

MMSP 2024 Sessions

October 2, Wednesday

Special Session on Latent Space Metrics in AI to Improve Multi-Object Detection (MOD), Tracking (MOT), Re-ID and 3D Segmentation Tasks

Session Chair: Paul Salama

October 2, 8:30-10:10

Room: 214ABCD

- **Multi-level Semi-Coupled Dictionary Learning for Reliable Person Re-Identification**
 - Hongtian Zhao (Xinjiang University)
- **Efficient Microscopic Image Instance Segmentation for Food Crystal Quality Control**
 - Xiaoyu Ji (Purdue University); Jan Allebach (Purdue University); Ali Shakouri (Purdue University); Fengqing Maggie Zhu (Purdue University, USA)
- **Optimizing ROI Benefits Vehicle ReID in ITS**
 - Mei Qiu (IUPUI); Lauren Christopher (Purdue); lingxi li (Purdue University); stanley chien (Purdue University); yaobin chen (Purdue University)
- **KPCA-CAM: Visual Explainability of Deep Computer Vision Models using Kernel PCA**
 - Sachin Karmani (University of Waterloo); Thanushon Sivakaran (University of Waterloo); Gaurav Prasad (University of Waterloo); Mehmet Ali (University of Waterloo); Paul Yang (University of Waterloo); Sheyang Tang (University of Waterloo)
- **A Quantitative Metric of Confidence For Segmentation of Nuclei in Large Spatially Variable Image Volumes**
 - Liming Wu (Purdue University); Alain Chen (Purdue University); Paul Salama (Purdue University); Kenneth Dunn (Indiana University); Seth Winfree (National Institute of Allergy and Infectious Diseases); Edward Delp (Purdue University)

Keynote: Contemporary Visual Computing for 6G Semantic Communications

Speaker: Chang Wen Chen

October 2, 10:30-11:30

Room: 214ABCD

Poster Session 1

Session Chair: Tanaya Guha

October 2, 13:00-14:00

Room: 218ABC

- **Reveal Fluidity Behind Frames: A Multi-Modality Framework for Action Quality Assessment**
 - SIYUAN XU (City University of Hong Kong)*; PEILIN CHEN (City University of Hong Kong); YUE LIU (City University of Hong Kong); MENG WANG (City University of Hong Kong); Shiqi Wang (City University of Hong Kong); Sam Kwong (Lingnan University)

- **Multi-network Ensembling for GAN Training and Adversarial Attacks**
 - Shuting Zheng (Guangzhou university); Yuan-Gen Wang (Guangzhou University)*
- **Dual-Path Multi-Scale Transformer for High-Quality Image Deraining**
 - Huiling Zhou (Shenyang Aerospace University)*; Hongming Chen (Dalian Maritime University); Xianhao Wu (Shenyang Aerospace University); Yufeng Li (Shenyang Aerospace University)
- **Exploiting Consistency-Preserving Loss and Perceptual Contrast Stretching to Boost SSL-based Speech Enhancement**
 - Muhmmad Salman Khan Khan (student)*; Moreno La Quatra (Kore University of Enna); Kuo-Hsuan Hung (Academia Sinica); Szu-Wei Fu (NVIDIA); Sabato M Siniscalchi (Università degli Studi di Palermo); Yu Tsao (Academia Sinica)
- **Dynamic Crowd Routing: RL-Driven Crowd Dynamics**
 - Daniele Della Pietra (University of Trento); Nicola Garau (University of Trento)*; Nicola Conci (UNITN); Fabrizio Granelli (University of Trento)
- **Inter-Camera Color Correction for Multispectral Imaging with Camera Arrays Using a Consensus Image**
 - Katja Kossira (Chair of Multimedia Communications and Signal Processing, Friedrich-Alexander University Erlangen-Nürnberg)*; Jürgen Seiler (Chair of Multimedia Communications and Signal Processing, Friedrich-Alexander University Erlangen-Nürnberg); André Kaup (Friedrich-Alexander-Universität Erlangen-Nürnberg)
- **FMiFood: Multi-modal Contrastive Learning for Food Image Classification**
 - Xinyue Pan (Purdue University)*; Jiangpeng He (Purdue University); Fengqing Maggie Zhu (Purdue University, USA)
- **Lightweight Reinforcement-Based Approach for HDR Conversion**
 - Chansoon Heo (Sungkyunkwan University); Byeungwoo Jeon (Sungkyunkwan University)*
- **Towards Light-weight Transformer-based Quality Assessment Metric for Augmented Reality**
 - Aymen SEKHRI (Université de Poitiers)*; Seyed Ali Amirshahi (NTNU); Chaker Larabi (Université de Poitiers)
- **Image Quality Assessment in End-to-end Face Analytics Systems**
 - Praneet Singh (Purdue)*; Amy R. Reibman (Purdue University)
- **CT-Bound: Robust Boundary Detection From Noisy Images Via Hybrid Convolution and Transformer Neural Networks**
 - Wei Xu (Purdue University); Junjie Luo (Purdue University); Qi Guo (Purdue University)*

Oral session 1: Compression for humans and machines

Session Chair: Meng Wang

October 2, 14:00-15:40

Room: 214ABCD

- **Scalable Image Coding for Humans and Machines Using Feature Fusion Network**
 - Takahiro Shindo (Waseda university)*; Taiju Watanabe (Waseda university); Yui Tatsumi (Waseda university); Hiroshi Watanabe (Waseda University)

- **JPEG AI Compressed Domain Face Detection**
 - Ayman Alkhateeb (University of Brescia); Alessandro Gnutti (University of Brescia)*; Fabrizio Guerrini (University of Brescia); Riccardo Leonardi (UNIBS); Joao Ascenso (IST-IT); Fernando Pereira (Instituto Superior Técnico - Instituto de Telecomunicações)
- **Feature-Preserving Rate-Distortion Optimization in Image Coding for Machines**
 - Samuel Fernandez (University of Southern California)*; Eduardo Pavez (University of Southern California); Antonio Ortega (University of Southern California)
- **Luma Range Scaling for Enhanced VVC Efficiency in Video Coding for Machines**
 - Tero Partanen (Tampere University)*; Alban Marie (INSA Rennes); Alexandre MERCAT (Tampere University); Jarno Vanne (Tampere University); Miska Hannuksela (Nokia Technologies); Honglei Zhang (Nokia Technologies); Alireza Aminlou (Nokia Technologies); Francesco Cricri (Nokia Technologies)
- **Learned Multimodal Compression for Autonomous Driving**
 - Hadi Hadizadeh (Simon Fraser University); Ivan Bajic (Simon Fraser University)*

Oral session 2: Point cloud and 3D processing

Session Chair: Mylene Farias

October 2, 16:00-17:40

Room: 214ABCD

- **ECRF: Entropy-Constrained Neural Radiance Fields Compression with Frequency Domain Optimization**
 - Soonbin Lee (Fraunhofer HHI)*; Fangwen Shu (Fraunhofer HHI); Yago Sanchez de la Fuente (Fraunhofer HHI); Thomas Schierl (Fraunhofer HHI); Cornelius Hellge (Fraunhofer HHI)
- **Point Cloud Geometry Coding with Relational Neighborhood Self-Attention**
 - Mohammadreza Ghafari (Instituto Superior Técnico - Universidade de Lisboa, and Instituto de Telecomunicações)*; André F. R. Guarda (Instituto de Telecomunicações); Nuno M. M. Rodrigues (Politécnico de Leiria; Instituto de Telecomunicações); Fernando Pereira (Instituto Superior Técnico - Instituto de Telecomunicações)
- **A Comparative Assessment Of Implicit and Explicit Plenoptic Scene Representations**
 - Davi Rabbouni de C. Freitas (INRIA)*; Ricardo Queiroz (Universidade de Brasília); Ioan Tabus; Christine Guillemot (INRIA)
- **Perception-Driven Point Cloud Quality Assessment through Projections and Deep Structure Similarity**
 - Arthur H S Carvalho (University of Brasília); Pedro Garcia Freitas (University of Brasília)*; Mateus Gonçalves (University of Brasília); Johann Homonai (University of Brasília); Mylene Farias (TEXAS STATE UNIVERSITY)
- **Embedded Bit-Stream Region-of-Interest Coding of Point Cloud Attributes**
 - Victor F Figueiredo (Universidade de Brasília)*; Ricardo Queiroz (Universidade de Brasília)

October 3, Thursday

Special Session on Exploring Generative AI Technologies in Multimedia Signal Processing

Session Chair: Meng Wang

October 3, 8:30-10:10

Room: 214ABCD

- **Light-weighted Temporal Evolution Inference for Generative Face Video Compression**
 - Zihan Zhang (City University of Hong Kong); Bolin Chen (City University of Hong Kong); Shanzhi Yin (City University of Hong Kong); Shiqi Wang (City University of Hong Kong)*; Yan Ye (Alibaba Inc.)
- **Diffusion-based Bit-depth Expansion**
 - Riyu Lu (Harbin Institute of Technology; City University of Hong Kong); Lingyu Zhu (City University of Hong Kong); Baoliang Chen (City University of Hong Kong); Xiaopeng Fan (Harbin Institute of Technology); Shiqi Wang (City University of Hong Kong)*
- **MultiFuser: Multi-modal Fusion Transformer for Enhanced Driver Action Recognition**
 - Ruoyu Wang (Nanyang Technological University)*; Wenqian Wang (NTU); Jianjun Gao (Nanyang Technological University); Dan Lin (Harbin Engineering University); Kim-Hui Yap (Nanyang Technological University); Bingbing LI (Continental Automotive PTE LTD)
- **Enhanced Multi-Resolution Generative Face Video Compression**
 - Renjie Zhou (Alibaba); Ru-Ling Liao (Alibaba)*; Bolin Chen (Alibaba); Yan Ye (Alibaba Inc.); Jie Chen (Alibaba)
- **Multi-Reference Generative Face Video Compression with Contrastive Learning**
 - Goluck Konuko (L2S - CentraleSupélec, Université Paris Saclay); Giuseppe Valenzise (CNRS)*

Keynote: Deepfakes: How This Technology Will Change the World Forever

Speaker: Edward J. Delp

October 3, 10:30-11:30

Room: 214ABCD

Poster session 2

Session Chair: Stanley Chan

October 3, 13:00-14:00

Room: 218ABCD

- **Expanding the Effective Receptive Field for Learned Image Compression**
 - Yalong Y Su (Beijing University of Technology)*; Yunhui Shi (Beijing University of Technology)
- **Federated Data-Driven Kalman Filtering for State Estimation**

- Nikos Piperigkos (University of Patras/ATHENA Research Center)*; Alexandros Gkillas (University of Patras); Christos Anagnostopoulos (Industrial Systems Institute, Athena Research and Innovation Center); Aris Lalos (Industrial Systems Institute, Athena Research Center)
- **Personalized Federated Learning for Cross-view Geo-localization**
 - Christos Anagnostopoulos (Industrial Systems Institute, Athena Research and Innovation Center)*; Alexandros Gkillas (University of Patras); Nikos Piperigkos (University of Patras/ATHENA Research Center); Aris Lalos (Industrial Systems Institute, Athena Research Center)
- **Pixel-weighted Multi-pose Fusion for Metal Artifact Reduction in X-ray Computed Tomography**
 - Diyu Yang (Purdue University)*; Craig Kemp (Eli Lilly and Company); Soumendu Majee (Samsung Research America); Gregory T Buzzard (Purdue University); Charles Bouman (Purdue University)
- **Pose Guided Portrait View Interpolation from Dual Cameras with a Long Baseline**
 - Weichen Xu (Purdue University)*; Yezhi Shen (Purdue University); Qian Lin (HP); Jan Allebach (Purdue University); Fengqing Maggie Zhu (Purdue University, USA)
- **Shadow Augmentation for Handwashing Action Recognition: from Synthetic to Real Datasets**
 - Shengtai Ju (Purdue University)*; Amy R. Reibman (Purdue University)
- **Minimizing Human Labor for In-the-Wild Camera Trap Processing Pipeline**
 - Haoyu Chen (Purdue University)*; Amy R. Reibman (Purdue University)
- **An Exploration of Human Pose Estimation based Cheating Tools for FPS Video Game and Its Defense Solution**
 - Chang Liu (Miami University); Zichun Gao (Miami University); Zhenyu Liao (Miami University); Yue Sun (Miami University); Xianglong Feng (Miami University)*
- **Efficient Image Harmonization via RGB Transformation**
 - Cheng Su (Shandong Normal University)*; Jiande Sun (Shandong Normal University)
- **Modeling the Energy Consumption of the HEVC Software Encoding Process using Processor events**
 - Geetha Ramasubbu (Chair of Multimedia Communications and Signal Processing)*; André Kaup (Friedrich-Alexander-Universität Erlangen-Nürnberg); Christian Herglotz (Friedrich-Alexander-Universität Erlangen-Nürnberg)
- **Bayesian formulation of regularization by denoising – Model and Monte Carlo sampling**
 - Elhadji Cisse Faye (University of Orleans); Mame Diarra FALL (University of Orleans)*; Aladine Chetouani (Université d'Orléans, France); Nicolas Dobigeon (University of Toulouse)

Industry demo

Session Chair: Stanley Chan

October 3, 13:00-14:00

Room: 218D

- **Ali266 Real-Time Transcoding Demonstration for Live Streaming**
 - Jianhua Chen, Shuqing Fang, Zhiwei Huang, Liangwei Yu, Shengyang Xu, Yan Ye, Ru-Ling Liao (Damo Academy, Alibaba Group);

- **Depth from Coupled Optical Differentiation**
 - Junjie Luo, Yuxuan Liu (Elmore Family School of Electrical and Computer Engineering, Purdue University); Emma Alexander (McCormick School of Engineering, Northwestern University); Qi Guo (Elmore Family School of Electrical and Computer Engineering, Purdue University);
- **Data Driven Cooperative Localization of Connected and Autonomous Vehicles**
 - Nikos Piperigkos, Alexandros Gkillas, Christos Anagnostopoulos (Industrial Systems Institute, Athena Research Center, Patras Science Park, Greece & AviSense.AI, Patras Science Park, Greece); Aris S. Lalos (AviSense.AI, Patras Science Park, Greece);
- **MetaHDR: Single Shot High-Dynamic Range Imaging and Sensing Using a Multifunctional Metasurface**
 - Charles Brookshire, Yuxuan Liu, Yuanrui Chen (Elmore Family School of Electrical and Computer Engineering, Purdue University); Wei Ting Chen (SNOChip Inc.); Qi Guo (Elmore Family School of Electrical and Computer Engineering, Purdue University);
- **Generative Face Video Compression towards Diverse Application Functionalities**
 - Bolin Chen (City University of Hong Kong); Yan Ye, Jie Chen, Ru-Ling Liao (Damo Academy, Alibaba Group); Shiqi Wang (City University of Hong Kong).

Keynote + Panel: AI-Driven Compression: Technologies Innovating Visual Experiences

- Speaker: Zoe Liu
- Panel: Ivan Bajic (moderator), Zoe Liu, Andrew Segall, Giuseppe Valenzise
- October 3, 14:00-15:40
- Room: 214ABCD

Oral session 3: Inverse problems

Session Chair: Frederic Dufaux

October 3, 16:00 - 17:40

Room: 214ABCD

- **Denosing for Neuromorphic Cameras Based on Graph Spectral Features**
 - Shimpei Harada (Osaka University)*; Junya Hara (Osaka University); Hiroshi Higashi (Osaka University); Yuichi Tanaka (Osaka University)
- **Residual Domain Super-Resolution Generative Adversarial Networks**
 - Nelson C Francisco (MediaKind)*; Julien Le Tanou (MediaKind)
- **A Sharpness Based Loss Function for Removing Out-of-Focus Blur**
 - Uditangshu Aurangabadkar (Trinity College Dublin)*; Darren A Ramsook (Trinity College Dublin); Anil Kokaram (Trinity College Dublin, Ireland)
- **Embedding Similarity Learning for Extreme License Plate Super-Resolution**
 - Abderrezzaq Sendjasni (University of Poitiers)*; Chaker Larabi (Université de Poitiers)
- **Sparse Convolution Based Point Cloud Attributes Deblocking with Graph Fourier Latent Representation**

- Muhammad Talha (University of Missouri-Kansas City); Birendra Kathariya (University of Missouri-Kansas City); Zhu Li (University of Missouri, Kansas City)*; Anique Akhtar (Qualcomm); Geert Van der Aweera

October 4, Friday

Special Session on Reproducible Neural Visual Coding

Session Chair: Dong Tian

October 4, 8:30-10:30

Room: 214ABCD

- **Compression of Self-Supervised Representations for Machine Vision**
 - Zhihao Duan (Purdue University)*; Fengqing Maggie Zhu (Purdue University, USA)
- **A spatiotemporal decomposition of a video stream based on the retina-inspired filter**
 - Effrosyni Doutsis (Foundation for Research and Technology - Hellas (FORTH))*; Panagiotis Tsakalides (University of Crete, Foundation for Research and Technology - Hellas (FORTH))
- **Towards Reproducible Learning-based Compression**
 - Jiahao Pang (InterDigital)*; Muhammad Asad Lodhi (InterDigital); Junghyun Ahn (InterDigital); Yuning Huang (Purdue University); Dong Tian (InterDigital)
- **On the Rate-Distortion-Complexity Trade-offs of Neural Video Coding**
 - Yi-Hsin Chen (National Yang Ming Chiao Tung University)*; Kuan-Wei Ho (National Yang Ming Chiao Tung University); Martin Benjak (Leibniz Universität Hannover); Jörn Ostermann (Leibniz Universität Hannover); Wen-Hsiao Peng (National Yang Ming Chiao Tung University)
- **Extreme Low Bitrate Image Compression System for Mobile Deployment**
 - Junqi Wu (peking university)*; Wenhong Duan (Shanghai Jiao Tong University); Xianping Ma (the Chinese University of Hongkong (shenzhen)); Jianhui Chang (Peking University); Shanshe Wang (Peking University); Siwei Ma (Peking University, China); Chuanmin Jia (Peking University)
- **Dynamic 6-DoF Volumetric Video Generation: Software Toolkit and Dataset**
 - Mufeng Zhu (Rutgers University)*; Yuan-Chun Sun (National Tsing Hua University); Na Li (Rutgers University); Jin Zhou (George Mason University); Songqing Chen (George Mason University); Cheng-Hsin Hsu (National Tsing Hua University); Yao Liu (Rutgers University)

Oral session 4: Classification and detection

Session Chair: Ivan Bajic

October 4, 10:50-12:10

Room: 214ABCD

- **Enhanced Product Classification Using Learned Prompt Ensembling and Dual Interpolation with CLIP-Based Model**
 - Takahisa Yamamoto (Fujitsu Research of America)*; Koichiro Niinuma (FUJITSU RESEARCH OF AMERICA); Laszlo A Jeni (Carnegie Mellon University)
- **A Multi-Stream Fusion Approach with One-Class Learning for Audio-Visual Deepfake Detection**

- Kyungbok Lee (University of Rochester)*; You Zhang (University of Rochester); Zhiyao Duan (University of Rochester)
- **LAM3D: Leveraging Attention for Monocular 3D Object Detection**
 - Diana A Sas (Technical University of Cluj-Napoca)*; Leandro Di Bella (VUB); Yangxintong Lyu (VUB); Florin Oniga (Technical University of Cluj-Napoca); Adrian Munteanu (Vrije Universiteit Brussel)
- **Anomaly Detection in Satellite Videos using Diffusion Models**
 - AKASH AWASTHI (University of Houston)*; Son T Ly (university of houston); Jaer Nizam (university of houston); Videet Mehta (Massachusetts Institute of Technology); Safwan Ahmad (university of houston); Ramakrishna Nemani (NASA Ames); Saurabh Prasad (University of Houston); Hien V Nguyen (University of Houston)
- **Sketching-based Acoustic Scene Change Detection in Low-Power Embedded Devices**
 - Timm Koppelman (Institute of Communication Acoustics, Ruhr-University Bochum)*; Rainer Martin (Institute of Communication Acoustics, Ruhr-Universität Bochum)

Poster session 3

Session Chair: Nikolaos Thomos

October 4, 13:30-14:30

Room: 218ABC

- **Relative Altitude Estimation of Infrared Thermal UAV Images using SIFT Features**
 - Shirin Nasr Esfahani (Missouri S&T)*; Jagannathan Sarnagapani (Missouri S&T)
- **Parametric Modeling and Estimation of Photon Registrations for 3D Imaging**
 - Weijian Zhang (Purdue University)*; Hashan K Weerasooriya (Purdue University); Prateek Chennuri (Purdue university); Stanley Chan (Purdue University, USA)
- **Multimodal Deep Learning for Diabetic Retinopathy Grading: Integrating Linear-Radon Sinograms and Retinal Fundus Images**
 - Farida A Mohsen (HBKU)*; Uzair Shah (Hamad Bin Khalifa University); Ashhadul Islam (HBKU); Zubair Shah (Hammad Bin Khalifa University); samir Brahim Belhaouari (Hamad Bin Khalifa University)
- **LAM3D: Leveraging Attention for Monocular 3D Object Detection**
 - Diana A Sas (Technical University of Cluj-Napoca)*; Leandro Di Bella (VUB); Yangxintong Lyu (VUB); Florin Oniga (Technical University of Cluj-Napoca); Adrian Munteanu (Vrije Universiteit Brussel)
- **Color-Guided Flying Pixel Correction in Depth Images**
 - Ekamresh Vasudevan (University of Southern California)*; Shashank Sridhara (University of Southern California); Eduardo Pavez (University of Southern California); Antonio Ortega (University of Southern California); Srinath Kalluri (Oyla Inc); Raghavendra Singh (Oyla Inc.)
- **Lifelong Direct Error-Driven Learning for UAV Altitude Estimation in Different Weather Conditions**
 - Shirin Nasr Esfahani (Missouri S&T)*; Jagannathan Sarnagapani (Missouri S&T)
- **Analysis and Improvement of Rank-Ordered Mean Algorithm in Single-Photon LiDAR**

- William C Yau (University of California, Berkeley)*; Weijian Zhang (Purdue University); Hashan K Weerasooriya (Purdue University); Stanley Chan (Purdue University, USA)
- **Augmented Efficiency: Reducing Memory Footprint and Accelerating Inference for 3D Semantic Segmentation through Hybrid Vision**
 - Aditya Krishnan (University of California, Davis)*; Jayneel Vora (University of California Davis); Prasant Mohapatra (University of South Florida)
- **Robust Real-World Image Dehazing via Knowledge Guided Conditional Diffusion Model Finetuning**
 - Haoran Wei (University of Electronic Science and Technology of China); Qingbo Wu (University of Electronic Science and Technology of China)*; Chenhao Wu (University of Electronic Science and Technology of China); Shuai Chen (University of Electronic Science and Technology of China); Lei Wang (University of Electronic Science and Technology of China); King Ngi Ngan (University of Electronic Science and Technology of China); Fanman Meng (University of Electronic Science and Technology of China); Hongliang Li (University of Electronic Science and Technology of China)
- **Synthetic Local Data Augmentation**
 - Vasyly Chomko (University of Waterloo)*; Yuhao Chen (University of Waterloo); David A Clausi (University of Waterloo); Alexander Wong (University of Waterloo)
- **Selective Enablement of L4S Transport for Latency-Sensitive Multimedia Delivery**
 - Dhananjay Lal (Adeia)*; Christopher C Phillips (Adeia)
- **End-to-End Compression of Complex-valued SAR Images**
 - Paras Maharjan (UMKC)*; Corey Marrs (UMKC); Zhu Li (University of Missouri, Kansas City)
- **Cross-Modal Distortion Approximation for Fast Bit Allocation of Video-Based Point Cloud Compression**
 - Haichen Yang (Shanghai Jiao Tong University)*; Yujie Zhang (Shanghai Jiao Tong University); Qi Yang (Tencent); Ziyu Shan (Shanghai Jiao Tong University); Yiling Xu (Shanghai Jiao Tong University); Yunfeng Guan (Shanghai Jiao Tong University)

Oral session 5: Image and video compression

Session Chair: Amy Reibman

October 4, 14:30-16:10

Room: 214ABCD

- **Decoding Energy Optimization for Video Coding Using Model-Driven Gradient Descent**
 - Christian Herglotz (Friedrich-Alexander-University Erlangen-Nürnberg)*; Matthias Kränzler (Friedrich-Alexander-University Erlangen-Nürnberg); Bide Xu (Friedrich-Alexander University Erlangen-Nürnberg); André Kaup (Friedrich-Alexander-Universität Erlangen-Nürnberg)
- **Efficient Partition Map Prediction via Token Sparsification for Fast VVC Intra Coding**
 - Xinmin Feng (Xinmin Feng)*; Li Li (University of Science and Technology of China); Dong Liu (University of Science and Technology of China); Feng Wu (University of Science and Technology of China)
- **Efficient Video Encoder Autotuning via Offline Bayesian Optimization and Supervised Learning**

- Roberto Azevedo (DisneyResearch|Studios)*; Yuanyi Xue (Disney Entertainment & ESPN Technology); Xuewei Meng (Disney); Wenhao Zhang (Disney Entertainment & ESPN Technology); Scott Labrozzi (Disney Entertainment & ESPN Technology); Christopher Schroers (DisneyResearch|Studios)
- **Efficient Image Compression Using Advanced State Space Models**
 - bouzid arezki (L2TI, Sorbonne paris nord)*; Anissa MOKRAOUI (Laboratoire de Traitement et Transport de l'Information); Fangchen Feng (Universite Sorbonne Paris Nord)
- **Depth Image Compression Using a Hybrid Framework: Quasi-JPEG and Phase Encoding**
 - Jae-Sang Hyun (Yonsei University)*; Wonbeen Oh (Yonsei University)

Oral session 6: Video communication and streaming

Session Chair: Chaker Larabi

October 4, 16:30-17:50

Room: 214ABCD

- **Pattern template manifest for live video streaming**
 - Yongjun Wu (Amazon)*
- **Effects of Delay on Nonverbal Behavior and Interpersonal Coordination in Video Conferencing**
 - Chenyao Diao (TU Ilmenau)*; Stephanie Arévalo Arboleda (Technische Universität Ilmenau); Alexander Raake (TU Ilmenau)
- **Comparative Analysis and Performance Evaluation of Adaptive 360° Video DASH Streaming Solutions**
 - Alireza Mohammadhosseini (New jersey Institute of technology)*; Jacob Chakareski (New jersey Institute of technology)
- **Rate-Adaptive Joint Source Channel Coding Using Deep Block-based Compressed Sensing**
 - Mohammadamin Jarrahi (University of Essex)*; Eirina Bourtsoulatzé (University of Essex); Vahid Abolghasemi (University of Essex)