 13:00	

August 13	Main 13: Remote Session Room: Room 215 Session Chair: Prof. Chih-Chung Hsu (National Yang Ming Chiao Tung University)
8:30 ~ 8:45	#106 Decoding the Flow: CauseMotion for Emotional Causality Analysis in Long-form Conversations (Remote) Yuxuan Zhang* (Xi'an Jiaotong-Liverpool University); Yulong Li (MBZUAI; Xi'an Jiaotong-Liverpool University); Feilong Tang (Monash; MBZUAI); Zichen Yu (Xi'an Jiaotong-Liverpool University); Ming Hu (Monash; MBZUAI); Zhixiang Lu (Xi'an Jiaotong-Liverpool University); Haochen Xue (MBZUAI; Xi'an Jiaotong-Liverpool University); Zhaodong Wu (Xi'an Jiaotong-Liverpool University); Kang Dang (Xi'an Jiaotong-Liverpool University); Imran Razzak (MBZUAI); Jionglong Su (Xi'an Jiaotong-Liverpool University)
8:45 ~ 9:00	#158 CE-KD: Class-Wise Expert-based Knowledge Distillation for Facial Expression Recognition (Remote) Khin Cho Win* (IIT Hyderabad); Zahid Akhtar (State University of New York Polytechnic Institute); C. Krishna Mohan (Indian Institute of Technology Hyderabad)
9:00 ~ 9:15	#37 XLSR-Kanformer: A KAN-Intergrated model for Synthetic Speech Detection (Remote) Phuong Tuan Dat (Hanoi University of Science and Technology); Tran Huy Dat* (Institute for Inforcomm Research)
9:15 ~ 9:30	#125 Unsupervised Energy-Based Model for the Identification of Out-Of-Distribution Copy Detection Patterns (Remote) Marc Chapus* (INSA Lyon, LIRIS); Carlos Crispim-Junior (Univ Lyon, Lyon 2, LIRIS); Véronique EGLIN (INSA-LIRIS); Atilla BASKURT (INSA Lyon)

August 13	Main 14: Vision-Language, LLM, and Foundational Models Room: Room 218 Session Chair: Prof. Yi-Zeng Hsieh (National Taiwan University of Science and Technology)
8:30 ~ 8:45	#19 SOPP: Transfer Learning with Scene-Oriented Prompt Pool on 3D Object Detection Ching-Hung Cheng (National Yang Ming Chiao Tung University); Hsiu-Fu Wu (Internet of Things Laboratory, Chunghwa Telecom Laboratories); Bing-Chen Wu (National Yang Ming Chiao Tung University); Khanh-Phong Bui (National Yang Ming Chiao Tung University); Van-Tin Luu (National Yang Ming Chiao Tung University); Ching-Chun Huang* (National Yang Ming Chiao Tung University)
8:45 ~ 9:00	#20 Task-Adaptive Open-Set Detection with Prompt-Tuned Adaptors Kimin Yun* (ETRI); Kangmin Bae (ETRI); Yuseok Bae (ETRI)

9:00 ~ 9:15	#149 Active Learning for Finely-Categorized Image-Text Retrieval by Selecting Hard Negative Unpaired Samples Dae Ung Jo* (Kyungpook National University); Kyuewang Lee (Seoul National University); Jaeho Chung (Seoul National University)
9:15 ~ 9:30	#31 Enhancing Weakly Supervised Video Grounding via Diverse Inference Strategies for Boundary and Prediction Selection Sunoh Kim* (Dankook University); Daeho Um (Samsung Electronics)

August 13	Main 15: Signal and Multi-modal Analytics Room: Room 217 Session Chair: Dr. Peter Tu (GE Aerospace Research)
8:30 ~ 8:45	#141 Nunchi-Aware Multi-Agent Chatbots for Socially Contextual Response Generation Dae Hong Kim* (Seoul National University) Hyeongseok Ko (Seoul National University)
8:45 ~ 9:00	#105 Comparing LSTM and GRU for Fall Detection in FMCW Radar-Based Point Cloud Data Istiqomah* (Telkom University); Khilda Afifah (Telkom University); Fiky Y. Suratma (Telkom University)
9:00 ~ 9:15	#8 Modeling Spatio-Temporal Dynamics by Graph Attention Network for Distributed Multi-Microphone Sound Event Classification Vijay John (RIKEN); Yasutomo Kawanishi* (RIKEN)
9:15 ~ 9:30	#23 Wireless Body Area Network Optimization using Genetic Algorithm Somya Ranjan Sahoo* (VITAP UNIVERSITY); Phani Krishna Bulasara (VITAP UNIVERSITY); Medeswarao Kondamudi (VITAP UNIVERSITY); Nathani Varshith (VITAP UNIVERSITY); G V Himaleswar Reddy (VITAP UNIVERSITY); Vudattu Praneethnadh (VITAP UNIVERSITY)

August 13	Main 16: Multi-modal Data Processing and Trustworthy AI Room: Room 215 Session Chair: Dr. Chih-Fan Hsu (Inventec Corp.)
9:45 ~ 10:00	#15 Addressing Illiteracy of Vision-Language Model in Underrepresented Language Through Image-Text Mix Augmentation Scheme Seungju Lee (Samsung Software Academy for Youth); Heejung Kim (Samsung Software Academy for Youth); Jongwon Seo (Samsung Software Academy for Youth); Minwook Kim (Samsung Software Academy for Youth); Seoyoung Lee (Samsung Software Academy for Youth); WonChul Shin (Samsung Software Academy for Youth); Sunoh Kim* (Dankook University)
10:00 ~ 10:15	#81 Heart Disease Classification using FusionNet to Extract Spatiotemporal Features from ECG Signal Thi-Oanh Ha (Chonnam National University); Huong-Giang Doan (Electric Power University); Hieyong Jeong* (Chonnam National University)
10:15 ~ 10:30	#87 Detection of Videos with Audio-Visual Inconsistency for Video Representation Learning Soohyun Park (Chung-Ang University); Hyoungjun Lim (Chung-Ang University); Jongwon Choi* (Chung-Ang University)

10:30 ~ 10:45	#150 Brain region-based attention network for Alzheimer’s disease detection from multimodal imaging (Remote) Xupeng Kou (China Agricultural University); Yanteng Zhang (TRENDS Center); Zibo Zhao (Chengdu University); Anees Abrol (Georgia State University); Vince Calhoun* (TRENDS Center)
10:45 ~ 11:00	#54 Fine-Grained Video Indexing and Retrieval with Vision-Language Models Dong Gun Park (Handong Global University); Soyeon Park (Handong Global University); Chang Ha Lee (GMDSOFT); Hyunkyoo Choi (Korea Institute of Science and Technology Information); Charmgil Hong* (Handong Global University)
11:00 ~ 11:15	#182 Distributional Uncertainty for Out-of-Distribution Detection Jinyoung Kim* (Chung-Ang Uni.); DaeUng Jo (Kyungpook National University); Kimin Yun (ETRI); Jeonghyo Song (Chung-Ang Uni.); YoungJoon Yoo (Chung-Ang Uni.)
11:15 ~ 11:30	#88 Living Under the Stare: Ethical Implications of AI Technologies in Surveillance Capitalism Nisha Daga* (Indian Institute of Technology Jodhpur); Deepa Shukla (Indian Institute of Technology Jodhpur); George Kodimattam Joseph (Indian Institute of Technology Jodhpur)

August 13	Main 17: Datasets and Evaluation Room: Room 218 Session Chair: Prof. Ching-Chun Huang (National Yang Ming Chiao Tung University)
9:45 ~ 10:00	#161 An Empirical Study on Face Re-identification Using Machine Learning Models Zepeng Peng* (University of Macau)
10:00 ~ 10:15	#48 A new Path-oriented Optimization Procedure for consistent Person Reidentification in a Camera Network Cyrille Equoy* (LAAS-CNRS, University of Toulouse, CNRS, UPS); Alessandro Goldwurm (LAAS-CNRS, CNRS); Cyrille Briand (LAAS-CNRS, University of Toulouse, CNRS, UPS); Frédéric Lerasle (LAAS-CNRS, University of Toulouse, CNRS, UPS)
10:15 ~ 10:30	#71 Zero-Shot Scene Understanding for Automatic Target Recognition Using Large Vision-Language Models (Remote) Yasiru Ranasinghe (Johns Hopkins University); Vibashan VS (Johns Hopkins University); James Uplinger (DEVCOM Army Research Laboratory); Celso De Melo (DEVCOM Army Research Laboratory); Vishal M. Patel* (Johns Hopkins University)
10:30 ~ 10:45	#129 InfraNet: An Ensemble Approach for Real-time Wildlife Detection using Infrared Thermal Imaging Dheeraj Dhillon (Indian Institute of Technology Roorkee); Vinod Pankajakshan* (Indian Institute of Technology Roorkee); Parvathi MS (C-DAC Thiruvananthapuram); Sreejith Sajeed (C-DAC Thiruvananthapuram); Joby Thomas (C-DAC Thiruvananthapuram); Byju C (Centre for Development of Advanced Computing (CDAC)); KR Rajesh (Centre for Development of Advanced Computing (CDAC))
10:45 ~ 11:00	#172 CoT-Segmenter: Enhancing OOD Detection in Dense Road Scenes via Chain-of-Thought Reasoning

	Jeonghyo Song* (Chung-Ang University); Kimin Yun (ETRI); DaeUng Jo (Kyungpook National University); Jingyoung Kim (Chung-Ang University); Youngjoon Yoo (Chung-Ang University)
11:00 ~ 11:15	#35 Head Orientation Estimation from a Low-Resolution Far-Infrared Image Sequence Taiyo Tamaki* (Nara Institute of Science and Technology); Motoharu Sonogashira (Riken); Kazuya Kitano (Nara Institute of Science and Technology); Yuki Fujimura (Nara Institute of Science and Technology); Takuya Funatomi (Nara Institute of Science and Technology); Yasuhiro Mukaigawa (Nara Institute of Science and Technology); Yasutomo Kawanishi (Riken)
11:15 ~ 11:30	#126 MMS-CLIP: A Robust Framework for Multimodal Memecoin Market Sentiment Analysis Min-Quan Wang* (Chung Yuan Christian University); Li-Ze Yang (Chung Yuan Christian University); Hung-Chun Liu (Chung Yuan Christian University); Kuo-Chen Li (Chung Yuan Christian University)

August 13	Main 18: Systems and Applications for Public Safety Room: Room 215 Session Chair: Prof. Wen-Hung Liao (National Chengchi University)
11:45~12:00	#77 MAMAT: 3D Mamba-Based Atmospheric Turbulence Removal and its Object Detection Capability Paul Hill (University of Bristol); Zhiming Liu (University of Bristol); Nantheera Anantrasirichai* (University of Bristol)
12:00~12:15	#76 Few-shot Semantic Segmentation with Uncertainty-based Joint Prototypes Yumin Lim (Samsung SDS); Doyoung Park (Samsung SDS); Naresh Reddy Yarram (Samsung SDS); Minkyu Kim (Samsung SDS); Sunjin Kim (Samsung SDS); Seongho Joe (Samsung SDS); Youngjune Gwon (Samsung SDS); Jongwon Choi* (Chung-Ang University)
12:15~12:30	#34 Proactive pedestrian safety system by fusing trajectory prediction with semantic road region classification Sungchan Oh* (Electronics and Telecommunications Research Institute); Dae Hoe Kim (Electronics and Telecommunications Research Institute); Je-Seok Ham (Electronics and Telecommunications Research Institute); Jinyoung Moon (Electronics and Telecommunications Research Institute)
12:30~12:45	#174 Deep Learning-Based Damage Detection for an Intelligent Monitoring System for Cultural Heritage Dohun Kim (ETRI); Minho Bae (Electronics and Telecommunications Research Institute); Hayoung Lee* (Electronics and Telecommunications Research Institute); Seong-hee Lee (Electronics and Telecommunications Research Institute)
12:45~13:00	#177 Pixel-Level Fire Origin Localization via Digital Twin Mapping for Wildfire Surveillance Framework Dongyoung Kim* (Electronics and Telecommunications Research Institute); Sangwon Kim (Electronics and Telecommunications Research Institute); In-su Jang (Electronics and Telecommunications Research Institute); Kwang-Ju Kim* (Electronics and Telecommunications Research Institute); Kyoungoh Lee* (Electronics and Telecommunications Research Institute)

13:00~13:15	#64 Enhancing Fisheye Lens Object Detection with Generative Data Augmentation Wen-Hung Liao* (National Chengchi University); Pin-Chieh Cheng (National Chengchi University)
13:15~13:30	#145 Automated Chest X-ray Captioning and Report Generation Using CheXNet and BioGPT Deepasikha Mishra* (VIT-AP University); Koneru Pranav Sai (VIT-AP University); Kodavati Sri HarshaVardhan (VIT-AP University); Chadalavada Krishna Saketh Ram (VIT-AP University); Keerthi Gabbi Reddy (VIT-AP University)

August 13	Main 19: Systems and Applications for Smart Cities & Critical Infrastructure Room: Room 218 Session Chair: Prof. Chien-Cheng Tseng (National Kaohsiung University of Science and Technology)
11:45~12:00	#41 Robustness Enhancement on Visually Guided UAV Autonomous Landing Min-Hsien Chiang* (NCCUCS); Gong-Yi Lee (NCCUCS); Jyi-Shane Liu (NCCUCS)
12:00~12:15	#55 Depth-aware pedestrian situation classification for enhanced safety monitoring in smart cities Dae Hoe Kim* (Electronics and Telecommunications Research Institute); Jinyoung Moon (Electronics and Telecommunications Research Institute)
12:15~12:30	#61 An Intelligent Edge-AI Assisted Smart Pedestrian Crossings Framework for Smart Transport System of Smart Cities K HEMANT REDDY* (VIT AP university); Raj Kumar Baliyar Singh (VIT-AP University); Tathagata Guha Ray (VIT-AP University)
12:30~12:45	#131 Data Denoising of Sensor Network Using Polynomial Graph Filter Designed by Gegenbauer Polynomial Chien-cheng Tseng* (Taiwan); Su-Ling Lee (Chang Jung Christian University)
12:45~13:00	#102 PredDETR: An End-to-End Transformer-Based Model for One-Stage Pedestrian Trajectory Prediction Yongjin Kwon* (ETRI); Sungchan Oh (ETRI); Jinyoung Moon (ETRI); Yeonseung Chung (KAIST)
13:00~13:15	#148 AAAD: Adaptive Activated Anomaly Detection on Varied Backgrounds Ken Miyamoto* (Mitsubishi Electric Corporation); Teng-Yok Lee (Mitsubishi Electric Corporation); Akira Minezawa (Mitsubishi Electric Corporation)
13:15~13:30	#222 Toward Safer Work Zones: Predictive Model of Construction Risk of Work Zone on Taiwan's Freeways Kuo-Chuan Wu (National Pingtung University)

Workshop 1: Intelligent Visual Computing Systems and Security Concerns (IVCS)

August 11	Workshop 1-1 Room: Advantech ICH Session Chair: Prof. Isack Farady
14:15 ~ 14:20	Opening Remarks & Workshop Overview by Chair
14:20 ~ 15:10	Keynote Speech by Prof. Jong Taek Lee (Kyungpook National University, South Korea)
15:10 ~ 15:30	Paper 1: Facial Paralysis Classification Based on Multi-Level Feature Fusion and Dimensionality Reduction WenChuan Wu
15:30 ~ 15:50	Paper 2: A Secured Reversible Data Hiding Technique Using Interpolation Image Based on Multiple Hidden Data Encryption Lu Tzu-Chuen
15:50 ~ 16:10	Paper 3: Spine-Guided Kidney Localization in KUB Radiographs Using YOLO Yung-Ming Kuo

August 11	Workshop 1-2 Room: Advantech ICH Session Chair: Prof. Isack Farady
16:30 ~ 16:50	Paper 4: Hybrid Denoising of B-Scan UWB Radar Data Using Higher-Order Statistics and Wavelet Shrinkage Rahmad Sadli
16:50 ~ 17:10	Paper 5: Implementation of Edge AI for Web-Based Atopic Dermatitis Skin Disease Classification Using Streamlit Kahlil Muchtar
17:10 ~ 17:30	Paper 6: Improving Heart Disease Diagnosis via a Voting Ensemble Approach Yi-Hui Chen

Workshop 2: Advanced Deep Learning for Multimedia Applications

August 12	Session: Workshop 2-1 Room: Advantech ICH Session Chair: Prof. Guo-Shiang Lin
14:15 ~ 14:35	Paper 1: Soccer Field Line Segmentation and Localization with Geometrical Consistency Fine-Tuning Che-Chia Wu, Tsai-Ling Tu, Huang-Chia Shih
14:35 ~ 14:55	Paper 2: Evaluating Content Consistency in Encoded Images and Videos for Forgery Detection Kai-Ming Chang, Chih-Hung Han, Po-Chyi Su
14:55 ~ 15:15	Paper 3: Light-weight Vision Transformer-based Semantic Segmentation for Medical Images

August 12	Session: Workshop 2-1 Room: Advantech ICH Session Chair: Prof. Guo-Shiang Lin
14:15 ~ 14:35	Paper 1: Soccer Field Line Segmentation and Localization with Geometrical Consistency Fine-Tuning Che-Chia Wu, Tsai-Ling Tu, Huang-Chia Shih
14:35 ~ 14:55	Paper 2: Evaluating Content Consistency in Encoded Images and Videos for Forgery Detection Kai-Ming Chang, Chih-Hung Han, Po-Chyi Su
	Wen-Ling Chou, Guo-Shiang Lin, Ku-Yaw Chang, Sheng-Lei Yan, Wei-Cheng Yeh
15:15 ~ 15:35	Paper 4: Retinal Vessel Segmentation Using an Attention-Enhanced U-Net Architecture Chuna-Wang Chang, Chi-Hong Qiu, Cheng-Mu Tsai
15:35 ~ 15:55	Paper 5: A Real-Time Deep Learning Approach to Badminton Player Positioning and Movement Tracking Isack Farady, Chih-Yang Lin

August 12	Session: Workshop 2-2 Room: Advantech ICH
16:30 ~ 18:00	invited talk: Prof. Chen-Kuo Chiang (National Chung Cheng University) Title: Frontiers in Prototype Learning for Unsupervised Domain Adaptation in Emerging Visual Tasks

PETS Challenge

August 12	Session: PETS Challenge Room: 217 Session Chair: Prof. James Ferryman & Dr. Thanet Markchom
14:15 ~ 18:00	1. Welcome and opening remarks 2. Invited speaker #1 3. Invited speaker #2 Speaker: Panagiotis Ioannou (European Dynamics, Greece) Title: An advanced platform to improve the EUROpean Multi Authority bordeR Security efficiency and cooperation (EURMARS) 4. Overview of the PETS2025 Challenge 5. Presentation of Submissions from Challenge Participants 6. Overall Evaluation Summary & Winners Announcement 7. Panel/discussion

NAVI Challenge

August 12	Session: NAVI Challenge Room: 217 Session Chair: Dr. Kim Kwangju
9:45 ~ 11:45	1. Invited talk 2. Presentation on the NAVI Challenge overview 3. Winner team's presentation 4. Wrap-up and closing remarks

Thesis Challenge

August 13	Session: Thesis Challenge Room: Advantech ICH Session Chair: Prof. Yi-Zeng Hsieh (National Taiwan University of Science and Technology)
9:45 ~ 11:45	1. Invited talk 2. Real-time Lane Detection Based on Hybrid Dilated Convolution and Convolutional Block Attention Module 3. An Underwater Image Enhancement Model with Adaptive Color Correction and Optical Fidelity 4. A Transformer-Mamba UNet for Breast Tumor Segmentation 5. ScalpAIoT: An Edge-Cloud Collaborative System for Robust Scalp Health Inspection 6. Typhoon-Induced Power Outage Forecasting in Taiwan via Conditional Diffusion Models with Spatiotemporal Meteorological Priors

