

## Workshop technical program

<b>Date: July 24, 2024 Time: 13:00 – 20:00</b>	
<b>Time</b>	Main room 4th Floor, A1 Building
13:00 – 13:30	<b>Registration</b>
13:30 – 13:40	<b>Welcoming speech</b> Representer of Hanoi University of Industry (HaUI), Vietnam
13:40 – 13:45	Message from the President of APSIPA <b>Prof. Tatsuya Kawahara</b> , Kyoto University, Japan; APSIPA President
13:45 – 14:05	Keynote Talk: “ <i>Decoding and Synthesizing Speech from ECoG using Transformer-based Models</i> ” <b>Prof. Toshihisa Tanaka</b> , Tokyo University of Agriculture and Technology, Japan; APSIPA Vice-President
14:05 – 14:25	Keynote Talk: “ <i>Deep Learning for Steel Surface Defect Detection and Applications</i> ” <b>Prof. Kenneth Lam</b> , The Hong Kong Polytechnic University, Hong Kong; IEEE SPS Vice-President
14:25 – 14:45	Keynote Talk: “ <i>Supervised and Self-Supervised Image Denoising</i> ” <b>Prof. Nam Ik Cho</b> , Seoul National University, Korea; APSIPA Korean Chapter Chairman
14:45 – 15:05	Keynote Talk: “ <i>Order Learning and Its Applications to Computer Vision</i> ” <b>Prof. Chang-Su Kim</b> , Korea University, Korea
15:05 – 15:35	<b>Poster Section and Coffee break</b>
15:35 – 15:55	Keynote Talk: “ <i>DMESH: A Structure-Preserving Diffusion Model for 3D Mesh Denoising</i> ” <b>Prof. Sanghoon Lee</b> , Yonsei University, Korea
15:55 – 16:15	Keynote Talk: “ <i>Model-based Deep Learning for Low-level Vision</i> ” <b>Prof. Chul Lee</b> , Dongguk University, Korea
16:15 – 16:25	Keynote Talk: “ <i>Neural Network-based Video Coding Techniques with Future Research Issues</i> ” <b>Prof. Je-Won Kang</b> , Ewha Womans University, Korea
16:25 – 16:45	Keynote Talk: “ <i>Advances in High-Resolution 3D Modeling with Structured Light</i> ” <b>Prof. Jae-Sang Hyun</b> , Yonsei University
16:45 – 17:05	Keynote Talk: “ <i>Glass reflection removal of 360° images and 3D point clouds</i> ” <b>Prof. Jae-Young Sim</b> , Ulsan National Institute of Science and Technology, Korea
17:05 – 17:30	<b>Group Photo</b>
17:30 – 20:00	<b>Dinner</b>

## Poster Session

Time: 15:05 – 15:35

No	Paper Title	Session chairs
1	Efficient Imaging of Ultrasonic Scattering Objects via Beamforming and Sparse Recovery	<b>Dr. Hoang Manh Kha</b> <b>Dr. Dang Trong Hop</b>
2	Structural Analysis of Asian and African Rice Panicles via Transfer Learning	
3	GILED: Lesion Detection of Gastrointestinal Tract from Endoscopic Images and Medical Notes	
4	Enhancing Shear Wave Propagation Analysis in Tissue with Directional Filtering of Reflected Waves	
5	Marker-aware ovarian tumor segmentation from ultrasound images	
6	Improvement of Ovarian tumors Classification from Ultrasound Images with Data Augmentation by DCGAN	
7	DeepHIM: Deep Learning-based Signal Detector for Hybrid Downlink IM-NOMA	
8	Enhancing Cell segmentation using Deep Learning Models by Custom Processing Techniques	
9	Automated Pseudo-Label Generation and Parallel Computing for Enhanced Few-Shot Medical Image Segmentation	
10	SKGSum: A Knowledge-Augmented Vietnamese Long Document	
11	A method for multilingual text-based person retrieval	
12	EEG based diagnosing Alzheimer's disease using frequency analysis	
13	Optimizing energy consumption of LoRa sensor network for forest environmental monitoring using nano-power system timer TPL5111	
14	Bee Counting with Noisy Labels: A Density Map-Based Localization Approach	
15	Does Atlas Choice Matter? An Empirical Study in Alzheimer's Diagnosis Using FDG-PET Images	
16	Enhanced deep learning-based model for 3D Object Detection in Autonomous Vehicles Adapted to Traffic Conditions in Vietnam	
17	A Solution for Abnormal Peanut Detection in the Product Processing Line	

18	An isolated Vietnamese Sign Language Recognition method using a fusion of RGB and Depth information based on Convolutional Neural Networks	
19	A method based on Deep Progressive Reinforcement Learning for Vietnamese Sign Language Recognition	
20	A Practical Approach for Identifying Intrusions on the Data Conversion Device in Industrial IoT	
21	Tensor decomposition-based EEG spectral classification of neurodegenerative diseases	
22	Towards Semantic Interoperability between Smart IoT Devices in Japan and Smart Energy Systems in Europe	
23	Spatial Pilot Reassignment in Channel Training Phase of multi-ARS Cell Free System	
24	Pilot-Based Clustering Method in Multi-ARS Cell-Free MIMO Systems	
25	Automated Tree Instance Segmentation and Mapping in Forests Using UAV-Based RGB Imaging and Deep Learning on Vietnamese Forestry Datasets	
26	A novel Satellite images segmentations using semi-supervised multi-view fuzzy clustering method	