Contents

Welcome Word from the Chair

Dear members of the ACML community, esteemed guests, attendees, and sponsoring partners,

It is my distinct honor and profound pleasure, as your General Chair, to warmly welcome you all to the 17th Asian Conference on Machine Learning (ACML 2025), held from December 09–12, 2025 in the vibrant heart of Taipei, Taiwan.

ACML has blossomed into one of the premier international gatherings in machine learning and related fields across Asia and beyond. We are proud to provide this crucial and vibrant stage for sharing cutting-edge breakthroughs in theory, innovative methods, and real-world applications.

This year, we are especially proud to welcome a diverse community spanning academia, industry, and various multidisciplinary domains. With contributions ranging from fundamental learning theory, large language models, and fairness & privacy, to domain-specific applications in areas such as healthcare, finance, and social good, ACML 2025 is positioned to both push the boundaries of core machine learning research and promote tangible, real-world impact.

Over the next four days, you will have the opportunity to:

- Engaging keynotes delivered by leading global scholars and industry experts, setting the intellectual agenda for the year ahead.
- A rich program of oral and poster presentations, rigorously selected to showcase the most innovative work from around the world.
- Specialized workshops and tutorials offering deep, practical dives into the most challenging and emerging topics.
- Ample opportunities for networking, collaboration, and community building—connecting seasoned researchers, industry pioneers, and promising newcomers alike.

As General Chair, I encourage you to do more than simply present your work. Please reach out, ask critical questions, and challenge conventional assumptions. ACML has always thrived because of our commitment to open, honest, and spirited intellectual exchange. Let us also remember that machine learning today stands powerfully at the intersection of technical rigor and societal responsibility. We must use this forum to explore not only what our machines *can* learn, but what they *should* learn, and how our scientific advances can truly benefit humanity.

Finally, I want to express my deepest and most sincere gratitude to all of you—our authors, diligent reviewers, the dedicated organization team, our generous sponsors, and tireless volunteers—for your unwavering support and dedication. Without your effort, passion, and collaborative spirit, ACML simply would not be possible.

Thank you for joining us. I truly hope you find ACML 2025 inspiring, fruitful, and memorable. Welcome, and enjoy the conference!

Sincerely,

Shou-De Lin

General Chair, ACML 2025

About ACML 2025

Conference Date & Venue

December 09-11, 2025. | 2F, Hua Nan Bank International Convention Center

Workshop Date & Venue

December 12, 2025 | 5F, Humble House Taipei

Industrial Panel Date & Venue

Time: 17:00-18:30 December 10, 2025, | 3F Ballroom, Silk Palace

Social Program

- Welcome Reception
  Time: 18:00-20:00 December 8, 2025 | 2F, Hua Nan Bank International Convention Center
- Trip to National Palace Museum |
  Time: 14:15-17:00 December 10, 2025 | National Palace Museum
- Banquet
  Time: 18:30-20:30 December 10, 2025 | 3F Ballroom, Silk Palace

Organizer:

台灣大學資訊網路與多媒體研究所
Graduate Institute of Networking and Multimedia, National Taiwan University

Graduate Institute of Networking and Multimedia, National Taiwan University

Co-Organizers

AInTU 國立臺灣大學人工智慧研究中心
國立臺灣大學人工智慧技術暨全福健康照護聯合研究中心
NTU JOINT RESEARCH CENTER FOR AI TECHNOLOGY AND ALL VISTA HEALTHCARE

中央研究院 資訊科學研究所
Institute of Information Science, Academia Sinica

中華民國人工智慧學會
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Department of Information and Tourism

Program at a Glance

<table>
<tr><th>Time</th><th>Dec. 8th</th><th colspan="3">Dec. 9th</th><th colspan="3">Dec. 10th</th><th colspan="3">Dec. 11th</th><th colspan="3">Dec. 12th</th></tr>
<tr><th>Venue</th><th colspan="10">HNBK International Convention Center</th><th colspan="3">5F, Humble House Taipei</th></tr>
<tr><td>08:00-09:00</td><td rowspan="15"></td><td colspan="9" rowspan="2">Registration</td><td colspan="3">Registration</td></tr>
<tr><td>08:50-09:00</td><td colspan="3">Opening Ceremony</td><td colspan="3" rowspan="2"></td><td colspan="3" rowspan="2"></td><td>Cypress</td><td>Maple</td><td>Sunflower</td></tr>
<tr><td>09:00-09:30</td><td colspan="3" rowspan="2">Keynote Speech #1
Prof. Craig Knoblock</td><td colspan="3" rowspan="2">Keynote Speech #2
Prof. Kun Zhang</td><td colspan="3" rowspan="2">Keynote Speech #3
Dr. Aja Huang</td><td rowspan="2">Tutorial 1: Robust and Trustworthy LLM</td><td rowspan="2">Workshop 1: Neuro AI</td><td rowspan="2">Workshop 3: Medical AI</td></tr>
<tr><td>09:30–10:00</td></tr>
<tr><td>10:00-10:30</td><td colspan="12">Coffee Break</td></tr>
<tr><td>10:30-12:00</td><td>201</td><td>Main</td><td>202</td><td>201</td><td>Main</td><td>202</td><td>201</td><td>202</td><td>Main</td><td rowspan="2">Tutorial 1: Robust and Trustworthy LLM</td><td rowspan="3">Workshop 1: Neuro AI</td><td rowspan="3">Workshop 3: Medical AI</td></tr>
<tr><td>11:00-12:00</td><td>Oral Session #1</td><td>Oral Session #2</td><td>Oral Session #3</td><td>Oral Session #10</td><td>Oral Session #11</td><td>Oral Session #12</td><td>Oral Session #13</td><td>Oral Session #14</td><td>Oral Session #15</td></tr>
<tr><td>12:00-12:30</td><td colspan="3" rowspan="2">Lunch Break
13:00-14:30
Poster Session #1 @203</td><td colspan="3" rowspan="2">Lunch Break
12:30-14:00
Poster Session #2 @203</td><td colspan="3" rowspan="2">Lunch Break
12:30-14:00
Poster Session #3 @203</td><td>Lunch Break</td></tr>
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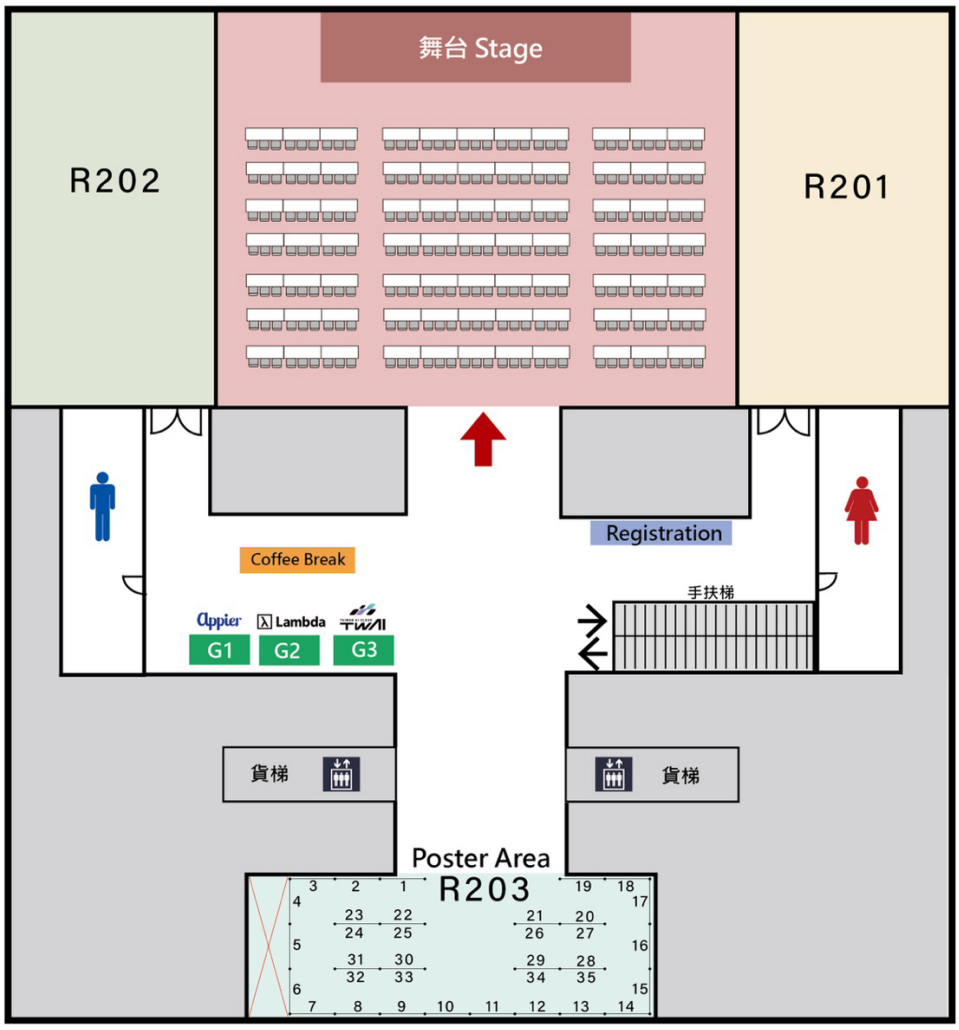
<tr><td>14:00-14:30</td><td colspan="3" rowspan="3"></td><td colspan="3" rowspan="5">14:15 - 17:00
Trip to National Palace Museum</td><td>201</td><td>Main</td><td>202</td><td rowspan="2">Tutorial 2: ML for Natural Science</td><td rowspan="3">Workshop 2: Trustworthy AI</td><td rowspan="3">Workshop 3: Medical AI</td></tr>
<tr><td>14:30-15:30</td><td>Main</td><td>201</td><td>202</td><td>Oral Session #16</td><td>Oral Session #17</td><td>Oral Session #18</td></tr>
<tr><td>15:30-16:00</td><td>Oral Session # 4</td><td>Oral Session #5</td><td>Oral Session #6</td><td colspan="3">15:30-15:40
Closing Ceremony</td><td colspan="3">Coffee Break</td></tr>
<tr><td>16:00-17:00</td><td colspan="3">Coffee Break</td><td>Main</td><td>201</td><td>202</td><td colspan="3" rowspan="3"></td><td>Tutorial 2: ML for Natural Science</td><td>Workshop 2: Trustworthy AI</td><td>Workshop 3: Medical AI</td></tr>
<tr><td>17:00-18:00</td><td>Registration</td><td colspan="3">Steering Committee</td><td>Oral Session #7</td><td>Oral Session #8</td><td>Oral Session #9</td><td colspan="3" rowspan="3"></td></tr>
<tr><td>18:00-18:30</td><td rowspan="2">Welcome Reception</td><td colspan="3" rowspan="2"></td><td colspan="3">Industrial Panel
@Silk Palace</td></tr>
<tr><td>18:30-20:00</td><td colspan="3">Banquet@ Silk Palace</td></tr>
</table>

Social Program

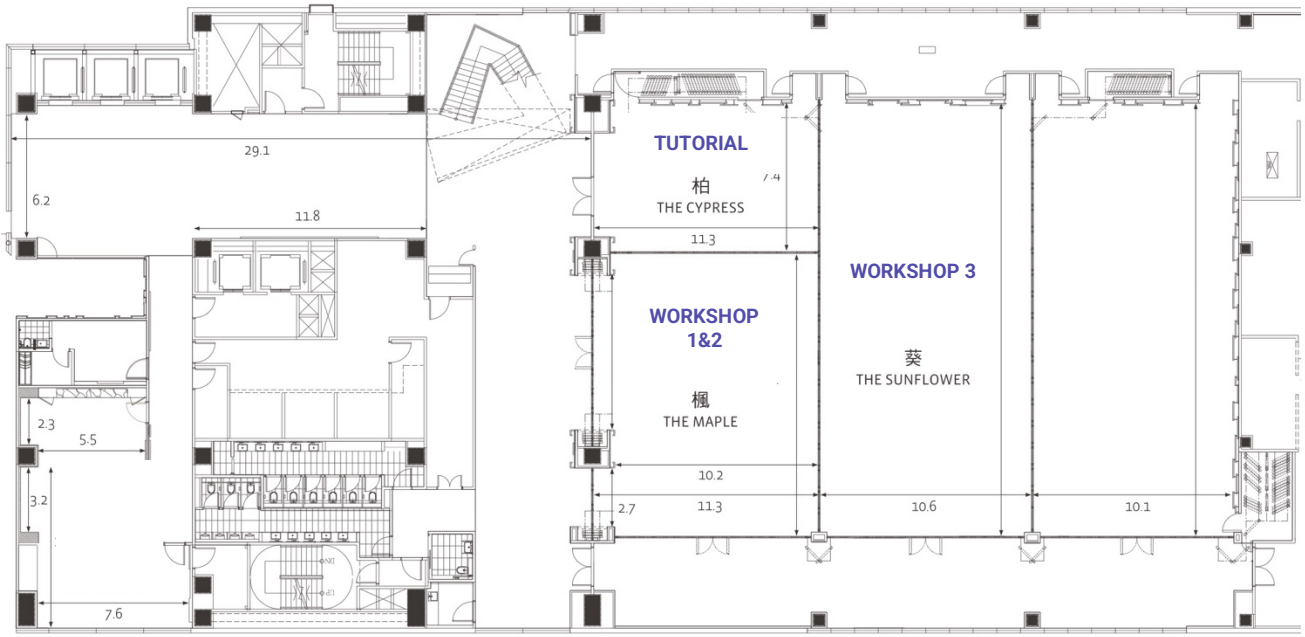
Social Program	Date	Time	Location
Welcome Reception	December 08	18:00-20:00	HNBK International Convention Center
Trip to National Palace Museum	December 10	14:15-17:00	**National Palace Museum**
Industrial Panel	December 10	17:00-18:30	**Silk Palace**
Banquet	December 10	18:30-20:30	Add: No.221 Chishan Road Section 2, Shilin, Taipei

Floor Plan

Conference



Workshop



Keynote Speeches

Keynote Speech #1- Prof. Craig KnoblocK

Time: 09:00-10:00 December 09, 2025, | **Venue:** Main Room

Title: From Tables to Knowledge Graphs: A Domain-Independent Approach to Semantic Table Interpretation

Abstract:

Tabular data remains one of the richest but most underutilized sources for building knowledge graphs. A key challenge is understanding the semantics of tables—identifying how columns map to ontology classes and properties, and how these relate to one another—without relying on extensive labeled data or domain-specific training. In this talk, we present a novel, domain-independent approach to semantic table interpretation that estimates the relatedness between table columns and ontology concepts using both metadata and data content. Unlike prior methods that require labeled examples or overlap with an existing knowledge graph, our approach generalizes effectively to new domains.

We demonstrate its effectiveness through an empirical evaluation showing significant improvements over strong large language model baselines. As a case study, we apply our method to the integration of historical mining literature into a large-scale knowledge graph of critical minerals, where automated table interpretation plays a crucial role in extracting structured information at scale. Beyond geoscience, this approach opens new opportunities for accelerating knowledge graph construction from tabular data across diverse domains.

Keynote Speech #2- Prof. Kun Zhang

Time: 09:00-10:00 December 10, 2025, | **Venue:** Main Room
Title: Causal Representation Learning and Causal Generative AI

Abstract:
Causality is a fundamental notion in science, engineering, and even machine learning and AI. Uncovering the causal process underlying observed data naturally helps answer 'why' and 'how' questions, informs optimal decisions, and enables adaptive prediction. In many scenarios, observed variables, such as image pixels and questionnaire responses, are often reflections of the underlying hidden causal variables rather than being causal variables themselves. Causal representation learning aims to reveal the underlying hidden causal variables and their relations. In this talk, we show how the modularity property of causal systems makes it possible to recover the underlying causal representations from observational data with identifiability guarantees: under suitable assumptions, the learned representations align with the underlying causal process. We further demonstrate how identifiable causal representation learning can directly benefit generative AI, using image generation, image editing, and text generation as illustrative examples.

Keynote Speech #3- Dr. Aja Huang

Time: 09:00-10:00 December 11, 2025, | **Venue:** Main Room
Title: AlphaZero in the generative AI era: AlphaTensor, AlphaProof and Gemini

Abstract:
In this talk we will track the progress of AI in solving hard mathematical and scientific problems, including AlphaZero works (AlphaTensor, AlphaProof) to today's powerful LLM like AlphaEvolve and Gemini.

Industrial Panel

Venue	**3F, Ballroom AB, Silk Palace (故宮晶華)**
Time	**17:00-18:30**
17:00-18:30	**Moderator:** Dr. Wei-Chao Chen **Panelists:** Dr. Robert Chen (Appier) Dr. Da-shan Shiu (MediaTek) Dr. Peter Wu (TWCloud.ai) Dr. Da-Cheng Juan (Google)

Oral Session Schedule

Tuesday, December 9, 2025

Room 201		
Time	**Paper ID**	**Title**
Oral Session 1		
10:30 - 10:40	37	Target Return Optimizer for Multi-Game Decision Transformer
10:40 - 10:50	69	Information-Based Exploration via Random Features for Reinforcement Learning
10:50 - 11:10	145	Outcome-based Semifactuals For Reinforcement Learning
11:10 - 11:20	142	POIL:Preference Optimization for Imitation Learning
11:20 - 11:40	2025-1553	Boosting Efficient Experience Exchange in Sparse-Reward Multi-Agent Reinforcement Learning
11:40 - 12:00	49	Relaxed Transition Kernels can Cure Underestimation in Adversarial Offline Reinforcement Learning
Oral Session 5		
14:30 - 14:40	118	Graph-Attention Network with Adversarial Domain Alignment for Robust Cross-Domain Facial Expression Recognition
14:40 - 14:50	2025-1557	ReCUR: Bipartite Graph Contrastive Unlearning with Influence Estimation for Privacy-preserved Recommendation
14:50 - 15:00	2025-1603	Moving Average Randomized Tree
15:00 - 15:10	121	Graph Mediator Networks Bridging Local and Global Semantics via Serial Message Passing
15:10 - 15:20	38	AHSG: Adversarial Attack on High-level Semantics in Graph Neural Networks
15:20 - 15:30	2025-1479	Collaborative Multivariate Time Series Forecasting via Variable-Tailored Inter-Temporal Graph and Adaptive-Smooth Frequency Fusion
Oral Session 8		
16:00 - 16:10	154	TLSD: Breaking the Limit of Topological Lane Mapping with Graph Knowledge and Distance Awareness
16:10 - 16:20	66	JurisGraph Insight Engine 1.0v: A Legal Question Answering System Based on Large Language Models and Knowledge Graphs
16:20 - 16:30	201	Explainable Dynamic Graph Neural Networks for Predictive Maintenance in Vehicle Chassis Systems
16:30 - 16:40	102	GIIM: A Graph Information Integration Method for Chinese-Kazakh CLIR
16:40 - 17:00	262	FG-MSTGNN: Cross-subject EEG Emotion Recognition via Frequency-guided Multi-period Spatial-temporal Graph Neural Network

Tuesday, December 9, 2025

Main		
Time	**Paper ID**	**Title**
Oral Session 2		
10:30 - 10:40	35	D^{3}epth: Distilling Diffusion Models For Efficient Depth Estimation Through A Two-Stage Approach
10:40 - 10:50	2025-1409	Harnessing Generative Flow Networks for Effective Structural Inference
10:50 - 11:00	167	Domain Adaptation with Hybrid Modeling for Learning Dynamical Systems
11:00 - 11:10	163	Reduced-rank Factorized Fourier Neural Operator
11:10 - 11:20	156	TAEGAN: Revisit GANs for Tabular Data Generation
11:20 - 11:40	117	Data-Centric Graph Condensation via Diffusion Matching
11:40 - 12:00	281	Bridging the Gap between Learning and Inference for Diffusion-Based Molecule Generation
Oral Session 4		
14:30 - 14:50	219	CAP: Conformalized Abstention Policies for Context-Adaptive Risk Management for LLMs and VLMs
14:50 - 15:10	124	Kairos: Redefining Event and Time Prediction with Language Modeling
15:10 - 15:20	109	High-Order Consistency-Guided User Identity Linkage with Large Language Model
15:20 - 15:30	224	CAD-HLLM: Generating Executable CAD from Text with Hierarchical LLM Planning
Oral Session 7		
16:00 - 16:10	244	ChameleonBench: Quantifying Alignment Faking in Large Language Models
16:10 - 16:30	31	Harnessing Large Language and Vision-Language Models for Robust Out-of-Distribution Detection
16:30 - 16:40	2025-1582	W2S: Weak-to-Strong Prompt Correction for Large Language Models
16:40 - 17:00	198	CrossPyEval: Enhancing LLM-based Evaluation of Low-Resource Code via Code Translation

Tuesday, December 9, 2025

Room 202		
Time	**Paper ID**	**Title**
Oral Session 3		
10:30 - 10:40	74	Increasing Batch Size Improves Convergence of Stochastic Gradient Descent with Momentum
10:40 - 11:00	65	Faster Convergence of Riemannian Stochastic Gradient Descent with Increasing Batch Size
11:00 - 11:20	51	Both Asymptotic and Non-Asymptotic Convergence of Quasi-Hyperbolic Momentum using Increasing Batch Size
11:20 - 11:40	295	Learning Curves of Classification Metrics based on Confusion Matrices
11:40 - 12:00	2025-1605	Faster Adaptive Momentum-Based Federated Methods for Distributed Composition Optimization
Oral Session 6		
14:30 - 14:40	47	Deviation-based multiple coefficient item mixer for heterogeneous set-to-set matching
14:40 - 14:50	52	Round Attention: A Novel Round-Level Attention Mechanism to Accelerate LLM Inference
14:50 - 15:10	2025-1451	DTSformer: A Dual-Branch Transformer with Multi-Scale Decomposition for Long-Term Time Series Forecasting
15:10 - 15:30	2025-1600	ABANet: An Atom-Bond Attention-Enhanced Neural Network for End-to-End Retrosynthesis
Oral Session 9		
16:00 - 16:10	57	Emergence of the Primacy Effect in Structured State-Space Models
16:10 - 16:30	2025-1506	Generalized Probabilistic Attention Mechanism in Transformers
16:30 - 16:40	2025-1542	S2TE: Staged Scale-Free Topology Evolution for Sparse Spiking Neural Networks
16:40 - 17:00	217	HIPPD: Brain-Inspired Hierarchical Information Processing for Personality Detection

Wednesday, December 10, 2025

Room 201		
Time	**Paper ID**	**Title**
Oral Session 10		
10:30 - 10:40	246	Training Data Soft Selection via Joint Density Ratio Estimation
10:40 - 10:50	2025-1581	Using Synthetic Data to estimate the True Error is theoretically and practically doable
10:50 - 11:00	20	Iterative Selection with Self-Review for Vocabulary Test Distractor Generation
11:00 - 11:10	2025-1960	Combating noisy labels in object detection datasets
11:10 - 11:20	2025-1531	Automated Machine Learning for Unsupervised Tabular Tasks
11:20 - 11:30	199	Kernel-Based Enhanced Oversampling Method for Imbalanced Classification
11:30 - 11:40	2025-1494	Dual-granularity Sinkhorn Distillation for Enhanced Learning from Long-tailed Noisy Data
11:40 - 12:00	161	ReSa2: A Two-Stage Retrieval-Sampling Algorithm for Negative Sampling in Dense Retrieval

Wednesday, December 10, 2025

Main		
Oral Session 11		
Time	**Paper ID**	**Title**
10:30 - 10:40	96	Jailbreak Defense in LLM via Attention Head Analysis and Selective Intervention
10:40 - 10:50	189	The Great Contradiction Showdown: How Jailbreak and Stealth Wrestle in Vision-Language Models?
10:50 - 11:00	152	δ-STEAL: LLM Stealing Attack with Local Differential Privacy
11:00 - 11:20	185	On the Privacy-preserving Generalized Eigenvalue Problem
11:20 - 11:40	2025-1566	A Regularization Framework for Gender Bias Mitigation in Dense Neural Rankers
11:40 - 11:50	257	SEMINAR: SEMantic InformatioN Augmented JailbReak Attack in LLM
11:50 - 12:00	16	Activation Steering Meets Preference Optimization: Defense Against Jailbreaks in Vision Language Model

Wednesday, December 10, 2025

Room 202		
Time	**Paper ID**	**Title**
Oral Session 12		
10:30 - 10:40	289	Suicidal Posts Detection System Incorporating Psychological Risk Factors
10:40 - 10:50	76	Beyond UDA: Examining Temporal and Frequency Representations in Time Series Transfer
10:50 - 11:00	231	SAFE: Spiking Neural Network-based Audio Fidelity Evaluation
11:00 - 11:10	2025-1572	Physics-Guided Encoder-Decoder Transformers for Path Planning of Autonomous Marine Vehicles: Development and Idealized Applications
11:10 - 11:20	2025-1460	A Task Allocation Algorithm in Mobile Crowdsensing under Time Constraints
11:20 - 11:30	223	Multi-view Privileged Information-based Representation Learning for Liver Cancer Classification
11:30 - 11:40	291	CryChime: When Large Language Models Learn to Listen to Distant Cries - A Counterfactual PEFT Framework for Urgent Need Detection in Disaster Social Media
11:40 - 12:00	115	Local Shuffled Skeleton Position Embedding Vision Transformer for Human Activity Recognition

Thursday, December 11, 2025

Room 201		
Time	**Paper ID**	**Title**
Oral Session 13		
10:30 - 10:40	2025-1550	Performance Estimation in Binary Classification Using Calibrated Confidence
10:40 - 10:50	253	Efficient Subsampling for GNN Downstream Tasks
10:50 - 11:10	2025-1613	Auto-clustering with Continuous Distribution Estimation on Centroids
11:10 - 11:30	126	Sampling Boundary for Causal Effect Estimation
11:30 - 11:50	2025-1569	Performative Prediction in the Wild: Adapting to Arbitrary Data Distribution Maps
Oral Session 16		
14:00 - 14:10	2025-1609	DeNAV: Decentralized Self-Supervised Learning with a Training Navigator
14:10 - 14:20	282	Risk-Averse Best Arm Set Identification with Fixed Budget and Fixed Confidence
14:20 - 14:40	164	Policy Iteration for Two-Player General-Sum Stochastic Stackelberg Games
14:40 - 15:00	84	Asymptotically Optimal Problem-Dependent Bandit Policies for Transfer Learning
15:00 - 15:10	63	Multi-play Multi-armed Bandits with Shareable Arm Capacities Revisited: Settling Scarce Capacity
15:10 - 15:20	29	Multi-thresholding Good Arm Identification with Bandit Feedback
15:20 - 15:30	2025-1552	RhoMARL: Robust Learning for Heterogeneous Multi-Agent Systems in Dynamic Environments

Thursday, December 11, 2025

Main		
Time	**Paper ID**	**Title**
Oral Session 14		
10:30 - 10:40	283	KVCrush: Key Value Cache size-reduction using similarity in head-behaviour
10:40 - 10:50	3	Punching Above Precision: Small Quantized Model Distillation with Learnable Regularizer
10:50 - 11:00	147	MSFAD: Multi-Scale Frequency-Aware Knowledge Distillation for Real-Time Object Detection on Edge Devices
11:00 - 11:10	169	Mega-CE^2 : A Multimodal Heterogeneous Aggregation Framework for End-Edge-Cloud Computing
11:10 - 11:20	120	FeelNet: A Lightweight Fast Fourier Transform EEG-based Emotion Recognition Network
11:20 - 11:40	278	Direct Quantized Training of Language Models with Stochastic Rounding
11:40 - 12:00	113	Optimizing Trajectory Matching Distillation via Parameter Difference-Driven Pruning
Oral Session 17		
14:00 - 14:10	2025-2693	Weakly Supervised Classification with Pre-Trained Models: A Robust Fine-Tuning Approach
14:10 - 14:20	245	EIKEA:Enhancing In-Context Knowledge Editing by Agents
14:20 - 14:30	176	Dual-Module Collaborative LoRA for Effective Large Language Model Fine-Tuning
14:30 - 14:50	88	Balancing Knowledge Updates: Toward Unified Modular Editing in LLMs
14:50 - 15:10	242	Towards Robust and Scalable Knowledge Editing in Text-to-Image Diffusion Models
15:10 - 15:30	58	Overcoming Domain Knowledge Forgetting in Continual Test-Time Adaptation via Siamese Networks

Thursday, December 11, 2025

Room 203		
Time	**Paper ID**	**Title**
Oral Session 15		
10:30 - 10:40	140	Continual Pre-Training is (not) What You Need in Domain Adaptation
10:40 - 11:00	2025-1488	GaPaTTA: Gaussian Entropy-Guided Prompt Placement for Test-Time Adaptation in Semantic Segmentation
11:00 - 11:20	151	Boundary-Aware Refinement with Environment-Robust Adapter Tuning for Underwater Instance Segmentation
11:20 - 11:30	2025-1611	LADA: Label Disambiguation and Domain-Aware Learning for Domain Generalization
11:30 - 11:40	265	Label-Perceptive Adversarial Domain Adaptation for Named Entity Recognition in Traditional Chinese Medicine: Dataset and Approach
11:40 - 11:50	155	Data-dependent Algorithmic Robustness Analysis of Pairwise Learning
11:50 - 12:00	2025-1544	FDGReID: Federated Domain Generalization for Person Re-Identification
Oral Session 18		
14:00 - 14:10	205	SparseSegNet: A Boundary-Aware Lightweight Segmentation Architecture for Skin Lesions
14:10 - 14:20	180	Dual Color Space Underwater Image Enhancement Network
14:20 - 14:30	2025-1539	Low-Light Scene Text Image Enhancement in the Wild
14:30 - 14:40	170	RSTSIC: Reparameterized Swin Transformer Stereo Image Compression
14:40 - 14:50	270	FIRM: Fusion-Injected Residual Memory Brings Token-Level Alignment to Unsupervised VI-ReID
14:50 - 15:10	248	MagicMask: A Real-time and High-fidelity Face Swapping Method Robust to Face Pose] {MagicMask: A Fast and High-fidelity Face Swapping Method Robust to Face Pose
15:10 - 15:30	101	Enhanced Blind Image Restoration with Channel Attention Transformers and Multi-Scale Attention Prompt-based Learning

Poster Session Schedule

Poster session 1 (December 9, 13:00 - 14:00)

Paper ID	Paper Title
29	Multi-thresholding Good Arm Identification with Bandit Feedback
35	D^{3}epth: Distilling Diffusion Models For Efficient Depth Estimation Through A Two-Stage Approach
37	Target Return Optimizer for Multi-Game Decision Transformer
49	Relaxed Transition Kernels can Cure Underestimation in Adversarial Offline Reinforcement Learning
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58	Overcoming Domain Knowledge Forgetting in Continual Test-Time Adaptation via Siamese Networks
65	Faster Convergence of Riemannian Stochastic Gradient Descent with Increasing Batch Size
69	Information-Based Exploration via Random Features for Reinforcement Learning
74	Increasing Batch Size Improves Convergence of Stochastic Gradient Descent with Momentum
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2025-1552	RhoMARL: Robust Learning for Heterogeneous Multi-Agent Systems in Dynamic Environments

Paper ID	Paper Title
2025-1553	Boosting Efficient Experience Exchange in Sparse-Reward Multi-Agent Reinforcement Learning
2025-1605	Faster Adaptive Momentum-Based Federated Methods for Distributed Composition Optimization
2025-1609	DeNAV: Decentralized Self-Supervised Learning with a Training Navigator
2025-2693	Weakly Supervised Classification with Pre-Trained Models: A Robust Fine-Tuning Approach

Poster session 2 (December 10, 12:30 - 14:00)

Paper ID	Paper Title
20	Iterative Selection with Self-Review for Vocabulary Test Distractor Generation
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47	Deviation-based multiple coefficient item mixer for heterogeneous set-to-set matching
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152	δ-STEAL: LLM Stealing Attack with Local Differential Privacy
154	TLSD: Breaking the Limit of Topological Lane Mapping with Graph Knowledge and Distance Awareness
185	On the Privacy-preserving Generalized Eigenvalue Problem
189	The Great Contradiction Showdown: How Jailbreak and Stealth Wrestle in Vision-Language Models?
201	Explainable Dynamic Graph Neural Networks for Predictive Maintenance in Vehicle Chassis Systems
217	HIPPD: Brain-Inspired Hierarchical Information Processing for Personality Detection
219	CAP: Conformalized Abstention Policies for Context-Adaptive Risk Management for LLMs and VLMs
244	ChameleonBench: Quantifying Alignment Faking in Large Language Models
246	Training Data Soft Selection via Joint Density Ratio Estimation
262	FG-MSTGNN: Cross-subject EEG Emotion Recognition via Frequency-guided Multi-period Spatial-temporal Graph Neural Network
2025-1506	Generalized Probabilistic Attention Mechanism in Transformers
2025-1531	Automated Machine Learning for Unsupervised Tabular Tasks
2025-1542	S2TE: Staged Scale-Free Topology Evolution for Sparse Spiking Neural Networks
2025-1557	ReCUR: Bipartite Graph Contrastive Unlearning with Influence Estimation for Privacy-preserved Recommendation
2025-1566	A Regularization Framework for Gender Bias Mitigation in Dense Neural Rankers
2025-1581	Using Synthetic Data to estimate the True Error is theoretically and practically doable
2025-1600	ABANet: An Atom-Bond Attention-Enhanced Neural Network for End-to-End Retrosynthesis
2025-1960	Combating noisy labels in object detection datasets

Poster session 3 (December 11, 12:30 - 14:00)

Paper ID	Paper Title
3	Punching Above Precision: Small Quantized Model Distillation with Learnable Regularizer
76	Beyond UDA: Examining Temporal and Frequency Representations in Time Series Transfer
126	Sampling Boundary for Causal Effect Estimation
140	Continual Pre-Training is (not) What You Need in Domain Adaptation
147	MSFAD: Multi-Scale Frequency-Aware Knowledge Distillation for Real-Time Object Detection on Edge Devices
151	Boundary-Aware Refinement with Environment-Robust Adapter Tuning for Underwater Instance Segmentation
169	Mega-CE^2 : A Multimodal Heterogeneous Aggregation Framework for End-Edge-Cloud Computing
231	SAFE: Spiking Neural Network-based Audio Fidelity Evaluation
253	Efficient Subsampling for GNN Downstream Tasks
265	Label-Perceptive Adversarial Domain Adaptation for Named Entity Recognition in Traditional Chinese Medicine: Dataset and Approach
278	Direct Quantized Training of Language Models with Stochastic Rounding
283	KVCrush: Key Value Cache size-reduction using similarity in head-behaviour
289	Suicidal Posts Detection System Incorporating Psychological Risk Factors
2025-1488	GaPaTTA: Gaussian Entropy-Guided Prompt Placement for Test-Time Adaptation in Semantic Segmentation
2025-1550	Performance Estimation in Binary Classification Using Calibrated Confidence
2025-1569	Performative Prediction in the Wild: Adapting to Arbitrary Data Distribution Maps
2025-1572	Physics-Guided Encoder-Decoder Transformers for Path Planning of Autonomous Marine Vehicles: Development and Idealized Applications
2025-1613	Auto-clustering with Continuous Distribution Estimation on Centroids

Tutorial & Workshops

Date: Friday, December 12, 2025

Venue: 5F, Humble House Taipei (Add: No.18, Songgao Rd., Xinyi Dist., Taipei City)

<table>
<tr><th colspan="4">Dec. 12th</th></tr>
<tr><th colspan="4">5F, Humble House Taipei</th></tr>
<tr><td rowspan="2">08:00-09:00</td><td colspan="3">Registration</td></tr>
<tr><td>Cypress Room</td><td>Maple Room</td><td>Sunflower Room</td></tr>
<tr><td>09:00- 10:00</td><td>Tutorial 1:
Robust and Trustworthy LLM</td><td>Workshop 1:
Neuro AI</td><td>Workshop 3:
Medical AI</td></tr>
<tr><td>10:00-10:30</td><td colspan="3">Coffee Break</td></tr>
<tr><td>10:30-12:00</td><td>Tutorial 1:
Robust and Trustworthy LLM</td><td rowspan="2">Workshop 1:
Neuro AI</td><td rowspan="2">Workshop 3:
Medical AI</td></tr>
<tr><td>12:00-12:30</td><td>Lunch Break</td></tr>
<tr><td>12:30-14:00</td><td colspan="3">Lunch Break</td></tr>
<tr><td>14:00-15:30</td><td>Tutorial 2:
ML for Natural Science</td><td>Workshop 2:
Trustworthy AI</td><td>Workshop 3:
Medical AI</td></tr>
<tr><td>15:30-16:00</td><td colspan="3">Coffee Break</td></tr>
<tr><td>16:00-17:00</td><td>Tutorial 2:
ML for Natural Science</td><td>Workshop 2:
Trustworthy AI</td><td>Workshop 3:
Medical AI</td></tr>
</table>

Maple Room

Workshop 1: NeuroAI: Learning the Brain and the Machine Code

Time	Program
09:00 -10:00	Keynote: Ila Fiete
10:00 -10:25	Tsung-Wei Ke
10:25 -10:50	Chung-Chuan Lo
10:50 -11:15	Ching-Lung Hsu
11:15 -11:40	Chiu-Chang Cheng
11:40 -12:05	Jie-Rong Lin
12:05 -12:30	Panel Discussion

Workshop 2: Reliable and Trustworthy Artificial Intelligence Workshop

Time	Program
14:00 -14:15	Introduction to the workshop
14:15 -14:45	Invited Speaker 1
14:45 -15:00	Oral Presentation 1
15:00 -15:15	Oral Presentation 2
15:15 -15:30	Oral Presentation 3
15:30 -16:00	Coffee Break and Poster Demonstrations
16:00 -16:15	Oral Presentation 4
16:15 -16:45	Invited Speaker 2
16:45 -17:00	Closing

Sunflower Room

Workshop 3: Medical AI Workshop

Time	Program
09:00 - 09:20	Registration
09:20 - 09:25	Workshop Opening
09:25 - 10:15	**Keynote Speech 1** **Session Chair: Anna Kobusinska** How to Know Earlier? Using Machine Learning to Identify the Risk of Disease Development - the Case of Glaucomatous Neuropathy *Cezary Mazurek, Poznan Supercomputing and Networking Center*
10:15 - 10:30	Coffee Break
10:30 - 11:20	**Keynote Speech 2** **Session Chair: Yung-jen (Jane) Hsu** Learning from Billions of Cells: Scaling AI for High-Resolution Pathology *Kun-Hsing Yu, Harvard Medical School*
11:20 - 12:00	**Medical AI Research** **Session Chair: Yung-jen (Jane) Hsu** **Distinguished Speech 1** Building AI to Assist Humans on the Road and in the Operating Room *Yen-Ling Kuo, University of Virginia* **Distinguished Speech 2** A Multimodal Deep Learning Framework for Inhalation Injury Severity Prediction via Tabular–Image Embedding Fusion *Ying-Jia Lin, Chang Gung University*
12:00 - 13:30	Lunch Break
13:30 - 14:30	**Keynote Speech 3** **Session Chair: Kwei-Jay Lin** A Surgeon's View on the Utilization of Artificial Intelligence in the Healthcare *Ming-Chin Yu, New Taipei Municipal TuCheng Hospital*
14:30 - 15:30	**AI in Cardiology** **Session Chair: Kun-Chi Yen** **Distinguished Speech 3** Apply AI-ECG for low EF diagnosis and prognosis prediction *Chung-Lieh Hung, Mackay Memorial Hospital* **Distinguished Speech 4** Artificial Intelligence–Driven Insights in Cardiac Electrophysiology *Chih-Min Liu, Taipei Veterans General Hospital* AI and Advanced Imaging in HF: Early Identification and Clinical Implications *Sheng-Po Yuan et al., Chang Gung University*

Time	Program
	Distinguished Speech 5 Artificial Intelligence–Driven Insights in Cardiac Electrophysiology *Chih-Min Liu, Taipei Veterans General Hospital* Self-Supervised Masked Autoencoders for High-Accuracy Left Ventricle Segmentation in Echocardiography *Sheng-Po Yuan et al., Chang Gung University*
15:30 - 16:00	Coffee Break
16:00 - 17:15	**Short Paper Session** **Session Chair: Ying-Feng Chang** **Enhancing Data Efficiency in Medical Imaging via Multi-Stage Fine-Tuning of MAE Foundation Models** *Fu-Chiang Chou et al., Chang Gung University* **Associating Healthcare Teamwork with Cancer Patient Outcomes** *Hsiao-Ying Lu et al., University of California, Davis* **Border-Restricted PHI & Radiographs De-Identification with OCR Guided Masks and Conditional Diffusion Inpainting** *Sanhita Pathak et al., IIT Delhi* **Text-to-Tabular Generation with Large Language Models: Opportunities and Limits for Synthetic Healthcare Data** *Margaux Törnqvist et al., Quinten Health* **Development of an Ensemble Model and a Web-Based Platform for Prenatal Thalassemia Screening in Vietnam** *Thanh Dat Nguyen et al., Chang Gung University*

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