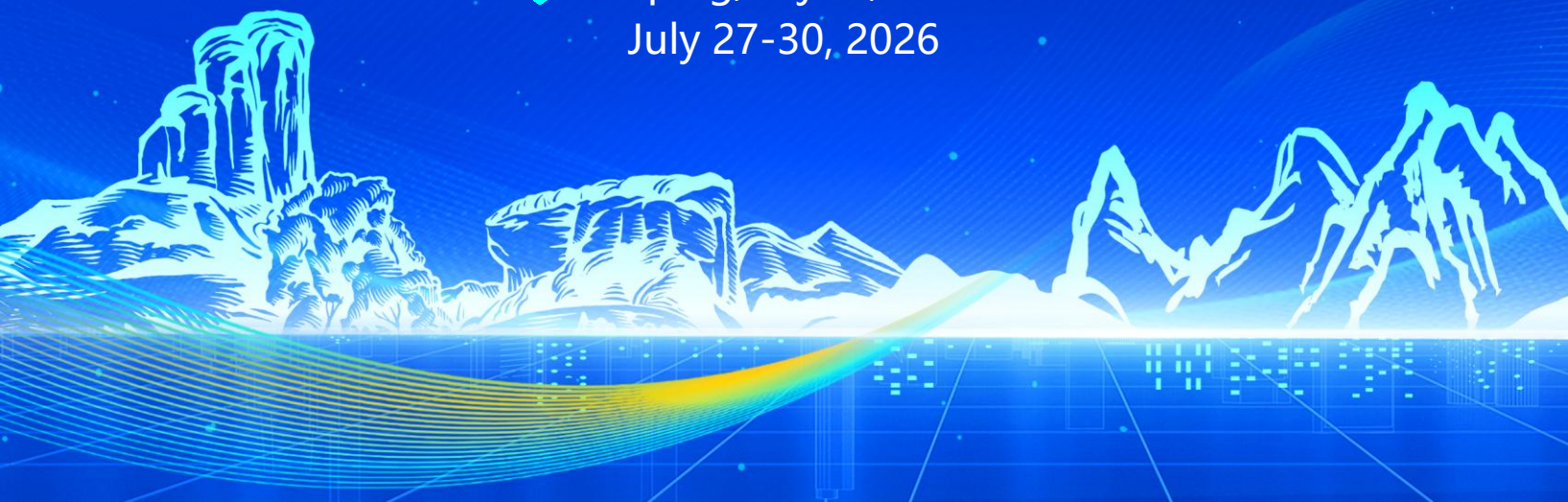




The 2nd International Symposium on Machine Learning and Media Computing (MLMC 2026)

Technical Program

📍 Nanping, Fujian, China
July 27-30, 2026



The 2nd International Symposium on Machine Learning and Media Computing (MLMC 2026)

Organization

Sponsors:

Institute of Electrical and Electronics Engineers (IEEE)
IEEE Systems, Man, and Cybernetics Society

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Sam Kwong, Xizhao Wang

Honorary Chairs:

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Special Sessions Chairs:

Long Xu, Hui Yuan, Chongyi Li

Awards and Innovation Chairs:

Yo-Sung Ho, Yun Zhang

Finance and Registration Chairs:

Weiling Chen, Shanshan Du

Local Organization Chairs:

Yiwen Xu, Liqun Lin

General Chairs:

Tiesong Zhao, Hanli Wang, Ran Wang

Technical Program Chairs:

Shiqi Wang, Wei Gao, Runmin Cong, Yuheng Jia

Tutorial Chairs:

Xinfeng Zhang, Guopu Zhu, Keke Zhang

Publication Chairs:

Zhaoqing Pan, Xu Wang

Publicity Chairs:

Ke Li, Pengjie Tang, Aiping Huang

Conference Contact

Yiwen Xu: 13599050331

Liqun Lin: 18960919459

Shihui Huang (Event Coordinator): 15759652358

Lijuan Zhang (Event Coordinator): 17805986031

Note: Delegates arriving after **8:00 PM** on **July 27** are kindly requested to check-in again at the main venue entrance on **July 28** to collect their conference materials.

Meeting Registration

To facilitate a smooth check-in process, the organizing committee has arranged dedicated staff and volunteers to assist delegates with registration, conference material distribution, hotel check-in, and other related services.

Date: July 27-30, 2026

Venue: Wuyishan Taiwei Hotel

Wuyishan National Tourism Resort, Wuyishan, Nanping, Fujian, China



Traffic Information

- 1 ✈ Wuyishan Airport | 6.9 km
- 2 🚆 Wuyishan Railway Station | 10.3 km
- 3 🚆 Wuyishan North Railway Station | 16.2 km
- 4 🚆 Nanyangshi Railway Station | 29.0 km

Accommodation and Meal Arrangements

Accommodation Venue:

Wuyishan Taiwei Hotel

Wuyishan National Tourism Resort, Wuyishan, Nanping, Fujian, China

Dining arrangements:

Breakfast: Served at the hotel restaurant (room key required).

Lunch & dinner: Provided by the organizing committee.

MLMC 2026 Technical Program

July 27, 2026 (Monday)		
14:00-20:00	Registration Conference Lobby, Wuyishan Taiwei Hotel (武夷山太伟酒店大厅)	
18:30-20:30	Welcome Reception	
July 28, 2026 (Tuesday)		
08:30-8:45	Arrival & Seating	International Conference Hall, 3F 三楼国际会议厅
08:45-09:00	Opening Ceremony + Group Photo Welcome address by conference chairs	
09:00 - 09:40	Title: From Perception to Principles: Quality Assessment for AI-Generated Visual Contents Keynote speaker: Chang Wen Chen Host: Hanli Wang	
09:40 - 10:20	Title: Physics-Informed Generative Image Restoration: From Data to Models Keynote speaker: Chia-Wen Lin Host: Tiesong Zhao	
10:20-10:40	Coffee Break	
10:40 - 11:20	Title: Human Sustainability in AI Scene: Toward QoAI Experience Keynote speaker: Patrick Le Callet Host: Wei Gao	International Conference Hall, 3F 三楼国际会议厅
11:20 - 12:00	Title: Robust Multimodal Visual Cognition: From Precise Perception Engines to Interactive Reflective Agents Keynote speaker: Zechao Li Host: Ran Wang	
12:00 - 14:00	Lunch Break	

14:00 -15:30	Oral Session 1: 3D Vision & Generation (9 papers, 10 min each) Session Chairs: Xuelin Shen and Jielian Lin	Conference Room 3, 3F 三楼三号会议室
15:30 -15:50	Coffee Break	
15:50 -17:20	Oral Session 2: ML Theory & Applications (9 papers, 10 min each) Session Chairs: Zhongyuan Guo and Liqun Lin	Conference Room 3, 3F 三楼三号会议室
08:30 - 17:20	Poster Session (All day, parallel with other sessions) Session Chairs: Wenhui Wu and Hua Li Corridor, 3F (outside the International Conference Hall) 三楼国际会议厅外走廊	
18:00 - 20:00	Dinner	
July 29, 2026 (Wednesday)		
08:30 - 10:00	Oral Session 3: Image/Video Proc. & Enhancement (9 papers, 10 min each) Session Chairs: Yue Liu and Lingyu Zhu	Conference Room 3, 3F 三楼三号会议室
10:00 -10:20	Coffee Break	
10:20 -11:50	Oral Session 4: Visual Recognition & Understanding (9 papers, 10 min each) Session Chairs: Yifan Huang and Nanfeng Jiang	Conference Room 3, 3F 三楼三号会议室
12:00 – 14:00	Lunch Break	
14:00 – 17:30	Internal Meeting	
19:00 – 21:00	Banquet	
July 30, 2026 (Thursday)		
All day	Departure / Check-out	

Keynote Speaker



Chang Wen Chen (陈长汶)

Chair Professor of Visual Computing, Interim Dean of the Faculty of Computer and Mathematical Sciences, The Hong Kong Polytechnic University, IEEE Fellow

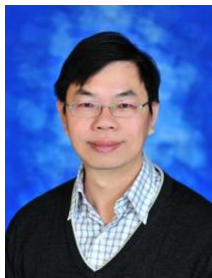


From Perception to Principles: Quality Assessment for AI-Generated Visual Contents

Abstract: The rapid advancement of generative AI (GenAI) has transformed the creation of images and videos, enabling unprecedented levels of visual realism, diversity, and controllability. Yet one pressing issue is in how to properly assess the quality of AI-generated visual content as such new types of contents poses significant challenges that extend well beyond the scope of traditional image and video quality assessment. Whereas conventional approaches have largely focused on perceptual distortions such as blur, noise, compression artifacts, and transmission degradation, assessing generated contents calls for a broader spectrum of evaluation framework—one that have to consider semantic fidelity, temporal coherence, physical plausibility, aesthetic quality, and exact alignment with human expectations and prompts. This keynote will examine the transition from traditional perception-driven quality assessment to a new paradigm for AI-generated visual content, in which human perceptual experience needs to be integrated with principled understanding of semantics, motion, and the physical world. We shall highlight some recent efforts toward interpretable and comprehensive evaluation frameworks that assess not only visual fidelity, but also motion realism, multidimensional quality, relational semantic consistency, and physical plausibility. This talk will also discuss potential future directions for next-generation GenAI quality assessment, emphasizing the critical intersection of perception and principles as the foundation for designing trustworthy generative visual systems.

Biography: Prof. Chang Wen Chen is currently Chair Professor of Visual Computing at The Hong Kong Polytechnic University. Before his current position, he served as Dean of the School of Science and Engineering at The Chinese University of Hong Kong, Shenzhen, from 2017 to 2020, and concurrently as Deputy Director at Peng Cheng Laboratory from 2018 to 2021. Previously, he was an Empire Innovation Professor at the State University of New York at Buffalo (SUNY) from 2008 to 2021 and the Allan Henry Endowed Chair Professor at the Florida Institute of Technology from 2003 to 2007. He received his BS degree from the University of Science and Technology of China in 1983, an MS degree from the University of Southern California in 1986, and his PhD degree from the University of Illinois at Urbana-Champaign (UIUC) in 1992. He is currently Deputy Editor-in-Chief for IEEE Trans. Image Processing. He has also served as Editor-in-Chief for IEEE Trans. Multimedia (2014-2016) and for IEEE Trans. Circuits and Systems for Video Technology (2006-2009). Over several decades of professional career, he has received many professional achievement awards, including eleven (11) Best Paper Awards or Best Student Paper Awards, the prestigious Alexander von Humboldt Award in 2010, the SUNY Chancellor's Award for Excellence in Scholarship and Creative Activities in 2016, the UIUC ECE Distinguished Alumni Award in 2019, and the ACM SIGMM Outstanding Technical Achievement Award in 2024. He is an IEEE Fellow, a SPIE Fellow, and a Member of Academia Europaea.

Keynote Speaker



Chia-Wen Lin (林嘉文)

Distinguished Professor, Department of Electrical Engineering,
National Tsing Hua University, Deputy Director of NTHU AI Research
Center, IEEE Fellow



Physics-Informed Generative Image Restoration: From Data to Models

Abstract: Images captured in real-world environments often suffer from diverse degradation patterns governed by underlying physical processes, such as motion blur, haze, rain, and low illumination, which lead to undesired contrast loss and appearance distortions. With the rapid development of deep generative image models, numerous image restoration methods have been proposed to effectively alleviate these degradations. As most deep restoration approaches rely on supervised learning, their performance strongly depends on the diversity and representativeness of the training data. However, for many real-world degradations—such as rain, haze, and motion blur—collecting paired degraded and clean images is expensive and often impractical, severely limiting the coverage of available training datasets. These data acquisition challenges restrict the effectiveness and generalization ability of existing restoration models. In this talk, we will present how physics-based models can be leveraged both to enrich training datasets with realistic degradation distributions and to be integrated into diffusion-based restoration frameworks. By incorporating physics-informed priors, the performance of generative restoration models can be substantially enhanced. Representative results will be demonstrated on image dehazing and deblurring tasks.

Biography: Prof. Chia-Wen Lin is currently a Distinguished Professor with the Department of Electrical Engineering, National Tsing Hua University (NTHU), Taiwan. He also serves as Deputy Director of NTHU AI Research Center. His research interests include image/video processing, computer vision, and video networking. Dr. Lin is an IEEE Fellow, and has served on IEEE Circuits and Systems Society (CASS) Fellow Evaluation Committee (2021–2023), and CASS BoG members-at-Large (2022–2024). He was Steering Committee Chair of IEEE ICME (2020–2021), IEEE CASS Distinguished Lecturer (2018–2019), APSIPA Distinguished Lecturer (2023–2024), and President of the Chinese Image Processing and Pattern Recognition (IPPR) Association, Taiwan (2019–2020). He is currently Associate Editor-in-Chief for IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), and has served as Associate Editor of IEEE Transactions on Image Processing, IEEE Transactions on Multimedia, IEEE TCSVT, and IEEE Multimedia. He served as TPC Chair of IEEE ICME in 2010, IEEE ICIP in 2019, and PCS in 2022, and the Conference Chair of IEEE VCIP in 2018 and PCS in 2024.

Keynote Speaker



Patrick Le Callet

Full Professor, Polytech Nantes / Nantes Université, Senior Member of the Institut Universitaire de France, IEEE Fellow



Human Sustainability in AI Scene: Toward QoAI Experience

Abstract: This talk examines how AI is progressively challenging human sustainability. We use Quality of Experience (QoE) as an interpretative lens to highlight new paradigm in AI evaluation. Facing aging society, AI can be seen as technological solutions. In that context, I first trace the evolution from imitation learning to foundation models, and then to world models and embodied AI, where human behavior is increasingly abstracted into data, patterns, and simulated environments. Beyond human sustainability in that context, I also illustrate what QoE sciences can bring for Machine Experience. Second, I present the emergence of a token-based cognitive economy, and question its resources debt and possible QoE metrics to mitigate it. Then I present the notion of AI psychological debt. AI does not only optimize tasks, it reconfigures the structure of human experience and cognitive participation. Building on this, I propose QoAI (Quality of AI Experience) as an extended framework for AI systems evaluation. QoAI aims to assess not only efficiency and accuracy, but also human agency, cognitive effort, dependency formation, attentional integrity, and long-term cognitive resilience. The QoAI Experience Dashboard operationalizes these dimensions to make visible the hidden experiential costs of AI systems. Ultimately, the question is no longer only how well AI performs, but what kind of human cognition it sustains or erodes over time.

Biography: Prof. Patrick Le Callet is Full Professor at Polytech Nantes / Nantes Université and Senior Member of the Institut Universitaire de France. He leads interdisciplinary research on human perception, media processing, and cognitive computing. His work focuses on sustainable visual communication, quality of experience, and cognitive computing. Former scientific director of the "Ouest Industries Créatives" cluster, he has authored over 500 publications and 16 patents. Active in international editorial boards and standardization bodies (VQEG, IEEE-SA), he is corecipient of a Technology & Engineering Emmy Award in 2020 for his contributions to perceptual metrics in video encoding.

Keynote Speaker



Zechao Li (李泽超)

Professor and Dean, School of Computer Science and Engineering / School of Artificial Intelligence / School of Software, Nanjing University of Science and Technology



Robust Multimodal Visual Cognition: From Precise Perception Engines to Interactive Reflective Agents

Abstract: Building robust multimodal AI hinges on elevating static low-level perception into dynamic reasoning systems equipped with structured cognition and self-reflection. This report summarizes our series of research along this trajectory. First, to build a precise visual perception engine, we propose CTNet to resolve pixel-level ambiguity in complex scenes. Furthermore, through Singular Value Fine-tuning (SVF) and the VRP-SAM framework, we achieve open-world generalization with minimal parameter cost and visual reference prompts, establishing a powerful "visual specialist" foundation. However, Multimodal Large Language Models (MLLMs) frequently suffer from hallucinations due to the lack of precise descriptions regarding fine-grained visual attributes and object relations. To address this, we introduce the EDC framework, which leverages the aforementioned visual specialists to finely extract target attributes and transform them into high-quality image-text descriptions, significantly enhancing the visual cognition of MLLMs. Finally, targeting the pain point that large models often reason de novo and repeatedly make the same mistakes, we develop ViLoMem, a dual-stream memory framework that separately encodes logical reasoning errors and visual perception traps. This research achieves a technical leap from precise perception engines to the elimination of multimodal cognitive hallucinations, ultimately evolving into interactive reflective agents equipped with semantic memory and continual learning capabilities.

Biography: Prof. Zechao Li is a Professor and the Dean of the School of Computer Science and Engineering / School of Artificial Intelligence / School of Software at Nanjing University of Science and Technology. His research interests primarily focus on multimodal intelligent analysis and computer vision. He has led several prestigious national grants, including the National Science Fund for Distinguished Young Scholars, the National Science and Technology Major Project for New Generation AI, and Key Projects of the NSFC Joint Fund. Selected as a Young Top-Notch Talent of the National "Ten Thousand Talents Program," he has published over 60 papers in top-tier journals and conferences, such as IEEE TPAMI, IJCV, and CCF Rank-A venues. His major accolades include the First Prize of the Jiangsu Provincial Science and Technology Progress Award (2024, 1st contributor), the First Prize of the Natural Science Award from the Chinese Institute of Electronics (2022, 2nd contributor), and the First Prizes of the Jiangsu Provincial Science and Technology Award (2020 as 2nd contributor, and 2017 as 3rd contributor). Additionally, he received the Best Paper Awards at ACM MM Asia in both 2020 and 2024. Professor Li currently serves as an Associate Editor for renowned journals including IEEE TPAMI, IEEE TCSVT, IEEE TMM, and Pattern Recognition (PR), and previously served on the editorial boards of IEEE TNNLS and Information Sciences.

Detail of Oral & Poster Sessions

Oral Session 1: 3D Vision & Generation (14:00 - 15:30, July 28, 2026)

Room: Conference Room 3, 3F (三楼三号会议室)

Session Chairs: Xuelin Shen and Jieliang Lin

14:00-14:10	ID 31	Sparse View 4D Semantic Gaussian Learning with Dynamic Modeling and Sparsity Aware Refinement
		Authors Jingming He, Xiangrui Zeng, Chongyi Li
14:10-14:20	ID 8	High-Fidelity Text-Controllable 3D Digital Human Generation via 3D Gaussian Splatting
		Authors Zhaoqi Su, Xinyan Lin, Shihai Chen, Xiaoqiang Lu
14:20-14:30	ID 38	ClearSplat: Feed-Forward Underwater 3D Reconstruction via Physics-Restored Views
		Authors Yujun Li, Jieyu Yuan, Kun Xu, Chunle Guo, Chongyi Li
14:30-14:40	ID 46	PI-Splatting: Perceptual Importance-guided Compression for Efficient Gaussian Splatting
		Authors Hongbi Zhou, Jiaming Zhang, Zhangkai Ni
14:40-14:50	ID 48	DFTC: Differentiable Feature Topology Compression for Efficient 3D-LLMs
		Authors Wei Liu, Hanli Wang
14:50-15:00	ID 55	Geometry-Aware Transformer Network for Point Cloud Attribute Upsampling
		Authors Siyan Wu, Yun Zhang, Lewen Fan
15:00-15:10	ID 83	Semantic-Aware Coarse-to-Fine 3D Part Assembly via Multi-Modal Priors
		Authors Puan Lin, Sheng Zhang, Li Wang, Xintong Chen, Shuyi Jiang, Hanli Wang
15:10-15:20	ID 85	Prior-Infused 3D Gaussian Splatting for Robust Sparse-View Reconstruction
		Authors Huixin Lan, Xinfeng Zhang, Yue Liu, Yichen Zhou
15:20-15:30	ID 60	IMCAD: An Industrial-Grade Multimodal CAD Dataset for Aircraft Design and Manufacturing
		Authors Li Wang, Sheng Zhang, Hanli Wang, Yihang Xu, Xintong Chen

Oral Session 2: ML Theory & Applications (15:50 - 17:20, July 28, 2026)**Room:** Conference Room 3, 3F (三楼三号会议室)**Session Chairs:** Zhongyuan Guo and Liqun Lin

15:50-16:00	ID 79	An initial study on comparison of generalization error bounds between two losses
		Authors Ping Zhang, Xizhao Wang, Yue Jing
16:00-16:10	ID 34	Procrustes Projection Alignment for Multi-View Graph Representation and Reusable ML Models
		Authors Zheyi Qin, Anura Jayasumana, Randy Paffenroth
16:10-16:20	ID 67	SAGENet: Sub-cluster Aggregation Guided Enhancement for Imbalanced Attributed Graph Clustering
		Authors Ke Xia, Zhixin Li, Yuheng Jia
16:20-16:30	ID 54	Adversarially Robust Self-Distillation
		Authors Rihao Li, Ran Wang, Meng Hu
16:30-16:40	ID 29	Explicit Temporal and Spatial Modeling for Multivariate Time Series Anomaly Detection: A Survey
		Authors Yinsong Xu, Yuhuan Liu, Yulong Ding, Shuang-Hua Yang
16:40-16:50	ID 82	LLM-Empowered Intelligent Data Querying: A Unified Metadata Approach
		Author Jinzhu Zhang, Zheng Ma, Zhipeng Li, Zhenyuan Gao, Xianjie Shen, Yong Liao
16:50-17:00	ID 81	Blockchain-Based Copyright Accountability with Encrypted Watermark Commitments
		Authors Zhanzhuo Chen, Baijun Chen, Wenbo Yan, Tingyu Li, Yankai Xie, Shunhai Tang, Nenghai Yu
17:00-17:10	ID 19	Methods and Practices for Developing Key Modules in AI-Assisted Gaming
		Author Ke Xiong, Yueqiang Zhang
17:10-17:20	ID 30	A Survey of Virtual Try-on for Clothing and Accessories
		Authors Xiaona Li, Xihua Sheng

Oral Session 3: Image/Video Proc. & Enhancement (8:30 - 10:00, July 29, 2026)

Room: Conference Room 3, 3F (三楼三号会议室)

Session Chairs: Yue Liu and Lingyu Zhu

08:30-8:40	ID 61	Dual-Level Adaptive RDO for Learned Wavelet Video Coding
		Authors Yongkang Zheng, Xinyu Yan, Haiyang Qi, Long Xu
08:40-8:50	ID 32	Incorporating DINO Priors into Flow Matching for Low-Light Image Enhancement
		Authors Xiangrui Zeng, Lingyu Zhu, Baoliang Chen, Jingming He
08:50-9:00	ID 78	M ² -SSM: Mask-Modulated Mamba-based Quality Enhancement for JPEG Compressed Screen Content Image
		Authors Tuo Li, Chaofei Li, Jingwen Yang, Wusi Sang, Hui Yuan
09:00-9:10	ID 64	M2DuSR: Mamba-Based Multi-Domain Fusion for Dual-Camera Super-Resolution
		Authors Yangfan Xiang, Shenghong Feng, Xudan Zheng, Liuxiang Qiu
09:10-9:20	ID 69	On the Effectiveness of Neural Network Super-Resolution for Video Coding
		Authors Xingyu Yan, Haiyang Qi, Yongkang Zheng, Long Xu
09:20-9:30	ID 50	Knowledge-Based SAR Image Quality Assessment for Machine Vision
		Authors Zhenyu Fang, Peiyuan Wu, Ruijue Su, Dongjie Chen, Weiling Chen
09:30-9:40	ID 57	No-Reference Image Quality Assessment via Projective Degradation Subspaces
		Authors Xiaoqi Wang, Yun Zhang
09:40-9:50	ID 62	HAVIQ: QoE Evaluation in Haptic-Audio-Visual Environment
		Authors Ying Fang, Qiang Wang, Xiao Yuan, Tiesong Zhao
09:50-10:00	ID 71	RTEC: A Real-Time Estimation-Based Coding Algorithm for Haptic Signals
		Authors Yujing Wang, Ying Fang, Hong'an Wei

Oral Session 4: Visual Recognition & Understanding (10:20 - 11:50, July 29, 2026)
Room: Conference Room 3, 3F (三楼三号会议室)
Session Chairs: Yifan Huang and Nanfeng Jiang

10:20-10:30	ID 24	Learning Hybrid Mixture of Experts Network and Frequency-aware Transformer for Underwater Salient Object Detection
		Author Chao Zeng, Yao Duan, Guojun Liu, Nanfeng Jiang
10:30-10:40	ID 56	Deep Learning-based Overshooting Top Detections from Satellite Imagery: Database and Model
		Authors Junle Liu, Yun Zhang, Sam Kwong
10:40-10:50	ID 59	ADSN: Boundary-Aware Asymmetric Dual-Stream Network for Weakly Supervised Urban Scene Segmentation
		Author Yizhuo Huang, Jingjing Cao, Zhou Wu, Rui Xu, Hao Tian, Xiongpeng Zhou
10:50-11:00	ID 75	USARNET: Underwater Salient Instance Segmentation via Scattering-Aware Asymmetric Re-parameterization
		Authors Hua Li, Yongjie Weng, Zhiyuan Li, Runmin Cong, Chongyi Li, Weidong Zhang
11:00-11:10	ID 39	BalFusDet: Balancing Fusion and Detection via Adaptive Loss Optimization
		Authors Zhipeng Su, Chenyue Qiu, Ang Zhang
11:10-11:20	ID 49	Frequency-semantic Joint Calibration for Text-guided Medical Image Segmentation
		Authors Jiaqi Mo, Shanshan Du, Ran Chen, Hanli Wang
11:20-11:30	ID 84	AFT-NET: Adaptive Frequency-Texture Synergy Network for Lightweight Small Object Detection
		Authors Weian Wang, Shuaixiong Hui, Jing Yang, Hanli Wang
11:30-11:40	ID 65	Monitoring Building Aging and Damage with Diffusion Transformers: A Survey
		Authors Hongyu Zhang, Wangjiale Xu, Peng Zhang, Zongxi Li, Yuxuan Luo, Haifeng Guo
11:40-11:50	ID 25	Visual-Tactile Datasets for Multimodal Learning: A Systematic Review and Task-Driven Analysis
		Authors Rouqi Zhang, Liwen Chen, Chenxin Zhuang, Ruohan Chen, Ying Fang, Tiesong Zhao

Poster Session (8:30 - 17:20, July 28, 2026)

Place: Corridor, 3F (outside the International Conference Hall), (三楼国际会议厅外走廊)

Session Chairs: Wenhui Wu and Hua Li

BCE vs. CE in Deep Feature Learning - ICML 2025

 **Authors:** Qiufu Li, Huibin Xiao, Linlin Shen

FLNM-Net: A Frequency-Adaptive and Luminance-Noise Aware Mask - PR 2026

 **Authors:** Chaojie Fan, Shaowei Gu, Kaichen Ouyang, Dedai Wei, Yong Peng

Empowering Dino Representations for Underwater Instance Segmentation via Aligner and Prompter
- AAAI 2026

 **Authors:** Zhiyang Chen, Chen Zhang, Hao Fang, Runmin Cong

Mitigating Perception Bias: A Training-Free Approach to Enhance LMM for Image Quality Assessment - AAAI 2026

 **Authors:** Baoliang Chen, Siyi Pan, Dongxu Wu, Liang Xie, Xiangjie Sui, Liangyu Zhu, Hanwei Zhu

Structural Similarity in Deep Features: Unified Image Quality Assessment Robust to Geometrically Disparate Reference - TPAMI 2026

 **Authors:** Keke Zhang, Weiling Chen, Tiesong Zhao, Zhou Wang

HUGS-Net: A Lightweight and Unified Network for Adverse Weather Image Denoising - TMM 2025

 **Authors:** Ting Zhang, Runjie Wang, Yuzhen Niu, Zuoyong Li, Tiesong Zhao

Efficient Semantic Codec for Real-time Vibrotactile Transmission - ACMMM 2025

 **Authors:** Runjie Wang, Kemi Chen, Shuijie Li, Mingkai Chen, Tiesong Zhao

AFH-Net: An Adaptive Feature Harmonization Network for Document Image De-warping - PR 2026

 **Authors:** Xinyue Zhou, Yuqi Liu, Nanfeng Jiang, Wang Man, Xuyao Zhang,
Shunzhou Wang, Dahan Wang

UGAE: Unified Geometry and Attribute Enhancement for G-PCC Compressed Point Clouds - TIP 2026

 **Authors:** Pan Zhao, Hui Yuan, Chongzhen Tian, Tian Guo, Raouf Hamzaoui, Zhigeng Pan

Keep It on a Leash: Controllable Pseudo-label Generation Towards Realistic Long-Tailed Semi-Supervised Learning - NeurIPS 2025

 **Authors:** Yaxin Hou, Bo Han, Yuheng Jia, Hui Liu, Junhui Hou

Multimodal Image Representation Learning With Limited Visual-Tactile Data - TIP 2026

 **Authors:** Liuxiang Qiu, Hui Da, Wenxi Liu, Yuzhen Niu, Hanli Wang, Tiesong Zhao

3D-UIR: 3D Gaussian for Underwater 3D Scene Reconstruction via Physics-Based Appearance-Medium Decoupling - TIP 2026

 **Authors:** Jieyu Yuan, Yujun Li, Yuanlin Zhang, Chunle Guo, Xiongxin Tang, Ruixing Wang, Chongyi Li

W2WDiff: Generalizing Underwater Diffusion Model via Unsupervised Underwater Conversion - TGRS 2025

 **Authors:** Yuanlin Zhang, Jieyu Yuan, Xiao Chen, Xiongxin Tang, Qiao Chen, Yi Wang, Chongyi Li

Calibrated Disambiguation for Partial Multi-label Learning - AAAI 2025

 **Authors:** Zhuoming Li, Yuheng Jia, Mi Yu, Zicong Miao

Graph-based Clustering Revisited: A Relaxation of Kernel k -Means Perspective - JMLR 2026

 **Authors:** Wenlong Lyu, Yuheng Jia, Hui Liu, Junhui Hou

DBGroup: Dual-Branch Point Grouping for Weakly Supervised 3D Semantic Instance Segmentation - AAAI 2026

 **Authors:** Xuexun Liu, Xiaoxu Xu, Qiudan Zhang, Lin Ma, Xu Wang

SO(3)-Equivariant ViT-Adapter for Data-Efficient Zero-Shot Sim-to-Real Indoor Panoramic Depth Estimation - CVPR 2026

 **Authors:** Ziyang He, Qiudan Zhang, Lin Ma, Xu Wang

Evaluating Visual Quality of Autostereoscopic 3D Displays via a Multimodal Parameter Perception Network - ACMMM 2025

 **Authors:** Liqian Zhang, Feng Yuan, Haoran Xie, Fu Lee Wang, Zhaoqing Pan

WaveCL: Wavelet Calibration Learning for Referring Video Object Segmentation - ACMMM 2025

 **Authors:** Ran Chen, Taiyi Su, Hanli Wang

MGMapNet: Multi-Granularity Representation Learning for End-to-End Vectorized HD Map Construction - ICLR 2025

 **Authors:** Jing Yang, Minyue Jiang, Sen Yang, Xiao Tan, Yingying Li, Errui Ding, Hanli Wang, Jingdong Wang

Hugging Visual Prompt and Segmentation Tokens: Consistency Learning for Fine-Grained Visual Understanding in MLLMs - CVPR 2026

 **Authors:** Jing Yang, Sen Yang, Boqiang Duan, Ming Dai, Wei Zhang, Xiao Tan, Kunbin Chen, Wei He, Jingdong Wang, Hanli Wang

D2C-SID: A Divergence to Convergence Strategy for Sonar Image Denoising - TMM 2026

 **Authors:** Weiling Chen, Fengquan Lan, Boqin Cai, Mingjie Wang, Dongjie Chen, Tiesong Zhao

A Lightweight and Unified Framework for Underwater Image Utility Evaluation - TMM 2026

 **Authors:** Weiling Chen, Lishi Xu, Honggang Liao, Nanfeng Jiang, Tiesong Zhao

ColorAssist: Perception-Based Recoloring for Color Vision Deficiency Compensation -TIP 2025

 **Authors:** Liqun Lin, Shangxi Xie, Yanting Wang, Bolin Chen, Ying Xue, Xiaohai Zhuang, Tiesong Zhao

Oral Presenter Guidelines

- a. Please arrive at the presentation room **5 minutes before the Session**.
- b. A computer will be provided; Bring your presentation on a **USB drive**.
- c. Each paper is allotted **10 minutes** (including Q&A).

Poster Presenter Guidelines

- a. Arrive at the poster area **5 minutes** before the Session.
- b. Poster board provided. Size: **1:2.5** (recommended: 80 cm (width) × 200 cm (height)).
- c. Displayed **throughout July 28** (parallel with other sessions).

For assistance, please contact the session chairs.

Note:



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