Program at a Glance

Time	Workshop Day Thursday | Nov 12	Main Day 1 Friday | Nov 13	Main Day 2 Saturday | Nov 14	Main Day 3 Sunday | Nov 15
08:30–19:00	Registration	Registration	Registration Teen Research Symposium (Full Day)	Registration
08:30–08:50	Workshop 1–11	Opening Ceremony		
08:50–09:50		Keynote 1	Keynote 2	Keynote 3
09:50–10:10		Coffee Break	Coffee Break	Coffee Break
10:10–12:00		Tutorial 1–2 Women Forum	Tutorial 3–4 Education Forum	Industrial Tutorial 5–6
12:00–12:10	Lunch	Lunch	Lunch	Lunch
13:00–13:30	Workshop 1–4 & 12–18			
13:30–15:30		L1–L10 PhD Forum	L11–L17 Demo Education Forum BlueSky Forum Poster Session 2（S） 14:40–16:10	L18–L20 S10 Workshops 29-34
15:30–15:50	Coffee Break	Coffee Break		Coffee Break
15:50–16:10	Workshop 1 & 19–28 & 35	S1–S9 Poster Session 1（L） 15:50–17:20	Coffee Break	S11–S14 Workshops 29-34
16:10–16:30				
16:30–18:00			FCS Panel	
18:00–18:30				
18:30–18:50		Reception Lucky Draw	Banquet Awards Ceremony	
18:50–20:30	Dinner			

IEEE ICDM 2026 Conference Handbook

ICDM 2026
Shenyang, China

THE 26TH
IEEE INTERNATIONAL CONFERENCE ON DATA MINING

November 12-15, 2026

Conference Handbook

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2026

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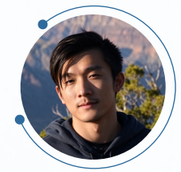
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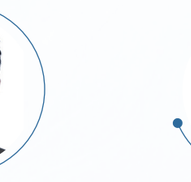
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Program at a Glance

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08:30–19:00	Registration	Registration	Registration Teen Research Symposium (Full Day)	Registration
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08:50–09:50		Keynote 1	Keynote 2	Keynote 3
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12:10–13:00		Lunch	Lunch	Lunch
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15:30–15:50	Coffee Break	Coffee Break	Coffee Break	Coffee Break
15:50–16:10	Workshop 1 & 19–28 & 35	S1–S9 Poster Session 1 (L) 15:50–17:20		S11–S14 Workshops 29-34
16:10–16:30				
16:30–18:00			FCS Panel	
18:00–18:30				
18:30–18:50		Reception Lucky Draw	Banquet Awards Ceremony	
18:50–20:30	Dinner			

Program Schedule

ICDM 2026 | Workshop Day | Thursday | November 12, 2026

Time	Grand Ballroom I	Grand Ballroom II	VIP Room	Paris	London	Beijing	Madrid	Kuala Lumpur	Seoul	Rome	Berlin II
08:30-19:00	Registration (1F)										
08:30–09:50	W01 SENTIRE	W02 OWAD	W03 ADSD	W04 TML4DM	W05 WMAI	W06 DM-AISC	W07 OEDM	W08 HDM	W09 PM4B	W10 WAIP	W11 BioFM
09:50–10:10	Coffee Break										
10:10–12:00	W01 SENTIRE	W02 OWAD	W03 ADSD	W04 TML4DM	W05 WMAI	W06 DM-AISC	W07 OEDM	W08 HDM	W09 PM4B	W10 WAIP	W11 BioFM
12:00–13:00	Lunch (Grand Ballroom III 3F & Cafe Vista 1F & Lobby Bar 1F)										
13:00–15:30	W01 SENTIRE	W02 OWAD	W03 ADSD	W04 TML4DM	W12 DMBIH	W13 MedTSFM	W14 GNN-LLM-SYN	W15 UIM3	W16 IncrLearn	W17 STFG	W18 HDAI
15:30–15:30	Coffee Break										
15:50–17:40	W01 SENTIRE	W19 PM4CLUSTER	W20 AI4S-Bench	W21 TrustFL-SIS	W35 DMS	W23 EDMML	W24 EvoGraphDM	W25 MHSM	W26 DLC'26	W27 TrustRS	W28 MIDAS
17:40–17:50									Transition		
17:50–18:50									W22 LLM4MDF		
18:50–20:30	Dinner (Grand Ballroom III 3F & Cafe Vista 1F & Lobby Bar 1F)										

ICDM 2026	Main Day 1 | Friday | November 13, 2026			Main Day 2 | Saturday | November 14, 2026				Main Day 3 | Sunday | November 15, 2026		
Time	Events			Time	Events		Teen Research Symposium	Time	Events	
08:00–08:30	Registration (1F)			08:00–08:30	Registration (1F)		Registration (1F)	08:00–08:50	Registration (1F)	
08:30–08:50	Opening Ceremony (Grand Ballroom)			08:30–08:50			Teen Opening (Beijing)			
08:50–09:50	Keynote 1 (Grand Ballroom)			08:50–09:50	Keynote 2 (Grand Ballroom)		Teen Keynotes (Beijing)	08:50–09:50	Keynote 3 (Grand Ballroom)	
09:50–10:10	Coffee Break			09:50–10:10	Coffee Break			09:50–10:10	Coffee Break	
10:10–12:10	Tutorial 1 (Grand Ballroom I)	Tutorial 2 (Grand Ballroom II)	Women Forum (VIP Room)	10:10–12:10	Tutorial 3 (Grand Ballroom II)	Tutorial 4 (Grand Ballroom I) / Education Forum (VIP Room)	Teen Poster Session (Beijing & Madrid)	10:10–12:10	Industrial Tutorial 5 (Grand Ballroom II)	Industrial Tutorial 6 (Grand Ballroom I)
12:10–13:30	Lunch (Grand Ballroom III 3F & Cafe Vista 1F & Lobby Bar 1F)			12:10–13:30	Lunch (Grand Ballroom III 3F & Cafe Vista 1F & Lobby Bar 1F)			12:10–13:30	Lunch (Grand Ballroom III 3F & Cafe Vista 1F & Lobby Bar 1F)	
13:30–15:30	L1 (Grand Ballroom I) L2 (Grand Ballroom II) L3 (Paris) L4 (London) L5 (Beijing)	L6 (Madrid) L7 (Kuala Lumpur) L8 (Seoul) L9 (Rome) L10 (Berlin II)	PhD Forum (VIP Room)	13:30–16:10	L11 (Paris) L12 (London) L13 (Kuala Lumpur) L14 (Seoul) L15 (Rome) L16 (Berlin I) L17 (Berlin II)	Demo (Beijing) Poster Session 2 (S) (Foyer 2F & 3F 14:40–16:10) / Education Forum (VIP Room) BlueSky Forum (Madrid)	Dome Theater Film AI Hands-on Workshop (Liaoning Science & Technology Museum)	13:30–15:30	L18 (Paris) L19 (London) L20 (Beijing) S10 (Madrid)	W29 (Berlin I) W30 (VIP Room) W31 (Kuala Lumpur) W32 (Seoul) W33 (Rome) W34 (Berlin II)
15:30–15:50	Coffee Break			16:10–16:30	Coffee Break			15:30–15:50	Coffee Break	
15:50–18:00	S1 (VIP Room) S2 (Paris) S3 (London) S4 (Beijing) S5 (Madrid)	S6 (Kuala Lumpur) S7 (Seoul) S8 (Rome) S9 (Berlin II)	Poster Session 1 (L) (Foyer 2F & 3F 15:50–17:20)	16:30–18:00	FCS Panel			15:50–18:00	S11 (Paris) S12 (London) S13 (Beijing) S14 (Madrid)	W29 (Berlin I) W30 (VIP Room) W31 (Kuala Lumpur) W32 (Seoul) W33 (Rome) W34 (Berlin II)
18:00–18:30				18:00–18:30						
18:30–20:30	Reception & Lucky Draw (Grand Ballroom)			18:30–20:30	Banquet & Awards Ceremony (Grand Ballroom)					

Session Details

Main Day 1 · Friday, November 13, 2026

Session L1 Research Track · Machine learning and statistical methods

Session Chair: Xin Sun (City University of Macau) 13:30–15:30 Grand Ballroom I

13:30–13:45	**DM1072 PaSta: Noisy Node Classification with Partial Label Learning** Yujing Liu; Yixin Liu; Yu Zheng; Yue Tan; Alan Wee-Chung Liew; Shirui Pan	P1-3A-1
13:45–14:00	**DM1278 Geometry-Aware Bayesian Parameter-Efficient Fine-Tuning on the Stiefel Manifold via Stein Variational Gradient Descent** Quang-Duy Tran; Trung Le; Bao Duong; Phuoc Nguyen; Thin Nguyen	P1-3A-2
14:00–14:15	**DM1319 An FFE-FRCN-Based Data Platform for Environmental Microorganism Image Retrieval and Knowledge Platform;** Zihan Li; Jianbo Zhu; Marcin Grzegorzek; Chen Li	P1-3A-3
14:15–14:30	**DM1438 Escaping the Mirror Trap: Parity-Harmonized Flow Matching on Riemannian Manifolds for Peptide Design** Suyang Zhou; Hechuan Zhang; Li Sun; Yutong Ye; Philip S. Yu; Mingsong Chen	P1-3A-4
14:30–14:45	**DM1815 Learning Task-Conditioned Distributional Initializers for Variational Quantum Algorithms** Hea Eun Lee; Jangho Kim	P1-3A-5
14:45–15:00	**DM1964 Local Density-Refined Granular Ball-Based Label Augmentation for Crowdsourcing** Yongqi Li; Huan Zhang; Yongping Zeng; Chang Liu; Pei Lv; Mingliang Xu	P1-3A-6
15:00–15:15	**DM1989 Enhancing Adversarial Attacks via Parameter Adaptive Adversarial Attack** Zhibo Jin; Jiayu Zhang; Zhiyu Zhu; Chenyu Zhang; Hongyang Chen; Jianlong Zhou; Fang Chen	P1-3A-7
15:15–15:30	**DM2140 Reliability-Guided Pseudo-Label Learning and Prototype Alignment for Domain-Adaptive Colorectal Segmentation** Yu Miao; Lusha Qi; Yuanqian Zhu; Juanjuan Zhao; Songhua Liu	P1-3A-8

Session L2 Research Track · Heterogeneous data mining: multimodal and temporal learning

Session Chair: Siqi Liu (University of Science and Technology Beijing) 13:30–15:30 Grand Ballroom II

13:30–13:45	**DM909 ECMSA: Entropy-Constrained Dual Alignment for Multimodal Sentiment Analysis** Nankai Lin; Xining Yang; Bowen Ruan; Hongyan Wu; Lianxi Wang; Xinfeng Liao; Shengyi Jiang	P1-3A-9
13:45–14:00	**DM935 PASTDD:Periodic-Aperiodic Spatial-Temporal Dependency Disentangling for Traffic Forecasting** Qian Chu; Chi Jin; Feng Wang; Yuling Huang; Yi Zhang; Yifan Sun	P1-3A-10
14:00–14:15	**DM577 Bayesian Spectral Emotion Transition Discovery from Multi-Annotator Disagreement** Keito Inoshita; Takato Ueno	P1-3A-11
14:15–14:30	**DM1718 PGMNER: Polarization-Guided Multimodal Named Entity Recognition with Partial Optimal Transport** Yixiao Jiang; Yongxiu Xu; Feiyu Han; Jian Tang; Zhaoqi Zhou; Ji Zhang; Chuan Zhou	P1-3A-12
14:30–14:45	**DM1760 SHAPE: Shift-Aware Preference Alignment for Probabilistic Time Series Forecasting** Xiaoyang Li; Wei Emma Zhang; Guodong Long; Hua Wang; Quan Z. Sheng	P1-3A-13
14:45–15:00	**DM1770 DACNet: Distilled and Aligned Cyclemap Network for Efficient Time Series Forecasting** Liang Yu; Mingzhe Qian; Jinhe Li; Lai Tu; Tao Wu	P1-3A-14
15:00–15:15	**DM1944 Polarity-Asymmetric Structural Calibration for Link Sign Prediction** Qiqi Gao; Wenzhuo Song; Xueyan Liu	P1-3A-15
15:15–15:30	**DM1955 HOPE: Heterophily-Aware Open-Set Node Classification with Pseudo-Extrapolation** Yumeng Dai; Yue Tan; Yixin Liu; Chenxu Wang; Pinghui Wang; Tao Qin	P1-3A-16

Poster code: P{Day}-{Floor}{Area}-{ID}; Day 1 = Nov 13; Day 2 = Nov 14.

Session L3 Research Track · Foundations, graphs and learning methods

Session Chair: Andrea D'Ascenzo (Gran Sasso Science Institute) 13:30–15:30 Paris

13:30–13:45	**DM1553 Prototype-Constrained Imputation with Dual Contrastive Learning for Incomplete Multi-View Clustering** Rui Liu; Siyuan Peng	P1-3A-17
13:45–14:00	**DM1125 Unsupervised Multi-Scale Gromov-Wasserstein Hypergraph Alignment** Lutz Oettershagen; Honglian Wang; Aristides Gionis	P1-3A-18
14:00–14:15	**DM1549 ProIQA: A Process-Based Framework for Fine-Grained Math Item Quality Assessment** Junkai Tong; Mingjia Li; Haoran Chen; Yaoyu Jiang; Hanjie Ge; Yixuan Wang; Hong Qian	P1-3A-19
14:15–14:30	**DM435 Preference-Constrained Contrastive Adapters for LLM-based Dynamic Link Prediction** Xiawei Yue; Jiayi Luo; Yuexin Duan; Di Kong; Yufei Sun; Ran Zhang; Kehan Yang; Xiao Wang; Ziwei Zhang	P1-3A-20
14:30–14:45	**DM954 TSMini: A Simple Yet Highly Effective Trajectory Similarity Learning Model** Yanchuan Chang; Dingyang Lyu; Xu Cai; Christian S. Jensen; Jianzhong Qi	P1-3A-21
14:45–15:00	**DM1160 RECOS: Scalable Exact Simplet-Orbit Counting for Higher-Order Networks** Vladimir Novikov; Viktor Krivoshchekov; Mark Beliaev; Oleg Kachan	P1-3A-22
15:00–15:15	**DM1767 Lightweight Out-of-Distribution ANNS via LeanVec-Guided Subspace Collision** Feiyu Han; Chuan Zhou; Xinran Ma; Jian Tang; Yixiao Jiang; Zhaoqi Zhou; Zhiming Ma	P1-3A-23
15:15–15:30	**DM1279 HyperGT: Efficient and Effective Graph Transformer via Multi-View Fusion of Super-Nodes** Xinzhi Zou; Yu Gu; Zhigang Wang; Zhenghao Liu; Fangfang Li; Xiaohua Li; Ge Yu	P1-3A-24

Session L4 Research Track · Heterogeneous data mining: spatiotemporal and representation learning

Session Chair: Tsz Nam Chan (Shenzhen University) 13:30–15:30 London

13:30–13:45	**DM326 GCDE:Understanding Group Cognition through Explainable Diffusion-Based Diagnosis Model** Lu Jiang; He Zhang; Sizhen Bian; Siyu Yuan; Wenjuan Cui; Pengfei Wang; Yanjie Fu	P1-3A-25
13:45–14:00	**DM347 A Spatial-Temporal Distribution Shift Aware Mixture-of-Experts Model for Urban Atmospheric Forecasting** Lu Jiang; Jinhao Fu; Runchang Liang; Xuan Liu; Yanan Xiao; Yuanbo Xu; Wenjuan Cui; Pengyang Wang	P1-3A-26
14:00–14:15	**DM504 DKERC: Entropy-driven and Signed Dynamic Knowledge Selection Framework for Emotion Recognition in Conversation** Mingzhu Chang; Xiaoqin Xie; Shuai Han; Huanran Wang; Wei Wang; Wu Yang	P1-3A-27
14:15–14:30	**DM901 PriMoTraj: Motion-Prior Gating for Lightweight GPS-Derived Trajectory Forecasting** En Chen; Yuanbo Xu; Yang Li; Weitong Chen	P1-3A-28
14:30–14:45	**DM1225 Optimal Long-distance Route Query for Electric Vehicles** Jialong Zhang; Mengxiang Wang; Huaijie Zhu; Wei Liu; Jianxing Yu; Jian Yin	P1-3A-29
14:45–15:00	**DM1228 SatGuide: A POI-Anchored Vision-Language Learning Framework for Robust Satellite Images-based Urban Socioeconomic Prediction** Tianyang Guo; Yuanbo Xu; Wenbin Liu; Jiawei Liu; Lu Jiang; Pengyang Wang; Pengfei Wang	P1-3A-30
15:00–15:15	**DM1755 Temporal Heterogeneous Graph Tokenization** Tingting Wang; Feng Ding; Yingzhou Li; Shuo Yu; Xiang Zhou; Ruolin Li; Xin Ye	P1-3A-31
15:15–15:30	**DM1189 Traj-Transformer: Diffusion Models with Transformer for GPS Trajectory Generation** Zhiyang Zhang; Ningcong Chen; Xin Zhang; Yanhua Li; Shen Su; Hui Lu; Jun Luo	P1-3A-32

Session L5 Research Track · Recommendation and forecasting

Session Chair: Tong Chen (The University of Queensland) 13:30–15:30 Beijing

13:30–13:45	**DM266 An Efficient and Effective Agentic Group Shilling Attack on Recommender Systems** Viet Nguyen; Trinh Pham; Viet Huynh; Hongzhi Yin; Quoc Viet Hung Nguyen; Bay Vo; Thanh Tam Nguyen	P1-3A-33
13:45–14:00	**DM813 PatchRAFT: Patch-Level Selective Retrieval-Augmented Forecasting for Time Series** Kang-Qiang Chen; Yu-Jia Hai; Ling Huang; Yuefang Gao; Pei-Yuan Lai; Zhenyu Yang	P1-3A-34
14:00–14:15	**DM1048 User Representation via Cross Multi-source Behavior Pre-training for Mobile Games** Chengqi Yang; Yiran Qiao; Feng Liu; Xingyu Lou; Zijun Zhou; Xiaoyun Mo; Changwang Zhang; Jiayuan Xu; Jun Wang; Xiang Ao	P1-3A-35
14:15–14:30	**DM1412 EviRank: Evidence-Grounded Reviewer Recommendation via Dynamic Query-Specific Profiles** Xie Xinqiang; Xu Hongwei; Sun Yatong; Zhang Wenlong	P1-3A-36
14:30–14:45	**DM1980 Retrieval-Augmented Preference Flow for Cold-Start Cross-Domain Recommendation** Wen Wen; Shaojie Min; Roy Ka-Wei Lee; Yupeng Li; Qingyuan Gong; Xin Wang; Yang Chen	P1-3A-37
14:45–15:00	**DM2082 Theoretically Sound Item Similarity Measures for Recommender Systems** Noah Daniëls; Joey De Pauw; Bart Goethals	P1-3A-38
15:00–15:15	**DM410 Controllable Generative Recommendation via Guided Token Refinement** Haichao Zhang; Zhixuan Liang; Chong Zhang; Zixi Chen; Wen Wang; Jia Wang	P1-3A-39
15:15–15:30	**DM680 Explain, Then Forget: Recommendation Unlearning under Asymmetric Access Constraint** Haichao Zhang; Chong Zhang; Wen Wang; Shi Qiu; Peiyu Hu; Jia Wang	P1-3A-40

Session L6 Research Track · Heterogeneous data mining and systems

Session Chair: Shulan Ruan (Harbin Institute of Technology (Shenzhen)) 13:30–15:30 Madrid

13:30–13:45	**DM1201 FedLoSD: Federated Log-State Dynamics for Nonnegative Distributed Time-Series Forecasting** Bo Pang; Di Zhao; Tingrui Qiao; Yuzhuo Li; Ramasamy Savitha; Albert Bifet; Yun Sing Koh	P1-3B-41
13:45–14:00	**DM1314 Is Text Always Helping? A Systematic Evaluation and Enhanced Fusion Strategy for Multimodal Time Series Forecasting** Xinyu Xie; Jiaxiang Li; Jiayi Liang; Xiaoling Wang; Yuanbin Wu	P1-3B-42
14:00–14:15	**DM1402 Decoupling Knowledge from Poison: FedRHD for Robust Federated Learning under Extreme Data Heterogeneity** Wei Wei; Qipeng Song; Yue Li	P1-3B-43
14:15–14:30	**DM1437 Divide and Conquer: Federated Prompt Learning via Dual-Stream Prompts for Vision-Language Models** Lingyu Qiu; Daniela Annunziata; Stefano Izzo; Fabio Giampaolo; Francesco Piccialli	P1-3B-44
14:30–14:45	**DM1672 LAPT: Lineage-aware Dynamic Community Detection via Adaptive Prototype Transport** Limengzi Yuan; Xiangmin Zhou; Yurong Cheng; Binbin Zheng; Zahir Tari	P1-3B-45
14:45–15:00	**DM1822 Not All Clients Value the Same Meta-Path: Schema-Decoupled Federated Heterogeneous Graph Completion** Zhuoyang Han; Junxiang Zhang; Ying Jin; Guantao Tang; Tingting Wang; Tao Tang; Yicong Li; Shan Jin; Guoxin Zhong; Shuo Yu; Feng Ding	P1-3B-46
15:00–15:15	**DM1882 Spatiotemporal Brain Hypergraph Contrastive Learning** Shan Jin; Jialing Xu; Anni Chen; Yicong Li; Tingting Wang; Shuo Yu; Qiang Zhang; Feng Xia	P1-3B-47
15:15–15:30	**DM2002 HiMamba: A Hierarchical State Space Framework for Asymmetric Multimodal Data Mining in Clinical Assessment** Biandi Cheng; Peng Wang; Hui Cui; Ping Xuan; Cong Cong; Ran Su; Leyi Wei; Qiangguo Jin; Fei Guo; Yupin Chen	P1-3B-48

Session L7 Research Track · LLM-driven data mining and retrieval I

Session Chair: Hengzhao Ma (Northeastern University) 13:30–15:30 Kuala Lumpur

13:30–13:45	**DM1214 Motif-derived Decoupled Graph Clustering with Multi-task Self-supervised Prompt** Guang-Yu Zhang; Yan-Chun Huang; Zi-Xin Mo; Hai-Yan Wang; Dong Huang; Chang-Dong Wang	P1-3B-49
13:45–14:00	**DM736 From Natural-Language Hypotheses to Verified Data-Mining Discoveries** Phat Tran-Truong Tuan; Sơn Hà Xuân; Tung Nguyen Quang; Bach Le-Xuan	P1-3B-50
14:00–14:15	**DM1516 Pre-Execution Binary Routing Between Program-Generation and Language Modules for Efficient Table Reasoning** Yiming Lei; Yang Bin; Xikuan Yuan; Jiake Ge; Xin Wang	P1-3B-51
14:15–14:30	**DM924 MULM: Multilingual LoRA Backdoor Defense via Multi-View Drift Mining** Lianxi Wang; Yuying Li; Chao Liang; Jiahuan Yang; Xinfeng Liao; Nankai Lin	P1-3B-52
14:30–14:45	**DM522 REVA: Reusable Evidence View Aggregation for Context-Efficient RAG Serving** Tuan Nguyen; Qiran Hu; Banruo Liu; Khoa D. Doan; Kok-Seng Wong; Fan Lai	P1-3B-53
14:45–15:00	**DM1409 Denoising-Aware Inversion: Revealing Privacy Risks in Noise-Protected Text Embeddings** Yubo Wang; Shujie Cui; James Bailey; Hongzhi Yin; Wenyu Liang; Min Tang; Shiyue Qin; Weiqing Wang	P1-3B-54
15:00–15:15	**DM1860 Physics Simulation on General Geometries via Physical Partitioning and Laplacian Spectral Modeling** Shihang Li; Zhiqiang Gong; Tao Zhou; Yue Gao; Wen Yao	P1-3B-55
15:15–15:30	**DM1659 UBA-ORL: Unlearning-Activated Backdoor Attacks on Offline Reinforcement Learning** Fengyi Wang; Cong Li; Lulu Xue; Qiyu Leng; Ziqi Zhou; Peijin Guo	P1-3B-56

Session L8 Applied Track · Sustainability, society and public services

Session Chair: Xinyue Wang (Northeastern University) 13:30–15:30 Seoul

13:30–13:45	**DM280 ExpEva-FCHD: Expert-Diagnostic-Data-Grounded LLM Assistance for Fetal Congenital Heart Disease Screening in Low-Resource Care** Runze Liu; Yingying Zhang; Yiting Zhao; Hao Sheng; Jingyi Wang; Xiaoyan Gu; Jiancheng Han; Jia Gu; Shuo Zhang; Yihua He; Haogang Zhu	P1-3B-57
13:45–14:00	**DM1595 Carbon-Credit Methodology Selection as Retrieval-as-Classification: Evaluating General-Purpose Language Models in a Registry Document Corpus** Jaewoong Lee; Yeji Kim; Jiyong Eom	P1-3B-58
14:00–14:15	**DM1602 From Permutations to Plans: A Controlled Study of Supervised Construction for Fleet-Constrained Vehicle Routing** Daniela Thyssens; Jonas Falkner; Tom Hanika; Lars Schmidt-Thieme	P1-3B-59
14:15–14:30	**DM1613 Dual-Branch Synergistic Learning for Coordinated Action Quality Assessment in Pair Skating** Siyuan Yin; Menglin Wang; Bin Zhao; Qing Peng; Yanda Wang	P1-3B-60
14:30–14:45	**DM1619 Face4FairShifts: A Large Image Benchmark for Fairness and Robust Learning across Visual Domains** Yumeng Lin; Dong Li; Xintao Wu; Minglai Shao; Xingcheng Fu; Xujiang Zhao; Zhong Chen; Chen Zhao	P1-3B-61
14:45–15:00	**DM1719 A Deployed LLM-Based System for Urban Employee Pension Fund Actuarial Analysis** Haitao Zhou; Zhenfeng Yang; Jinpeng Deng; Xinyu Zhuang; Ming Jiang; Yucen Gao	P1-3B-62
15:00–15:15	**DM1774 Cross-Basin Flood Forecasting under Asymmetric Data: From Labeled Gauges to Label-Free Deployment** Yunfei Li; Zhenzhou He; Yunze Zhu; Daqi Kong; Rui Zhou; Jun Wang; Yifan Chen; Yuchang Mo; Jin Wei	P1-3B-63
15:15–15:30	**DM1883 UE-E2V: A Dataset Toward Early Violence Recognition in School Environments** Khanh Ngo; Nha Tran; Diem Duong; Nhan Phung; Phi Ta; Tai Huynh; Hung Nguyen; Vinh Le; T. Vuong Pham; D. Hien Nguyen	P1-3B-64

Session L9 Applied Track · Recommendation, security and operational intelligence I

Session Chair: Jia Wang (Xi'an Jiaotong-Liverpool University) 13:30–15:30 Rome

13:30–13:45	**DM1927 Multi-View Self-Consistency Decoding for Ancient Stele Inscriptions OCR** Wenjie Hou; Jipeng Qiang; Yi Zhu; Yunhao Yuan; Xiaoyu Wang; Kaixun Hua	P1-3B-65
13:45–14:00	**DM286 Enhancing Group Recommendation with Memory-Augmented Reasoning in LLM Agent** Qimeng Niu; Bowen Hao; Zixuan Zhang; Shuyu Qu; Hongzhi Yin	P1-3B-66
14:00–14:15	**DM2134 Motivation-Driven Multi-Persona Agentic Simulation for Livestreaming Sales Forecasting** Hongyan Xue; Xiang Ao; Hao Qin; Qing He	P1-3B-67
14:15–14:30	**DM2139 Exploring Weaknesses of Generative Image Watermarks against Latent Frequency Masking** Kirill Aistov; Khaled Abud; Irina Serzhenko; Egor Kovalev; Aleksey Yakushev; Aleksandr Akimenkov; Dmitry Obydenkov; Yury Markin; Sergey Lavrushkin; Dmitriy Vatolin; Anastasia Antsiferova	P1-3B-68
14:30–14:45	**DM2207 Hierarchical Exponential-Gaussian Mixtures for Watch-Time Distribution Prediction** Sofia Gulevskaia; Mikhail Trapeznikov; Aleksandr Poslavsky; Alexander D'yakonov	P1-3B-69
14:45–15:00	**DM744 Membership is Ownership: A Robust Ownership Verification Framework for Diffusion Models** Feng Jiang; Zuobin Xiong; An Huang; Zhipeng Cai; Yingshu Li	P1-3B-70
15:00–15:15	**DM1015 KMER: A Heterogeneous Multimodal Benchmark for Knowledge-Conditioned Educational Reasoning** Quanlong Guan; Xiuliang Duan; Shoufu Zheng; Zhijian Yin; Jianbo Huang; Xiujie Huang; Yuyu Zhou; Liangda Fang	P1-3B-71
15:15–15:30	**DM1180 The Held-Out Season Is Not Enough: Auditing Player-Identity Leakage in Team-Performance Benchmarks** Suan Lee; Wookey Lee	P1-3B-72

Session L10 Applied Track · Healthcare, multimodal sensing and security

Session Chair: Chenxi Liu (Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences) 13:30–15:30 Berlin II

13:30–13:45	**DM336 CP-Network: Content-Preserving Style Transfer for Diverse Medical Images with Dynamic Weights** Wei Li; Pingping Tao; Kai Jin; Hui Yang; Yinghui Wang; Jipeng Qiang; Jiaxing Shen	P1-3B-73
13:45–14:00	**DM346 Posterior Traffic State Mining for Latency-Sensitive Task Offloading in Computing Power Network** Shangyang Wu; Zhichao Chen; Xingwei Wang; Yuhai Zhao; Bo Yi; Qiang He; Yingyou Wen	P1-3B-74
14:00–14:15	**DM734 Beyond Visual Encoder Fine-tuning: A Generalizable Data Mining Paradigm for Multimodal Chinese Cued Speech Recognition** Ling Feng; Bu Zhong; Jianglun Wu; Liu Li; Francis Chi Moon Lau; Donglong Chen; Yupeng Li	P1-3B-75
14:15–14:30	**DM773 FreshRetailNet-LT: A Stockout-Annotated Censored Demand Dataset for Latent Demand Recovery and Forecasting in Fresh Retail** Yangyang Wang; Jiawei Gu; Haoran Li; Li Long; Xin Li; Li Shen; Zhouyu Fu; Xiangjun Zhou; Xu Jiang	P1-3B-76
14:30–14:45	**DM790 PPGFlowECG: Latent Rectified Flow with Cross-Modal Encoding for PPG-Guided ECG Generation and Cardiovascular Disease Detection** Xiaocheng Fang; Jiarui Jin; Haoyu Wang; Che Liu; Jieyi Cai; Yujie Xiao; Guangkun Nie; Bo Liu; Shun Huang; Hongyan Li; Shenda Hong	P1-3B-77
14:45–15:00	**DM835 In-Hospital Stroke Risk-State Classification from PPG-Derived Hemodynamic Features** Jiaming Liu; Cheng Ding; Jian Wu; Hongxia Xu; Daoqiang Zhang	P1-3B-78
15:00–15:15	**DM996 Sheaf-PAFPN: Vector-Valued Sheaf Theory for Robust Sonar Target Detection** Xin Zhou; Shangfang Yu; Luming Li; Bo Ning	P1-3B-79
15:15–15:30	**DM1477 FinRED: An Expert-Guided Benchmark Generation and Evaluation Framework for Financial LLM Red-Teaming** Dae-Young Park; Chaeyun Kim; Junghwan Kim; Jinyoung Jeong; Eunji Song; Yongtaek Lim; Minwoo Kim	P1-3B-80

Session S1 Research Track · Foundations, anomaly detection and graph methods

Session Chair: Yuan Sui (Shenyang Aerospace University) 15:50–18:00 VIP Room

15:50–16:00	**DM230 Theoretical Grounds for Popularity Bias in Two-Tower Models Trained with Cosine-Based Loss** Andrey Atamanyuk	P2-2A-1
16:00–16:10	**DM334 Differentiable Interval Bottlenecks for Interpretable Anomaly Detection in Numerical Data** Lamine Diop; Marc Plantevit	P2-2A-2
16:10–16:20	**DM829 When Marginals Do Not Change: Sparse Signed-Kernel Detection for Hidden Dependence Anomalies** Bilong Wang; Xu Song; Xuechao Zhou; Zewen Lv	P2-2A-3
16:20–16:30	**DM953 Isolation-based Spherical Ensemble Representations for Tabular Anomaly Detection** Yang Cao; Sikun Yang; Hao Tian; Kai He; Lianyong Qi; Ming Liu; Yujiu Yang; Hong-Kun Zhang	P2-2A-4
16:30–16:40	**DM1157 Deep Synchronisation-based Clustering** Lena G. M. Bauer; Peter Salah; Pascal Weber; Anna Beer; Christian Böhm; Yllka Velaj; Claudia Plant	P2-2A-5
16:40–16:50	**DM1188 Scalable Density-based Clustering via Density-aware Propagation on Approximate kNN Graphs** Yingtao Zheng; Hugo Phibbs; Ninh Pham	P2-2A-6
16:50–17:00	**DM1271 Large-Scale Bayesian Tensor Reconstruction via Approximate Message Passing** Bingyang Cheng; Zhongtao Chen; Yichen Jin; Hao Zhang; Chen Zhang; Edmund Yin Mun Lam; Yik-Chung Wu	P2-2A-7
17:00–17:10	**DM1734 HiPACC Tree: A Probabilistic Approach for Hierarchical Quantification** José Gilberto Barbosa de Medeiros Júnior; Rafael da Costa Silva; Ricardo Cerri; Gustavo Batista; Diego Furtado Silva	P2-2A-8
17:10–17:20	**DM1825 Adaptive Multi-Branching for Shallow Decision Tree Induction** Hanul Park; Jeonghoon Choi; Juseong Kim; Sanghun Sel; Giltae Song	P2-2A-9
17:20–17:30	**DM750 VulRel-RGCN: Vulnerability-Relation-Aware Graph Neural Network for Cross-Dataset Reentrancy Detection in Smart Contracts** Jinbo Song; Kun Hao; Shijie Chai	P2-2A-10
17:30–17:40	**DM1789 RT-GNN: A Graph Neural Network based on Node Risk-awareness and Transfer Strategies** Longjie Li; Ni Wang; Bowen Zhang; Buyu Wang; Jianjun Cheng	P2-2A-11
17:40–17:50	**DM495 Poisson-Gamma Dynamical Systems with Time-varying Transition Dynamics** Jiahao Wang; Yijun Wang; Nan Fang; Sikun Yang	P2-2A-12

Session S2 Research Track · Foundations, ML/DL and statistical methods

Session Chair: Wenhao Li (Tongji University) 15:50–18:00 Paris

15:50–16:00	**DM374 Solving Maximum Strong Triadic Closure and Cluster Deletion by Integer Programming** Andrea D'Ascenzo; Fabrizio Rossi; Stefano Smriglio	P2-2A-13
16:00–16:10	**DM437 Mining Input-Inherent Context: A Parameter-Free Kernel Attention Mechanism for CNNs** Yile Chen; Zeyuan Lin; Yawen Chen; Jian Chen; Zeyi Wen; Jin Huang	P2-2A-14
16:10–16:20	**DM657 Graph-Coupled Causal Bayesian Optimization** Mohammad Ali Javidian	P2-2A-15
16:20–16:30	**DM828 One-versus-rest Worker Modeling-based Label Completion for Crowdsourcing** Chengjun Wang; Boyi Yang; Liangxiao Jiang; Shanshan Si	P2-2A-16
16:30–16:40	**DM1486 Sliding Window Attention Training for Efficient Large Language Models** Zichuan Fu; Guojing Li; Yejing Wang; Xian Wu; Yefeng Zheng; Yingying Zhang; Derong Xu; Xuetao Wei; Tong Xu; Xiangyu Zhao	P2-2A-17
16:40–16:50	**DM1850 Structural Conditional Independence Test via Neural Quantile Resolution** Khoa Nguyen; Bao Duong; Thin Nguyen	P2-2A-18
16:50–17:00	**DM2063 OTDE: Optimal Transport-Based Distance Estimation for High-Dimensional Approximate Nearest Neighbor Search** Xinran Ma; Chuan Zhou; Feiyu Han; Zhaoqi Zhou; Guoliang Li; Zhiming Ma	P2-2A-19
17:00–17:10	**DM2095 Rethinking Impurity Measures: Curvature as the Hidden Driver of Split Selection in Streaming Decision Trees** Maciej Jaworski; Leszek Rutkowski; Piotr Duda	P2-2A-20
17:10–17:20	**DM1154 Learning Sparse Decision Trees via Transformer Variational Auto-Encoders** Giacomo Fidone; Alessio Cascione; Riccardo Guidotti	P2-2A-21
17:20–17:30	**DM1328 Interval-valued SHAP in Tree-Based Models** Chenrui Zhu; Vu-Linh Nguyen; Marie-Hélene Masson; Sébastien Destercke	P2-2A-22
17:30–17:40	**DM1428 Entropic Flow Network for Bayesian Network Structure Learning** Jiahui Wang; Mingheng Jiao; Linchao Zhao; Kun Yue	P2-2A-23
17:40–17:50	**DM408 FADTI: Fourier and Attention Driven Diffusion for Multivariate Time Series Imputation** Runze Li; Hanchen Wang; Wenjie Zhang; Binghao Li; Yu Zhang; Xuemin Lin; Ying Zhang	P2-2A-24

Session S3 Research Track · Heterogeneous data mining and multimodal learning I

Session Chair: Zhaoxia Wang (Singapore Management University) 15:50–18:00 London

15:50–16:00	**DM709 Multi-Table Entity Matching via LLM-Synthesized Supervision and Semantic-Aware Scheduler** Jiaxiang Chen; Derong Shen; Wenzhou Dou; Hang Cui	P2-2A-25
16:00–16:10	**DM1080 MAB-LDA: Multi-Armed Bandit Guided Gibbs Sampling for Unsupervised Aspect Discovery** Siu Hin Ng; Yung-Chun Chang; Chao-Lin Liu; Wei-Yun Ma; Wen-Lian Hsu	P2-2A-26
16:10–16:20	**DM1492 Collapse-Aware Dynamic Adversarial Domain Adaptation for Cross-City Spatiotemporal Prediction** Haozhe Yu; Sirui Feng; Keshi Gong; Zihao Yang; Yiying Li; Hongting Niu	P2-2A-27
16:20–16:30	**DM492 Toward Multimodal Graph foundation model: a spectral based approach** Zhengyu Wu; Xu Wang; Hongchao Qin; Xunkai Li; Guang Zeng; Rong-Hua Li; Guoren Wang	P2-2A-28
16:30–16:40	**DM770 HARLM: Heterogeneous Association-aware and Reinforcement Learning for Multiplex Influence Maximization** Dongming Chen; Jiaping Si; Xin Zou; Dongqi Wang	P2-2A-29
16:40–16:50	**DM444 From Discrete Waypoints to Continuous Coordination: Spatio-Temporal Trajectory Mining for Multi-Agent Cooperative Pursuit** Mai-Kao Lu; Yutong Liu; Linghe Kong; Guihai Chen	P2-2A-30
16:50–17:00	**DM786 Reliability-aware Robust Fine-Grained Cross-Modal Semantic Correlation Mining and Representation Learning under Noisy Correspondence** Yuxuan Li; Meiyu Liang; Yawen Li; Zhe Xue; Guanhua Ye; Peining Li; Kangkang Lu	P2-2B-31
17:00–17:10	**DM803 Graph-Guided LLM Reasoning for Incident Prediction Over Multi-Source Data Streams** Xiyu Qiao; Xiangmin Zhou; Wenzhou Dou; Hua Wang; Yanchun Zhang; Zahir Tari	P2-2B-32
17:10–17:20	**DM1629 GRASP: Authority-Grounded Structural Mining for LLM Reasoning over a Cybersecurity HIN** Zijing Xu; Tiancheng Hu; Yangyang Wang; Jiahao Cao; Mingwei Xu	P2-2B-33
17:20–17:30	**DM400 BridgeSQL: Bridging the Synthesis-Execution Gap in Text-to-SQL with Execution-Grounded Data Curation** Yin Zhu; Yifu Liu; Teng Cao; Bin Yang	P2-2B-34
17:30–17:40	**DM2071 SCENARIODIFF: A Scenario-level Guidance Framework for Multimodal Time Series Forecasting** Tuan-Binh Tran; Dat Nguyen Cong; Duc-Trong Le; Thanh Trung Huynh; Tung Kieu	P2-2B-35
17:40–17:50	**DM762 Multi-Scale Guided Diffusion-Enhanced Graph Learning for Multimodal Recommendation** Chentong Yu; Shunmei Meng; Qianmu Li; Xinyuan Gao; Jiaming Yang	P2-2B-36

Session S4 Research Track · LLM-driven data mining and novel applications I

Session Chair: Liang Wu (Nokia) 15:50–18:00 Beijing

15:50–16:00	**DM1801 Lightweight Graph-Free Condensation With MLP-Driven Optimization** Fuxin Yu; Xin Zheng; Yi Li; Yanqing Guo; Xikun Zhang; Jeffrey Chan; Feng Xia	P2-2B-37
16:00–16:10	**DM1042 Uncertainty-aware Dependency-based Anomaly Detection with TabPFN** Sha Lu; Jixue Liu; Stefan Peters; Thuc Duy Le; Yongzheng Xie; Lin Liu; Jiuyong Li	P2-2B-38
16:10–16:20	**DM242 RIVER: Reverse Inference Via Effect Reconstruction for Perturbation Target Identification** Jiaxin Hu; Xiaoning Qi; Limeng Tian; Jie Yan; Nian Liu; Xin Li	P2-2B-39
16:20–16:30	**DM296 HISR: Hierarchical Invariant Sketch Resolution for Adaptive Network Traffic Measurement** Chenye Yang; Shuwang Xu; Lina Wang; Yufei Hou; Xi Ye	P2-2B-40
16:30–16:40	**DM471 Distribution Enhanced Stock Price Forecasting using Endogenous and Exogenous Shift Calibration** Shurui Wang; Wenbo Yan; Ying Tan	P2-2B-41
16:40–16:50	**DM889 HC-RAG: Evidence-Centric Retrieval-Augmented Generation over Heterogeneous Financial Filings** Siyuan Chen; Huaye Tan; You Li; Jiajun Liang; Wei Liu	P2-2B-42
16:50–17:00	**DM1873 Learning to Model Optimization Problems from Solver Outcomes** Runda Guan; Xiangqing Shen; Jiajun Zhang; Yifan Zhang; Jian Cheng; Rui Xia	P2-2B-43
17:00–17:10	**DM1966 FactorEngine: A Program-level Knowledge-Infused Factor Mining Framework for Quantitative Investment** Qinhong Lin; Ruitao Feng; Yinglun Feng; Zhenxin Huang; Yukun Chen; Zhongliang Yang; Linna Zhou; Binjie Fei; Jiaqi Liu; Yu Li	P2-2B-44
17:10–17:20	**DM2206 Capturing Coordinated Propagation Signals via Hypergraph Contrastive Learning for Fake News Detection** Siqi Wei; Bin Wu	P2-2B-45
17:20–17:30	**DM252 Trust-But-Verify: Poisoning-Resilient Locally Private Graph Learning Protocols** Longzhu He; Li Sun; Hao Peng; Ruijie Wang; Raymond Chi-Wing Wong; Sen Su	P2-2B-46
17:30–17:40	**DM1714 Physics-Guided Temporal Causal Discovery under Distribution Shift** Shenmeng Chen	P2-2B-47
17:40–17:50	**DM1970 Lesion-Aware Attention for Mammography Segmentation with Heterogeneous Supervision** Di Dai; Bo Liu; Liwei Wang	P2-2B-48
17:50–18:00	**DM1523 CAGER: Class-Aware Graph Edge Reweighting for Short Text Classification** Yeongwook Yang; Hong-Jun Jang; Byoungwook Kim	P2-3C-82

Session S5 Research Track · Modeling, recommendation and LLM methods

Session Chair: Huachi Zhou (The Hong Kong Polytechnic University) 15:50–18:00 Madrid

15:50–16:00	**DM313 Preference-Driven Contrastive Learning for Bundle Recommendation** Can-Ming Cui; Wu-Dong Xi; Xing-Xing Xing; Wei Wan; Jie-Ying Hu; Chang-Dong Wang; Hui-Yu Zhou	P2-2B-49
16:00–16:10	**DM463 CaST-POI: Candidate-Conditioned Spatiotemporal Ranking for Next POI Recommendation** Zhenyu Yu; Chunlei Meng; Yangchen Zeng; Mohd Yamani Idna Idris; Jihong Guan; Shuigeng Zhou	P2-2B-50
16:10–16:20	**DM483 Causal Masking Lowers Intrinsic Dimension in Full-Vocabulary Sequential Recommendation: Evidence from a Single-Variable Attention Ablation** Ziren Zhou; Jiahao Song; Quanjia Xiao; Bo Xiong	P2-2B-51
16:20–16:30	**DM565 Filling the Knowledge Gap: LLM-Authored Rules and Rule-Induced Graphs for Anomaly Detection** Suxue Ma; Xuexiong Luo; Shan Xue; Jian Yang; Jia Wu	P2-2B-52
16:30–16:40	**DM566 DAC-Agent: Decoupling Dominant Patterns and Residual Interests via Neural-Agentic Collaboration** Yuhao Fang; Zherui Yang; Changdong Wang	P2-2B-53
16:40–16:50	**DM638 MemRec: Atkinson-Shiffrin Memory-Guided Course Recommendation with Large Language Models** Shiwei Shi; Yanting Zhang; Yongquan Wan; Cairong Yan	P2-2B-54
16:50–17:00	**DM1212 Local Bayes Advantage for Selective Retrieval in Tabular In-Context Learning** Yangming Yue; Shengwen Luo; Sanchao Liu; Wenyu Ye; Ke Xiao; Ye Li	P2-2B-55
17:00–17:10	**DM1269 ExSBR: Enhancing Session-based Recommendations with Insightful Explanations via Self-Refinement Prompting** Hong Su; Raymond Chi-Wing Wong; Philip S. Yu; Sean Sihong Xie; Li Sun	P2-2B-56
17:10–17:20	**DM2183 Temporal Anomalous Community Detection in Agent Memory** Liming Xiang; Jing Feng; Hongchao Qin	P2-2B-57
17:20–17:30	**DM1489 Neuro-Symbolic Reasoning for Generalizable and Interpretable Zero-Shot Learning** Huaxing Zhao; Xingcheng Fu; Xueyan Liu; Minglai Shao; Xianxian Li; Dongran Yu	P2-2B-58
17:30–17:40	**DM544 HOM-Quant: Higher-Order Moment-Driven Mixed-Precision Quantization for Large Language Models** Yuhua Chen; Xiaofeng He	P2-2B-59
17:40–17:50	**DM713 Hint-Conditioned Knowledge Tracing: A Causal-Inspired View of Context-Dependent Hint Usage** Shuyi Pan; Wei Chen; Peilin Zhan; Lihong Wu; Ruichu Cai	P2-2B-60
17:50–18:00	**DM1581 GRES: Correlation-Aware One-Shot Pruning of LLMs across Granularities** Lu Sun; Jiayang Liu; Rui Wen	P2-2B-61

Session S6 Research Track · Systems, platforms and cyber-physical intelligence

Session Chair: Jiaqi Zhu (National University of Singapore) 15:50–18:00 Kuala Lumpur

15:50–16:00	**DM863 Majority-Guided Disentangled Latent Distillation for Imbalanced Time Series Classification** Chuanhang Qiu; Anthony Bagnall	P2-2B-62
16:00–16:10	**DM1112 SHAPE: Spatial Hyperbolic-Embedding Augmented Pretraining for Estimated Time of Arrival on Obfuscated Trajectories** Ruopu Li; Yong Chu; Kai Yang; James Jianqiao Yu; Lixia Wu; Xun Zhou	P2-2B-63
16:10–16:20	**DM1678 Hot-Start Graph Ensemble Learning: Tackling Large Networks with Shared Initialization and Multi-Branch Diversification** Jiajun Shen; Yufei Jin; Xingquan Zhu	P2-2B-64
16:20–16:30	**DM892 FedSAC: Summary-Driven Adaptive Clustered Federated Learning under Mixed Drift and Partial Participation** Zhikai Yang; Yaping Liu; Shuo Zhang; Dingyu Yan; Ziqi Wang	P2-2B-65
16:30–16:40	**DM994 FedMOR: Towards Responsible Federated Recommendation via Controllable Personalized Multi-Objective Learning** Qingqian Guan; Dianer Yu; Shangkun Liu; Wei Wang; Huan Huo; Jianli Zhao	P2-2B-66
16:40–16:50	**DM1035 PB-TriHyper: Granularity-Aware Generated Personalized Federated Learning via Parameter-Block Routing** Guohao Zhang; Xi Zhou; Yi Wang; Yupeng Ma; Zhengdong Luo; Baoquan Wang; Yunfei Han	P2-2B-67
16:50–17:00	**DM1046 Estimating Inconsistency Response Surfaces under Uncertainty in Cyber-Physical System Development** Johannes Mäkelburg; Tim Schwabe; Maribel Acosta	P2-2B-68
17:00–17:10	**DM1413 OFS: Overlapped Feature Synthesis for Communication-Efficient Federated Learning** Yang Zhou; Yuhao Zhou; Shujian Li; Qing Ye; Jiancheng Lv	P2-2B-69
17:10–17:20	**DM1560 NeutronMP: Multi-Model Parallelism for Breaking Synchronization Barriers in Distributed GNN Training** Chunyang Li; Xin Ai; Yanfeng Zhang	P2-2B-70
17:20–17:30	**DM1771 Fed-RAP: Reliability-Aware Prototype Regulation for Incomplete Multimodal Federated Learning** Jinyuan Li; Zhe Xue; Yawen Li; Guanhua Ye; Yuanqiang Cai; Weifeng Gong; Yueying Wang; Shilong Ou	P2-2B-71
17:30–17:40	**DM2150 LD-Leiden: Local Parallel Community Detection in Large Dynamic Networks** Grigoriy Bokov; Aleksandr Konovalov; Anna Uporova; Stanislav Moiseev; Ivan Safonov; Alexander Radionov	P2-2B-72
17:40–17:50	**DM2045 RFTF: Reinforcement Dynamic Client Optimization with Multi-scale Temporal Feature Decoupling for Federated Time Series Forecasting** Zhenhui Pan; Junping Du; Zhe Xue; Guanhua Ye; Yingxia Shao; Zeli Guan; Jia Wang	P2-3A-1
17:50–18:00	**DM1958 Physics-Preserving Latent Compression for Zero-Shot Resolution Transfer in 3D Turbulence** Yilong Dai; Yiming Sun; Yiheng Chen; Ziyi Wang; Shengyu Chen; Xiaowei Jia; Runlong Yu	P2-3A-2

Session S7 Research Track · ML/DL and statistical methods

Session Chair: Yujun Yan (Dartmouth College) 15:50–18:00 Seoul

15:50–16:00	**DM228 Reference-Calibrated Residual Auditing for Backdoor Inspection in Time-Series Forecasting** Jian Liu; Pengzhi Zhong; Tianshuo Wei; Chenbin Zhang; Maolin Wang	P2-3A-3
16:00–16:10	**DM730 DSRG: Unified Retrosynthesis Prediction via Differentiable Substructure Retrieval and Generative Feedback** Chaopeng Guo; Haoyang Ma; Xinyi Zhang; Jie Song	P2-3A-4
16:10–16:20	**DM778 Explainable Uncertainty Estimation for Reliable Medical AI** Li Rong Wang; Jamie Duell; Xinran Xu; Thomas C. Henderson; Yu Yue Hew; Pik Wan Erica Chiang; Xiao Wei Al'star Ang; Bingwen Eugene Fan; Xiuyi Fan	P2-3A-5
16:20–16:30	**DM890 Prior-Calibrated Energy Gating for Knowledge Tracing with Multimodal Semantic Priors** Zhiyu Chen; Jing Xiao	P2-3A-6
16:30–16:40	**DM915 Diffusion Optimized Social Prompt: Adapting Pre-trained Recommenders for Cold-start Users** Zhenyu Wu; Jiadong Sun; Cheng Wan; Kun Zheng; Jinpeng Chen; Liwei Huang	P2-3A-7
16:40–16:50	**DM1337 FedDual: Robust Federated Learning under Compound Label Corruption and Class Absence** Xinyi Lu; Jiajia Sun; Wenhai Wan; Tianze Liu; Shao-Yuan Li; Sheng-Jun Huang; Songcan Chen	P2-3A-8
16:50–17:00	**DM1582 Building Privacy-Protected and Interpretable Model Surrogates on Synthetic Data** Francesca Naretto; Rami Haffar; Josep Domingo-Ferrer	P2-3A-9
17:00–17:10	**DM1791 Domain Bridging: Enabling Adaptation without Peeking at Target Data** Sihan Xia; Jing Li; Yuanben Zou; Ivor Tsang; Yew Soon Ong	P2-3A-10
17:10–17:20	**DM1991 GILoRA: Gradient Interference-Guided LoRA for Mitigating Knowledge Forgetting** Geyuan Zhang; Xiaofei Zhou; Gaopeng Gou; Gang Xiong	P2-3A-11
17:20–17:30	**DM2138 Enriched Dual-View Learning from Crowds** Zhenguo Shi; Huan Zhang	P2-3A-12
17:30–17:40	**DM1751 MissGNN: Missingness-Guided Graph Neural Network for Feature- and Sample-Aware Imputation** Zhongyi Yu; Zhenghao Wu; Shuhan Zhong; Weifeng Su; Amelie Chi Zhou; S.-H. Gary Chan; Chul-Ho Lee; Weipeng Zhuo	P2-3A-14
17:40–17:50	**DM681 PPDL: A Real-world Industrial User Retention Ratio Forecasting Framework Integrating Physical Priors with Deep Learning** Zibo Zhao; Zhengxiong Guan; Chaoli Zhang; Linyuan Geng; Xuanbing Zhu; Zhonglong Zheng; Fan Wu	P2-3A-15

Session S8 Applied Track · Finance, security and digital platforms

Session Chair: Yuncheng Wu (Renmin University of China) 15:50–18:00 Rome

15:50–16:00	**DM1707 Event-Driven Causal Discovery for Root Cause Analysis in Semiconductor Fabrication Data Center** Juhyeon Kim; Heewon Lee; Jiwon Jang; Youngbin Park; Hyunwoo Park	P2-3A-16
16:00–16:10	**DM1795 M3-HCF: Multi-Temporal Multi-Treatment Multi-Outcome Hierarchical Causal Framework for Online Games** Minghao Chen; Wentao Mo; Yi Zeng; Zhenfeng Liang	P2-3A-17
16:10–16:20	**DM302 Large Language Model-Guided Hierarchical Graph Neural Network for Interpretable Brain Network Analysis in Alzheimer's Disease** Zhongyang Wang; Xinlei Wang; Luxuan Qu; Keyan Cao	P2-3A-18
16:20–16:30	**DM309 Training-Free Normal-Support Score Calibration for Frozen Vision-Language Anomaly Detection** Junjie Liu; Jingnan Wang; Boqiang Zhang; Kunyu Li; Lichao Zhang	P2-3A-19
16:30–16:40	**DM627 PIGS: Sparse-View Urban Asset Mining with Pretrained Geometry and Promptable Segmentation** Boyang Li; Zuan Gu; Tianhan Gao	P2-3A-20
16:40–16:50	**DM880 Rank-Aware Watermark for Large Language Models** Lalarukh Haseeb Akhtar; Jipeng Qiang	P2-3A-21
16:50–17:00	**DM911 CAST: A Cross-Asset State-Space Trading System for Drawdown Control in Stock Markets** Yu Peng; Matloob Khushi; Josiah Poon	P2-3A-22
17:00–17:10	**DM1235 Unsupervised State Detection with Entropy Regularization for Time Series Data with Application to Virtual AI Teacher** Chufei Yan; Yiyan Lv; Shaoyin Liu; Yanli Meng; Yulei Wang	P2-3A-23
17:10–17:20	**DM1341 Phishing URL Detection in webOS Browser with Differentiable Fuzzy-Transformer** Jaeil Park; Haerin Byeon; Sung-bae Cho	P2-3A-24
17:20–17:30	**DM1385 Towards Sustainable and Scalable AutoML for Data Streams: A Multi-Metric Benchmarking Study** Ali Maharramov; Radwa El Shawi	P2-3A-25
17:30–17:40	**DM689 BioDistil: Knowledge-Guided Agentic Distillation of Biomedical Question-Answering Corpora for Large Language Models** Meng Xiao; Xunxin Cai; Qingqing Long; Chengrui Wang; Yuanchun Zhou; Hengshu Zhu	P2-3A-26
17:40–17:50	**DM1447 Adaptive Bidding via In-Context Reinforcement Learning for Non-Stationary Auctions** Akhil Kandregula; Saikrishna Sudarshan; Abhirup Mondal; Sanjay Agrawal	P2-3A-27
17:50–18:00	**DM1763 ControBench: An Interaction-Aware Benchmark for Controversial Discourse Analysis on Social Networks** Thanh Thuy Ta; Jiaqi Zhu; Xuan Liu; Shang Lin; Reihaneh Rabbany; Guillaume Rabusseau; Lihui Chen; Yilun Zheng; Sitao Luan	P2-3A-28

Session S9 Applied Track · Real-world AI in finance, healthcare and industry I

Session Chair: Yanfeng Zhang (Northeastern University) 15:50–18:00 Berlin II

15:50–16:00	**DM741 Heterogeneous Tabular Self-Supervised Transformer for Asymmetric Data Regime in Engineering: Case Study on Bridge Seismic Vulnerability Assessment** Cameron Heng; Benedict Wong; Kota Murakami; Julia C. Lensing; Marc O. Eberhard; Jeffrey W. Berman; John Y. Choe	P2-3A-29
16:00–16:10	**DM1614 Improved Genomic Prediction on Japanese Brown Cattle Tosa Pedigree via Dimensionality Reduction** Shigenobu Mori; Taichi Kiwaki; Eiji Kobayashi; Aisaku Arakawa; Mika Oe; Taishi Chikamori; Kazuki Hamada; Arisa Yamaguchi; Kazutsugu Matsukawa	P2-3A-30
16:10–16:20	**DM1874 TRAE: Trustworthy Automated ESG Annotation via Multi-Agent Consensus and Confidence Assessment** Jaeyoung Lee; Misuk Kim	P2-3A-31
16:20–16:30	**DM1878 RAIL: Adapting Generative Adversarial Imitation Learning for User Feedback Simulation in OCPC** Leping Zhang; Xiao Zhang; Zhaocheng Du; Yichao Wang; Gang Wang; Jun Xu	P2-3A-32
16:30–16:40	**DM1957 Beyond Canonical Features: Enriching and Systematically Evaluating an Expert Feature Space for Just-in-Time Software Defect Prediction** Yihan Liu; Liyan Song; Xin Yao	P2-3A-33
16:40–16:50	**DM2015 MARCUS: Missing-Aware Region Representation with Contextual Urban Signals for Rent Prediction** Chenya Huang; Bin Liang; Zhidong Li; Yuxi Lu; Kunqi Li; Justin Wang; Fang Chen	P2-3A-34
16:50–17:00	**DM2019 Verifiable Privacy-Preserving Set Query** Jinyi Zhu; Zhicheng Li; Jian Xu	P2-3A-35
17:00–17:10	**DM743 Learning When to Personalize: Query-Type-Aware Playlist Generation Deployed at Scale** Fedor Buzaev; Rinat Mullakhmetov; Roman Bogachev; Ilya Sedunov; Oleg Pavlovich; Kamil Mazitov; Mariia Makarova; Evgeny Perets; Daria Pugacheva; Ivan Sukharev	P2-3A-36
17:10–17:20	**DM2025 FlightDiff: Prediction-Guided Diffusion Rectification for Robust Flight-Parameter Forecasting** Linxuan Wang; Xinhai Chen; Bo Yang; Binglin Wang; Qinglin Wang; Jie Liu	P2-3A-37
17:20–17:30	**DM2055 CGSBR: Adaptive Cross-Source Gating for Cold-Start Sequential Bundle Recommendation** Weijun Xu; Zhongyu Ji; Qiang Xiao; Ming Yue; Yuming Ren; Chuanjiang Luo; Yong Li	P2-3A-38
17:30–17:40	**DM1199 Climate Transition Stress Testing for Corporate Credit Risk: A Replicable Data-Mining Pipeline Using ESG Risk Scores** Huynh Long Hung Nguyen; Alan Megargel; Rajesh Krishna Balan; Paul Robert Griffin	P2-3A-39

Main Day 2 · Saturday, November 14, 2026

Session L11 Research Track · Systems, platforms and time-evolving networks

Session Chair: Liyan Song (Harbin Institute of Technology) 13:30–16:10 Paris

13:30–13:45	**DM884 BAPQ: Bandwidth-Aware Structured Pruning and Adaptive Quantization for Fast Federated Learning** Lihao Yang; Jianxiong Guo; Jiandian Zeng; Zhiqing Tang; Tian Wang; Weijia Jia	P1-3C-81
13:45–14:00	**DM1079 Parameters vs. Context: TRACE Fine-Tuning for Robust Retrieval-Augmented Generation** Zhengchen Huang; Yundong Sun; Minrui Song; Shuanglong Yao; Ye Liu; Ji Chen; Xing Wang	P1-3C-82
14:00–14:15	**DM1515 Input-Adaptive Depth Routing in Pretrained Large Language Models with Mixture of Layers** Lu Sun; Rui Wen; Jiayang Liu; Jun Sakuma	P1-3C-83
14:15–14:30	**DM424 Task-Aware Federated Fine-Tuning for MoE-based Large Language Models** Tingqi Wang; Hongyu Ke; Haoxin Wang; Rafal Angryk; Zhipeng Cai	P1-3C-84
14:30–14:45	**DM645 Influence-Oriented Personalized Federated Learning** Yue Tan; Guodong Long; Jing Jiang; Chengqi Zhang	P1-3C-85
14:45–15:00	**DM780 FedWeave: Federated Parametric RAG for Multi-Evidence Reasoning** Yuxiang Wang; Yawen Li; Yongxin Tong; Zhilin Liang; Zimu Zhou; Zhe Xue; Qiang Yang	P1-3C-86
15:00–15:15	**DM1078 CbvFL: Communication-Budgeted and Verifiable Federated Learning for Educational Data Mining** Nan Qin; Yue Wang; Yuan Ji; Fangda Guo; Rongfang Bie; Xufeng Zhang; Shuang Liu; Yu Guo	P1-3C-87
15:15–15:30	**DM1545 AICAP: Intent-Centric Graph Analytics for Risk-Aware Atomic Cross-Chain Data Routing** Zhefeng Sai; Shiyuan Xu; Yuan Ji; Fangda Guo; Rongfang Bie; Yu Guo	P1-3C-88
15:30–15:45	**DM2023 A Carbon-Aware Serving Framework for AI Web Services** Yukun Wang; Chengzu Dong; Zongxi Li; Xingrao Ma; Aiting Yao; Jiawei Li	P1-3C-89
15:45–16:00	**DM2168 Leaderboard Manipulation: Poisoning LDP Frequent Itemset Mining at Minimal Cost** Zijian He; Leixia Wang; Bin Wang; Xiaochun Yang	P1-3C-90

Session L12 Research Track · Recommendation, adaptation and spatiotemporal modeling I

Session Chair: Yuan Sui (Kuaishou Technology) 13:30–16:15 London

13:30–13:45	**DM2129 FreqMAG: Magnitude-Aware Grouping and Alignment in Frequency Domain for Multivariate Time-Series Anomaly Detection** Lijun Sun; Shuai Zhang; Lanhao Li; Xin Xue; Haoyi Zhou; Jianxin Li	P1-3C-91
13:45–14:00	**DM379 MAGMA: Mamba with Adaptive Gated Modeling and Agent Denoising for Sequential Recommendation** Jun Hu; Yuan-Qing Wang; Wu-Dong Xi; Ling Huang; Pei-Yuan Lai	P1-3C-92
14:00–14:15	**DM758 TAST: Target-Anchored Structured Transfer for Cross-Domain Recommendation** Zixuan Yuan; Zongfu Zhang; Chang-Dong Wang; Ping-Hua Chen	P1-3C-93
14:15–14:30	**DM764 MechAdapt: Mechanism-Aware Selective Adaptation for Online Time Series Forecasting** Saumya Karunadhika; Ling Luo; Bastian Oetomo; Michele Discepola; Sally Gras; Uwe Aickelin	P1-3C-94
14:30–14:45	**DM815 MedRuleAgents: A Rule-Space-Grounded Multi-Agent Collaboration Framework for Clinical Therapy Recommendation** Nengjun Zhu; Xingyu Xi; Weihang Xu; Cao Jian; Shenghui Lan; Siji Zhu; Xiaosong Chen	P1-3C-95
14:45–15:00	**DM971 DeTTAM: Decoupled Test-Time Adaptation for Multimodal Recommendation** Jiayi Chen; Yi Li; Yanqing Guo; Jiapu Wang; Yue Yang; Jeffrey Chan; Ibrahim Khalil; Xin Zheng	P1-3C-96
15:00–15:15	**DM1067 DTG-RAG: Dual-Track Graph Retrieval-Augmented Generation for Zero-Shot Recommendation** Wei Lan; Shuo Li; Qingfeng Chen; Fucai Ke; Ziqi Xu; Ibrahim Khalil; Xin Zheng	P1-3C-97
15:15–15:30	**DM1140 SAGE: Semantic-Aware Tokenization with Ranking Guidance for Generative Recommendation** Meng Ma; Ding Yan; Bohan Li; Yuanyang Zhang; Chenhui Feng; Changjie Wang; Hua Dai; Haofen Wang	P1-3C-98
15:30–15:45	**DM1365 Beyond Static Temporal Structures: Discovering Temporal Periodicity for Sequential Recommendation** Rong Zhu; Wei Zhu; Lixing Yu; Kun Yue; Zhiwen Tang	P1-3C-99
15:45–16:00	**DM340 Temporal Memory-Aware Online Test-Time Adaptation on Dynamic Graphs** Bo Li; Xin Zheng; Ming Jin; Can Wang; Shirui Pan	P1-3C-100
16:00–16:15	**DM1804 Transparent Generalized Additive Time Series Forecasting at Transformer-Level Accuracy** Suan Lee; Jinho Kim	P1-2A-1

Session L13 Research Track · Foundations, causality and learning theory

Session Chair: Yu-Xuan Qiu (Beijing Institute of Technology, Zhuhai) 13:30–16:15 Kuala Lumpur

13:30–13:45	**DM337 Witnesses Explain Anomalies** Lamine Diop	P1-2A-2
13:45–14:00	**DM366 Performance Driven Domain-level Data Acquisition** Xinyan Han; Peng Cui	P1-2A-3
14:00–14:15	**DM474 HGPRA: Training-Dynamics-Aware Hypergraph Condensation via Progressive Representation Anchoring** Qi Luo; Jiaqi Zhang; Haide Zhao	P1-2A-4
14:15–14:30	**DM705 CurFlow: Curriculum Flow Matching for Imbalanced Tabular Classification** Tianjun Zhang; Zhidong Cao; Hongpeng Tian	P1-2A-5
14:30–14:45	**DM1161 Causal Explanations of Process Monitor Predictions** Tom Yaacov; Nathan Blake; Hana Chockler	P1-2A-6
14:45–15:00	**DM1234 Prediction-Powered Corpus Mining: Coverage-Valid Statistics from Scarce Labels** Jing Wang; Jie Shen; Amar Sra; Qiaomin Xie; Yiming Luo; Jeremy Weiss	P1-2A-7
15:00–15:15	**DM2081 SpecFit: Select Before You Train for Fourier-Feature Model Selection** Uyen Le; Thin Nguyen	P1-2A-8
15:15–15:30	**DM499 Reliable Sparse Circuit Mining: False Discovery Rate Control and Valid Post-Selection Inference for Language Model Behavior** Zhiyu Cheng; Fang Jin	P1-2A-9
15:30–15:45	**DM1439 GramMGT: Assessing and Hardening Machine-Generated Text Detectors with Train-Free Humanization** Feng Qian; Jipeng Qiang; Yi Zhu; Chaowei Zhang; Yan Liu; Yunhao Yuan; Lu Han	P1-2A-10
15:45–16:00	**DM1823 FlowPaint: High-Fidelity Text-Guided Multi-Mask Inpainting via Deterministic Flow Matching** Jiayi Lin; Zhiyong Wu; Aimin Yang; Peijian Zeng	P1-2A-11
16:00–16:15	**DM1060 Provably Feasible LLM Decoding for Combinatorial Optimization** Yang Liu; Chuan Zhou; Yancheng Chen; Shuai Zhang; Xixun Lin; Xiaoqing Wang	P1-2A-12

Session L14 Research Track · Heterogeneous graphs and multimodal intelligence

Session Chair: Xiaoqin Xie (Harbin Engineering University) 13:30–16:15 Seoul

13:30–13:45	**DM455 MACC-GNAS: Modality-Aware Cooperative Co-Evolutionary Graph Neural Architecture Search for Co-Exploitation Behavior Discovery** Sixuan Wang; Jiao Yin; Jinli Cao; Mingjian Tang; Yong-Feng Ge	P1-2A-13
13:45–14:00	**DM475 DiFA: Dual Evidence Fusion and Aggregation for Token-Level Text Anomaly Detection** Yanyu Qian; Pengcheng Weng; Yue Tan; Enguang Zuo; Yu Zhang; Yixin Liu	P1-2A-14
14:00–14:15	**DM625 Graph Data-Centric Evaluator for Test-Time GNN Performance Estimation** Huanchang Ma; Xin Zheng; Jianyu Li; Ming Yang; Ziqi Xu; Yu Zheng; Shirui Pan; Jian Gao	P1-2A-15
14:15–14:30	**DM628 ASSIST: Urban Region Embedding via Adaptive Separate-Shared Gate and Information-Statistics Optimization** Xunan Wei; Shuangyi Huang; Dingming Wu; Tsz Nam Chan	P1-2A-16
14:30–14:45	**DM666 Towards Cross-domain Graph Few-shot Class-incremental Learning** Jiacheng Chen; Jiazhen Chen; Sichao Fu; Zheng Ma; Zhifu Wang; Tao Peng; Weihua Ou; Xinrong Hu	P1-2A-17
14:45–15:00	**DM723 Subspace Adaptive Learning Framework for Trapezoidal Data Streams with Concept Drift** Botao Jiao; Yinan Guo; Kai Zhang; Shihui Liu	P1-2A-18
15:00–15:15	**DM2044 GEAR: From Dynamic Encoding to Dynamic Activation in Social Trajectory Prediction** Jiaheng Chen; Jiaxing Li; Leixia Wang; Jianan Ju; Tinghe Zhang	P1-2A-19
15:15–15:30	**DM1306 CoVEx: Connectivity-Constrained Gradient Explanation for GNN-based Vulnerability Detection** Xiang Li; Zhanyi Wang; Xiaoqian Jiang; Jing Zhang	P1-2A-20
15:30–15:45	**DM979 SIM:Subspace Interaction-based Method for Token-Level Text Anomaly Detection** Kehan Yan; Yue Tan; Qingfeng Chen; Shiyuan Li; Yu Zheng; Yixin Liu	P1-2A-21
15:45–16:00	**DM383 Subgraph Meta-Learning for Direction and Time Aware Transaction Anomaly Detection** Wangyue Li; Qizhou Chen; Yao Tong; Feng Zhu; Wei Deng; Xiaofeng He	P1-2A-22
16:00–16:15	**DM1474 Fraud Detection Model Through Global Structure and Local Substructure Feature Fusion** Xinzhi Wang; Tianyue Yin; Jiayu Guo; Nengjun Zhu; Hui Zhang	P1-2A-23

Session L15 Research Track · Machine learning, optimization and statistical methods

Session Chair: Huan Zhang (Zhengzhou University) 13:30–16:15 Rome

13:30–13:45	**DM1099 Positive-Negative Spherical Interpolation for Zero-Shot Composed Image Retrieval** Hongye Li; Xingming Liao; Jiaxiao Luo; Lianglun Cheng; Zhuowei Wang	P1-2A-24
13:45–14:00	**DM304 Smooth Reward Shaping via Normalized Softplus Functions for Reinforcement Learning** Nitsan Soffair; Gilad Katz	P1-2A-25
14:00–14:15	**DM605 Learning to Aggregate Rankings: A Self-Supervised Transformer for Kemeny Consensus** Yijun Jin; Simon Klüttermann; Chiara Balestra; Emmanuel Mueller	P1-2A-26
14:15–14:30	**DM1544 Zero-Sum Set Transformer Neural Processes** Zhenhuan Zhang; Junyu Xuan	P1-2A-27
14:30–14:45	**DM432 FedAsym: Modality Asymmetric Federated Cross Modal Representation Mining from Heterogeneous Image Text Data** Wenqi Xue; Yifan Zhu; Can Lin; Yuanjian Zhang; Zhonghong Ou; Meina Song	P1-2A-28
14:45–15:00	**DM575 Imputation as an Information Bottleneck: Direct Mask-Conditioned Forecasting for Missing Time Series** Ziqi Zhao; Run Xu; Qingjian Ni	P1-2A-29
15:00–15:15	**DM622 FoMo: Language-Aligned Learning for Zero-Shot and Few-Shot Tabular Inference** Van The Le; Trung Nghia Duong; Quang Dan Tran; Tien Thinh Nguyen; Nguyen Tu Duc Ngo; Thi Ha Yen Tang	P1-2A-30
15:15–15:30	**DM717 Too Sure to Be Safe: Model Calibration for Reliable Log Anomaly Detection** Bin Li; Dongdong Wang; Siyang Lu	P1-2B-31
15:30–15:45	**DM1894 DBM-Bid: Dual-Branch Modulated Bidding for Offline Constrained Auto-Bidding** Zijie Bian; Ningyuan Zhao; Yongxuan Lai; Fan Yang	P1-2B-32
15:45–16:00	**DM394 UniCom: A Unified Framework for Community Search and Detection via Transfer Learning** Yifan Zhu; Hanchen Wang; Wenjie Zhang; Alexander Zhou; Ying Zhang	P1-2B-33
16:00–16:15	**DM1949 ISO-UNet: A Climate-State Conditioned Regional Expert Network for Water Isotope Field Regression** Chonghao Qiu; Shiyuan Luo; Feng Zhu; Runlong Yu; Yiqun Xie; Xiaowei Jia	P1-2B-34

Session L16 Applied Track · Industrial, financial and decision intelligence

Session Chair: Xinqiang Xie (Dalian Maritime University) 13:30–16:10 Berlin I

13:30–13:45	**DM380 TriHead-GAN: A Generative Adversarial Network with Triple-Head Discriminator for Carbon Emission Time Series Generation** Zesen Wang; Lijuan Lan; Yonggang Li; Chunhua Yang	P1-2B-35
13:45–14:00	**DM682 Spacetime-GR: A Spacetime-aware Generative Model for Large-scale Online POI Recommendation** Haitao Lin; Zhen Yang; Jiawei Xue; Ziji Zhang; Luzhu Wang; Yikun Gu; Mingyang Yin; Minghao Liu; Wenbo Xie; Xin Li	P1-2B-36
14:00–14:15	**DM1061 Robust Convex Biclustering** Yunxia Lin; Haikang Li; Bentian Li; Haoyu Hu; Yujia Zhang; Zhaorui Zhong; Jipeng Qiang	P1-2B-37
14:15–14:30	**DM1107 DLRFusion: Degradation-Oriented Region Localization and Restoration for Infrared-Visible Image Fusion** Haotian Si; Yang Yang	P1-2B-38
14:30–14:45	**DM1144 Broadly Applicable Water Level Detection via Adaptive Distribution Prediction** Di Zhang; Fenfen Shan; Borong An; Jingyan Qiu; Jiali Mao	P1-2B-39
14:45–15:00	**DM1260 TUMTraf SCEM: Spatiotemporal Conflict Event Mining from Traffic Digital Twins with Contrastive Reasoning** Jiajie Zhang; Xingcheng Zhou; Walter Zimmer; Nenad Petrovic; Xiangzhong Liu; Leah Strand; Venkatnarayanan Lakshminarasimhan; Alois Knoll	P1-2B-40
15:00–15:15	**DM1336 Accuracy Is Not Service: A Decision-Aware Benchmark for Intermittent-Demand Forecasting** Joo Ern Chin; Shih-Fen Cheng; Aldy Gunawan	P1-2B-41
15:15–15:30	**DM1432 FraudBench: Protocol-Sensitive Benchmarking of Adversarial Robustness for Financial Risk Assessment** Xitong Zeng; Zhaoge Bi; Yitian Yang; Huaming Chen; Quan Z. Sheng	P1-2B-42
15:30–15:45	**DM1408 A Generation-to-Application Framework for Semantic ID Collision in Industrial Generative Recommendation** Shijia Wang; Da Guo; Qiang Xiao; Liwen Xiao; Yi Zhu; Dongjing Wang; Chuanjiang Luo; Yong Li	P1-2B-43
15:45–16:00	**DM1902 Breath-Dx: A Time Series Classification Benchmark for Disease Screening with eNose** Ivan Poddiakov; Ivan Kruzhilov; Galina Zubkova; Svetlana Erofeeva; Andrey Savchenko; Pavel Blinov	P1-2B-44

Session L17 Applied Track · Recommendation, security and operational intelligence II

Session Chair: Xinjian Luo (Shanghai Jiao Tong University) 13:30–16:10 Berlin II

13:30–13:45	**DM291 MuSeR: Scalable Long-sequence Recommendation with Multi-interest Modeling** Yongkang Fu; Beining Bao; Yu Jiang; Xiangyu Zhao; Hongyang Wei; Guangxing Chen; Zuodong Yang; Shantao Li; Zonggang Wu; Yuqi Lu; Shouke Qin; Hanmeng Liu; Maolin Wang	P1-2B-45
13:45–14:00	**DM557 Transition Path Diffusion for Protein Reactive Trajectories** Zehua Cheng; Wei Dai; Jiahao Sun	P1-2B-46
14:00–14:15	**DM2022 KPI-Aware Multimodal Anomaly Detection for 5G and Open RAN Telemetry** Chiman Salavati; Liang Wu; Kelly Wan; Mayank Darbari; Liangjie Hong	P1-2B-47
14:15–14:30	**DM2026 SemMark: Robust Large Language Model Watermarking via Semantic Chain-Binding** Zihao Qiang; Jipeng Qiang; Jifei Hao; Yi Zhu; Xiangyu Zhao; Zhu Sun	P1-2B-48
14:30–14:45	**DM2092 SpectraExpert: Expert-Like Reasoning Agent for Spectrum-Based Molecular Identification** Denghong Luan; Zaifan Lu	P1-2B-49
14:45–15:00	**DM2124 PortBench: A Dual-Protocol Benchmark for Compositional Numerical Reasoning in Port Operations** Hong Li; Xingming Liao; Ning Chen; Minghua Chen; Lianglun Cheng; Zhuowei Wang	P1-2B-50
15:00–15:15	**DM700 LDP-ETS: Event-Based Trajectory Synthesis under Local Differential Privacy** Yahong Chen; Jiawei Chen; Xiaoguang Li; Tao Wang	P1-2B-51
15:15–15:30	**DM1003 AMC-GNN: Adaptive Mixed-Curvature Graph Neural Networks for Fraud Detection** Mengmeng Yang; Yongying Guan; Zhenwei Ma; Dawei Cheng	P1-2B-52
15:30–15:45	**DM1995 Multi-Modal Causal Disentanglement for Multi-Domain Sequential Audio Recommendation** Yu Ren; Pengcheng Li; Weijun Xu; Hengzhong Zhou; Shufeng Ye; Qiang Xiao; Dongjing Wang; Chuanjiang Luo; Yong Li	P1-2B-53

Main Day 3 — Sunday, November 15, 2026

Session L18 Research Track · Novel applications and generative models

Session Chair: Tieying Li (East China Normal University) 13:30–15:30 Paris

13:30–13:45	**DM1813 When a High Score Is an Illusion: Certifying Genuine versus Repackaged Forecasting Skill** Pin Ni; Francesca Medda; Ramin Okhrati	P1-2B-54
13:45–14:00	**DM251 Timescale-Disentangled Generative Models of Protein Dynamics** Zehua Cheng; Wei Dai; Jiahao Sun	P1-2B-55
14:00–14:15	**DM392 ToDi: TextOmics-Guided Diffusion for Hit-like Molecular Generation** Hang Yuan; Chen Li; Wenjun Ma; Tadahiko Murata; Jiang Yuncheng	P1-2B-56
14:15–14:30	**DM749 KnowStroke: Prior-Guided Task-Decoupled Graph Learning for Joint Stroke Complication Prediction** Zengwei Zheng; Mingxuan Chen; Qi Ma; Xiao Zhu; Ze Cai; Jiayun Jin; Anchen Lin; Longxiang Shi; Jianhua Ma; Zhicai Chen; Binbin Zhou	P1-2B-57
14:30–14:45	**DM827 FlowShield: cryptocurrency anti-money laundering with transaction semantics parsing and fund flow tracking** Qishuang Fu; Andreas Deppeler; Joseph K. Liu; Yixin Liu; Shirui Pan; Qin Wang; Weiqing Wang; Tsz Hon Yuen	P1-2B-58
14:45–15:00	**DM897 Uncovering Vulnerabilities in Graph Fraud Detection Models Using Conditional Diffusion-Driven Conspiracy Attacks** Mengmeng Yang; Xin Liu; Kun Zhu; Dawei Cheng; Huaming Tian	P1-2B-59
15:00–15:15	**DM1130 PTSD: A Plug-and-Play Multi-Source Collaborative Self-Distillation for U-shaped Networks** Ziqi Ren; Ting Wang; Wing Ng; Xingfu Yan; Xing Tian; Jin Deng; Jianjun Zhang	P1-2B-60
15:15–15:30	**DM1786 Market-State-Aware Risk-Budgeted Distributional Residual Hedging for Option Hedging** Qiao Pan; Yu Gao; Lu Jin Wu	P1-2B-61

Session L19 Research Track · LLM-driven data mining and retrieval II

Session Chair: Hongchao Qin (Beijing Institute of Technology) 13:30–15:30 London

13:30–13:45	**DM2128 CASCADE: Constraint-Aware Scaffolded Decomposition for Logical Anomaly Detection** Jinchan Kim; Jinhee Im; Hyunsouk Cho	P1-2B-62
13:45–14:00	**DM646 Separating the Softmax Denominator Unlocks Prefix-Based Evidence Injection for Frozen LLMs** Zeqiang Wang; Xinyue Wu; Suparna De	P1-2B-63
14:00–14:15	**DM1074 Structure Attribute Seesaw: Conflict Aware Embedding Decoupling in Attributed Graph Clustering** Jing Fan; Zhenye Yang; Tao Wang; Kaimin Wei; Hongbo Gao; Peng Wang; Guomin Xiong; Jinpeng Chen	P1-2B-64
14:15–14:30	**DM1727 BoyueSQL: Knowledge-Graph-Grounded NL2SQL for Local Enterprise Database Querying** Haopeng Wang; Chengzu Dong; Weiqi Zhang; Jiaxing Shen	P1-2B-65
14:30–14:45	**DM1744 SocioAlign: Efficient Social Media User Simulation Via Target-Conditioned Behavioral Policy Learning** Feixiang Shu; Jiaxing Zheng; Conghui Zheng; Li Pan	P1-2B-66
14:45–15:00	**DM1896 Hierarchical Multi-view Embedding Transformation for Legal Case Retrieval** Junhao Zhang; Richong Zhang; Yifei Li; Zhijie Nie; Chenguang Hou	P1-2B-67
15:00–15:15	**DM362 Trojaning the Alignment: Stealthy Backdoor Attacks against Graph Foundation Models** Minhua Lin; Zhicheng Gao; Yilong Wang; Hanqing Lu; Xiang Zhang; Suhang Wang	P1-2B-68
15:15–15:30	**DM997 Efficient Manipulation of Directed Structural Graph Clustering via Triangle-Aware Indexing** Su Wang; Chuanyu Zong	P1-2B-69

Session L20 Research Track · Recommendation, adaptation and spatiotemporal modeling II

Session Chair: Jinyang Liu (Shanghai Jiao Tong University) 13:30–15:30 Beijing

13:30–13:45	**DM1736 FDER: Frequency-Decoupled Enhanced Retrieval for Long-term Time Series Forecasting** Yong Liu; Yufan Wang; Chang Fang; Wangqiu Zhou; Qi Song; Xiangyang Li	P1-2B-70
13:45–14:00	**DM364 TransDyn: Transformer-Driven Modeling of Resolution-Invariant Financial Temporal Dynamics Under Sampling-Induced Distribution Shift** Siyu Zhang; Yuyia Wu; Chang Zhou; Lianlei Shan	P1-2B-71
14:00–14:15	**DM1644 LQ-Rec: Late Quantization for Sequential Recommendation** Satoshi Koide; Yueqi Wang; Julian McAuley	P1-2B-72
14:15–14:30	**DM1111 MUSES: A Multi-source Unified Framework with LLM-based Semantic Gated Enhancement for Sequential Recommendation** Junqi Li; Jingwei Ma; Mingyang Zhong; Jiahui Wen	P1-2B-73
14:30–14:45	**DM1381 Empowering Compact LLMs with Fusion of Layer-wise Exits for Recommendation** Xurong Liang; Tong Chen; Quoc Viet Hung Nguyen; Jianxin Li; Xiangliang Zhang; Hongzhi Yin	P1-2B-74
14:45–15:00	**DM1570 Residual-Guided and Diversity-Aware Multi-Source Selection for Spatio-Temporal Transfer Forecasting** Zhiwen Liang; Yuanbo Xu; Hangtong Xu; Mijia Zhang; Dongming Luan; Lu Jiang; Pengyang Wang; Pengfei Wang	P1-2B-75
15:00–15:15	**DM1784 S2MEN: A Scale-Specialized Mixture-of-Expert Network for Time Series Forecasting** Yusen Wang; Qihe Huang; Haolong Xiang; Xiaolong Xu; Zhengyang Zhou; Lianyong Qi; Xuyun Zhang; Wei Fan	P1-2B-76
15:15–15:30	**DM1312 ALeSeC: Adaptive Lexico-Semantic Collaboration Enhanced Iterative Query Rewriting for Information Retrieval** Siliang Li; Chaofan Li; Yawen Li; Henry Nguyen; Zheng Liu; Yingxia Shao	P1-2B-77

Session S10 Applied Track · Scientific, industrial and enterprise AI

Session Chair: Zhenyu Yu (Fudan University) 13:30–15:30 Madrid

13:30–13:40	**DM1552 Graph-Constrained Gradient Boosting for Multi-Source Transport Incident Redundancy Detection** Kezhi Lu; Zihe Liu; Junyu Xuan; Ruimin Li; Jie Lu	P2-3A-40
13:40–13:50	**DM1680 Discover then Refine: Mode-Conditioned Scenario Forecasting for District Heating Demand** Malek Mahjoub; Vasile-Marian Scuturici; Marc Clausse; Jean-marc Petit	P2-3B-41
13:50–14:00	**DM1859 Action-Sensitive Intervention Mining for Grid-Interactive Power Electronics** Zian Guan; Zichen Zhou; Zhonggen Su	P2-3B-42
14:00–14:10	**DM1869 RadOT-Eval: Auditable Structured-Evidence Transport for Radiology Report Evaluation** Weixin Liu; Juming Xiong; Yang Li; Qingyuan Song; Susannah Rose; Murat Kantarcioglu; Bradley Malin; Zhijun Yin	P2-3B-43
14:10–14:20	**DM517 Learning from Imperfect Multi-source Estimates: Day-Ahead Regional Wind Power Forecasting in Evolving Systems** Yiyan Zhang; Cheng Chen; Guozhen Zhang; Ke Tang	P2-3B-44
14:20–14:30	**DM674 Source-reference Guided Selective Rectification for Source-free Time-series Classification** Wei Zhou; Hongye Li; Lei Zhou; Jianhang Ji; Bing Li; Wei Cui	P2-3B-45
14:30–14:40	**DM857 HyperCP: Hyperedge-Aware Conformal Prediction for Supply-Chain Forecasting** Shivansh Mishra; Vishal Jaishankar Pandey; Bagesh Kumar; Sahil Kumar; Ritik Kumar	P2-3B-46
14:40–14:50	**DM1149 FREIGHT-MNet: A Public Multimodal Benchmark for Cold-Start Freight OD Travel-Time Risk** Yuteng Zhang; Ashis Banerjee	P2-3B-47
14:50–15:00	**DM356 FSLNet: Episodic Few-Shot Adaptation for Industrial Recommender Systems** Maolei Huang; Shuhan Song; Huawei Cao; Ming Dun; Zhenlong Yuan	P2-3B-48
15:00–15:10	**DM381 A Multi-Resolution Multi-Domain Pre-Training Framework for Universal Traffic Forecasting** Zhouyang Liu; Jindong Han; Hao Wang; Xinyue Liu; Hui Gao; Dongsheng Li; Hao Liu	P2-3B-49

Session S11 Research Track · LLM-driven data mining and heterogeneous learning

Session Chair: Lianbo Ma (Northeastern University) 15:50–18:00 Paris

15:50–16:00	**DM932 MELD: Distilling Zero-Shot Priors of LLMs into Efficient Heterogeneous Models for Tabular Classification** Shutao Chen; Chunkai Zhang	P2-3B-50
16:00–16:10	**DM1017 Latency-Constrained Adaptive Query Planning for Multi-LLM Information Extraction** Nikita Anurov; Maxim Ryndin	P2-3B-51
16:10–16:20	**DM1055 From Prompt to Perturbation': An Adaptive Framework for Voice-Based Jailbreaks on Audio LLMs** Linghan Huang; Bo Li; Huaming Chen; Kim-Kwang Raymond Choo	P2-3B-52
16:20–16:30	**DM1198 Beyond Tokenization: Direct Timestep Embedding and Contrastive Alignment for Time-Series Question Answering** Yafeng Wu; Huu Hiep Nguyen; Thin Nguyen; Hung Le	P2-3B-53
16:30–16:40	**DM1339 FinShield: LLM-Powered Deployable Financial Fraud Detection** Teng Liu; Chengfeng Qiu; Kaifeng Wei; Xiubo Liang	P2-3B-54
16:40–16:50	**DM1833 L-GRAFT: GraphRAG-Guided Communication Topology Learning for Multi-Agent Reinforcement Learning** Yi Shen; Jiaxu Li; Yahong Han	P2-3B-55
16:50–17:00	**DM488 CoMAG: Context-aware Modality-Topology Co-Alignment for Multimodal Attributed Graphs** Sirui Zhang; Xu Wang; Zhengyu Wu; Xunkai Li; Hongchao Qin	P2-3B-56
17:00–17:10	**DM724 Zero-shot Generalizable Graph Anomaly Detection with Mixture of Riemannian Experts** Xinyu Zhao; Qingyun Sun; Jiayi Luo; Xingcheng Fu; Jianxin Li	P2-3B-57
17:10–17:20	**DM2000 ATLAS: Adaptive Attribute-Aware Post-Hoc Alignment of Knowledge Graph Embeddings** Duygu Ekinci; N'Dah Jean Kouagou; Mohamed Ahmed Sherif; Axel-Cyrille Ngonga Ngomo	P2-3B-58
17:20–17:30	**DM1209 SCOPE: Evidence-Guided Sufficient Context Mining for Repository-Level Program Repair** Tianzuo Qin; Da Zheng; Chuan Wu	P2-3B-59
17:30–17:40	**DM1345 TRACER: An LLM-based Coarse-to-Fine Framework for Adaptive Network Traffic Classification** Yongqi Duan; Chaofan Li; Yawen Li; Yingxia Shao	P2-3B-60

Session S12 Research Track · Heterogeneous data mining and multimodal learning II

Session Chair: Yuan Sui (Northeastern University) 15:50–18:00 London

15:50–16:00	**DM621 Structural Entropy Guided Hyperedge Prediction** Wenjie Liu; Liang Duan; Xiang Chen; Jiahui Wang; Kun Yue	P2-3B-61
16:00–16:10	**DM1326 AutoDD: Learning to Select Drift Detectors for Evolving Data Streams** Nilesh Verma; Albert Bifet; Bernhard Pfahringer; Maroua Bahri	P2-3B-62
16:10–16:20	**DM441 Beyond Absolute Scoring: Scalable Curation of Text-Rich Creatives via Budgeted Anchor-Calibrated Preferences** Yuan Zhou; Yuxin Qin; Zheng Zhang; Fengheng Li; Honghe Zhu; Jingjing Lv; Hao Qi; Zehua Zhang; Changping Peng; Ching Law; Ying Wang; Shiming Xiang	P2-3B-63
16:20–16:30	**DM1884 A-CoRe: Aligning Generative Universal Multimodal Retrieval with Contrastive Reasoning** Runqing Tang; Junping Du; Wanyu Guo; Tongxu Lin; Kunpeng Hao; Zhendong Wang; Suibin Jia; Xiaobin Zhu	P2-3B-64
16:30–16:40	**DM1712 GeoM-RAG: Geometry-Aware Multimodal Evidence Mining for Long-Video Retrieval Augmentation** Hao Gong; Bin Wang; Di Jin; Zehua Zhang	P2-3B-65
16:40–16:50	**DM1796 Privacy-Preserving Multi-View Healthcare Data Imputation via Adaptive Diffusion** Huanchang Ma; Shuo Huang; Jiaming He; Jian Gao; Yujin Huang; Xin Zheng	P2-3B-66
16:50–17:00	**DM1889 MethaneFuse: Learning from Multi-Sensor Satellite Observations for Methane Plume Detection** Yuyao Wang; Juliana Leung; Di Niu	P2-3B-67
17:00–17:10	**DM2050 VISTA: Vision-First Multimodal Mining for Emotion Recognition from Text-Sparse Social Media Stickers** Yanjie Li; Xiaoyan Yuan; Chengming Li; Xiping Hu	P2-3B-68
17:10–17:20	**DM2075 EnTRA: Towards Knowledge-Augmented Temporal Retrieval and Cross-Modality Alignment for Energy Market Forecasting** Zhiming Jiang; Yihan Wang; Wei Xu	P2-3B-69
17:20–17:30	**DM1950 TDReasoning: An Efficient Top-Down Reasoning Framework for LLM Reasoning on KG** Yuanming Zhang; Jie Dong; Yang Liu; Wenbo Zheng; Fei Gao	P2-3B-70
17:30–17:40	**DM650 Dual-View Relation-aware Hypergraph Learning for Multi-step Scholar Impact Prediction** Hao Wang; Zhijie Ban	P2-3B-71
17:40–17:50	**DM2067 ROS-GAD: Reliable Open-Set Graph Anomaly Detection via Prompt Learning and Conformal Prediction** Ge Zhang; Xin Lu; Guohao Sun; Xiu Fang; Xixun Lin; Pengfei Jiao; Chuan Zhou; Liang Yang	P2-3B-72

Session S13 Research Track · LLM-driven data mining and novel applications II

Session Chair: Junhua Zhang (Northeastern University)

15:50–18:00 Beijing

15:50–16:00	**DM276 Support-Compatible Graph Construction for Local Geometric Anomaly Retrieval** Ziming Shao; Ronghua Li; Hongchao Qin; Qiangqiang Dai; Guoren Wang	P2-3B-73
16:00–16:10	**DM1246 Feature Selection for Trajectory Inference** Jing Wang; Jie Shen; Sayantan Kumar; Misaki Matsuura; Jeremy Weiss	P2-3B-74
16:10–16:20	**DM1117 SADAER: Scalable Attention Diffusion Framework for Multi-task Abnormal EEG Recognition** Fan Wu; Danni Xu; Kejing Yin; Hao Wu; Huiling Zhang; Wenfang Yao; Shanyun He; Lina Zhang; Zhaoxin Qian; Feng Lyu	P2-3B-75
16:20–16:30	**DM1363 SafeCI-18: A Benchmark for Multimodal Large Language Model Safety Evaluation in Critical Infrastructure Scenarios** Xingtao Zhu; Chaofan Chen; Zhaoying Liu; Ting Zhang; Bo Liu; Honggui Han	P2-3B-76
16:30–16:40	**DM1445 Recalibrating Visual GEO: Anchor-Decoupled Evaluation and a Transfer Probe** Zhouchen Dai	P2-3B-77
16:40–16:50	**DM721 FSEM: Frequency-Semantic Evidence Mining for AI-Generated Image Detection under Distribution Shift** Haoran Liu; Jinli Zhang; Zongli Jiang; Chen Li	P2-3B-78
16:50–17:00	**DM937 Identifying the Group to Intervene on to Maximize Effect Under Cross-Group Interference** Xiaojing Du; Jiuyong Li; Lin Liu; Debo Cheng; Jixue Liu; Thuc Le	P2-3B-79
17:00–17:10	**DM973 Curriculum Learning Enhanced Dual-Geometric Graph Anomaly Representation Learning** Ya Shen; Xuexiong Luo; Shengbo Chen; Fu Lin; Hao Peng; Shuai Ma	P2-3B-80
17:10–17:20	**DM1250 AutoDSC: Automated Algorithm Selection and Tuning for Non-Stationary Data Stream Clustering** Nilesh Verma; Albert Bifet; Bernhard Pfahringer; Maroua Bahri	P2-3C-81
17:20–17:30	**DM2181 Mining Spectral Intervals for Backdoor Vulnerability Analysis in Hyperspectral Image** Hongjin Ren; Liang Xiao	P2-3A-13
17:30–17:40	**DM1976 AFS: Affinity-aware Fast Streaming Graph Partitioning Algorithm** Huasheng Liu; Zhenyu Zhang; Xiaoling Wang	P2-3C-83
17:40–17:50	**DM756 Robust Knowledge Graph-based Patent Clustering via Local Semantic Restoration** Jinze Liu; Ke Liang; Jiaxian Lv; Lei Sheng; Yi Wang; Junxun Huang; Haiye Lu; Long Zheng	P2-3C-84

Session S14 Applied Track · Real-world AI in finance, healthcare and industry II

Session Chair: Fengzhen Tang (Shenyang Institute of Automation, Chinese Academy of Sciences)

15:50–18:00 Madrid

15:50–16:00	**DM1022 Beyond Bidding Agents: A Dual-Role Multi-Agent Framework with Dynamic Reserve Pricing for Auto-Bidding Auctions** Enmin Zhao; Linghui Meng; Lu Wang; Yu Li; Ming Pang; Changping Peng; Zhangang Lin; Ching Law	P2-3C-85
16:00–16:10	**DM1175 Highway Accident Severity Prediction in a Large-Scale Real-World Evolving Data Stream** Daniel Nowak Assis; Vinicius M. A. Souza; Jean Paul Barddal; Fabrício Enembreck; Carola Doerr; Maroua Bahri	P2-3C-86
16:10–16:20	**DM1985 Are Foundation Models Ready for Rock Fragmentation? A Multi-Domain Benchmark Across the Mining Lifecycle** Ilya Bolkisev; Vasilii Trabun; Kirill Reshetnikov; Artem Sorokin; Mikhail Ronkin; Aleksandr Kovalenko; Ilya Makarov	P2-3C-87
16:20–16:30	**DM2001 BiGSyn: A Bi-Level Heterogeneous Graph Contrastive Learning Framework for Interpretable Drug Synergy Prediction** Senquan Wang; Hui Fang; Haoran Nan; Xingwei Wang; Qiang He	P2-3C-88
16:30–16:40	**DM2080 Event-Type Propagation Graphs: A Lag-Aware Layer for Predictive Financial Analysis** Yuxuan Li; Bohan Zhang; Guo Yu; Ye Gao; Haipeng Zhang; Yixi Zhou	P2-3C-89
16:40–16:50	**DM2144 From"Who Is This User?" to"What Does This Purchase Mean?": A Deployed Pipeline for Semantic User Profiling at Bank Scale** Ryota Mitsuhashi; Tetsuro Morimura; Hirotake Ito	P2-3C-90
16:50–17:00	**DM2173 LoaDiff: Conditional Generation of Electricity Consumption Time Series for Energy Analytics** Mariia Baranova; Adrien Petralia; Etienne Le Naour; Nathan Etourneau; Guillaume Hofmann; Themis Palpanas	P2-3C-91
17:00–17:10	**DM253 A3-MSI: Traveltime-Dominated Asymmetric Multimodal Seismic Inversion with Early-arrival Waveforms** Junfeng Lv; Han Yu; Minghao Sun; Jing Li	P2-3C-92
17:10–17:20	**DM874 How Small Can You Go? LoRA Fine-Tuning 270M–8B Models for Merchant Information Extraction in Financial Transactions** Donghao Huang; Tomáš Drietomský; Benjamin Barrett; Zhaoxia Wang	P2-3C-93
17:20–17:30	**DM1257 FAME: Forecastability-Aware Mixture of Experts for Heterogeneous Time Series Forecasting** Qianyang Li; Xingjun Zhang; Shaoxun Wang; Peng Tao; Wei Jia	P2-3C-94

Keynote Speakers



Christian S. Jensen
Aalborg University, Denmark

Friday, Novermer 13, 2026 08:50-09:50
Grand Ballroom

Biography

Christian S. Jensen is Professor of Computer Science at Aalborg University, Denmark. His research concerns data management and analytics, including machine learning, data mining, and query processing, with a focus on temporal and spatio-temporal data. Christian is an ACM and IEEE Fellow, and he is a member of Academia Europaea, the Royal Danish Academy of Sciences and Letters, and the Danish Academy of Technical Sciences. He has received several awards, most recently the 2022 ACM SIGMOD Contributions Award and the 2019 IEEE TCDE Impact Award. He is on the board of Villum Fonden, a major funder of research in Denmark and is vice-chair of the Danish National Research Foundation. In Norway, he chairs the scientific advisory board (SAB) of the Norwegian Research Center for AI Innovation. He recently completed terms as president of the steering committee of the Swiss National Research Program on Big Data and as a member of the SAB of the Max Planck Institute for Informatics.

Title

Time Series Analytics – Benchmarking and Beyond

Abstract

Due in part to the widespread deployment of connected sensing devices, increasingly massive volumes of time-series data are being produced. The amount of Internet-of-Things data, much of which is time series data, is projected to reach 170+ zettabytes in 2026, being produced by 20+ billion devices. This data captures the states of diverse and important processes at an unprecedented level of detail, in turn enabling us to better understand and improve those processes. When harnessed properly, time series data thus holds the potential to enable tremendous value creation across numerous sectors.
This talk characterizes the setting of time series and characterizes selected key challenges that many existing time series analysis methods aim to address. It then presents ongoing benchmarking efforts, aiming to accelerate progress in time series machine learning by enabling easy, comprehensive, and fair comparisons of existing and new time series analysis methods. It ends by speculating on the role of benchmarking in agentic time series analytics.



My T. Thai

University of Florida, USA

Saturday, Novermer 14, 2026 08:50-09:50
Grand Ballroom

Biography

My T. Thai is the Nelms Endowed Chair Professor of Computer and Information Science and Engineering and Associate Director of the Warren B. Nelms Institute for the Connected World at the University of Florida. An IEEE Fellow, her research spans trustworthy AI, optimization, and network science, with a particular focus on understanding, optimizing, and securing complex intelligent systems. Thai has made influential contributions to network vulnerability, information dynamics, explainable AI, privacy-preserving learning, and large-scale optimization. Her work on the mathematical modeling of misinformation propagation was recognized with the 2023 ACM Web Science Trust Test-of-Time Award, while her research exposing security and privacy vulnerabilities in explainable AI received the 2023 AAAI Distinguished Paper Award.
She has authored or edited 9 books and more than 350 publications and has received honors including the IEEE Big Data Security Women of Achievement Award, the NSF CAREER Award, the DTRA Young Investigator Award, and multiple best-paper awards. She currently serves as Editor-in-Chief of ACM Computing Surveys, one of the field's most influential journals.

Title

Mining Intelligence: The Next Frontier of Data Mining

Abstract

For decades, data mining has focused on discovering hidden structure in data. Foundation models now present us with a new object of discovery. They transform vast amounts of data into internal representations and computational mechanisms that support prediction, generation, and reasoning. In this keynote, I will argue that foundation models should not only be tools for mining data; they should themselves become objects of data mining. Drawing on our recent work on critical neurons, functional groups, hierarchical representations, and computational circuits, I will illustrate how we can begin to discover the organizing principles of learned intelligence. These developments also suggest intriguing connections to ideas from network science, including structure, interaction, influence, and dynamics.



ZhiHua Zhou

Nanjing University, China

Sunday, Novermer 15, 2026 08:50-09:50
Grand Ballroom

Biography

Zhi-Hua Zhou is Professor of Computer Science and Artificial Intelligence, Vice President of Nanjing University. His research interests are mainly in artificial intelligence, machine learning and data mining, with significant contributions to ensemble learning, multi-label and weakly supervised learning, etc. He has authored the books "Ensemble Methods: Foundations and Algorithms", "Machine Learning", etc., and published more than 200 papers in top-tier journals or conferences, with more than 120,000 citations according to Google Scholar. Many of his inventions have been successfully deployed in industry. He is/was President of IJCAI Trustee, Executive Committee member of SIGKDD, Series Editor of Springer Lecture Notes in Artificial Intelligence, Editor-in-Chief of Frontiers of Computer Science, and advisory board member of AI Magazine. He founded ACML (Asian Conference on Machine Learning), and chaired many conferences including Program Chair for ICDM, AAAI, IJCAI, General Chair for ICDM, SDM, etc. He is a Fellow of the ACM, AAAI, AAAS, IEEE, and member of the Chinese Academy of Sciences and Academia Europaea.

Title

Learnware and AI Model Management System

Abstract

The transition from file storage to database management systems transformed stored data into managed resources. AI now faces an analogous transition from AI model storage to AI model management. Existing model pools essentially serve as AI model storage systems. What is needed instead are AI model management systems that enable models trained by different developers, for different tasks, with different data, and under different objectives to be identified, reused, and even assembled to address future user tasks. Because AI model developers are generally unwilling to share their training data, such systems should operate without accessing the training data of model developers and, ideally, without accessing raw data of future users. This requirement poses a fundamental challenge: the functionality of a modern AI model may not be fully understood even by the developer who trained it. How, then, can a system identify which models are useful for a given user task, let alone assemble models developed independently for different purposes? At first glance, this objective may appear unattainable. It becomes possible, however, by upgrading the basic unit of management from a machine learning model to a learnware. Learnware = Model + Specification. The specification, whose assignment transforms a trained model into a learnware, is generated with help of a machine learning process without disclosing the training data of the developer and has a theoretically established data-preservation property. The Learnware Dock System (LDS) provides a path toward powerful AI model management systems.

FCS Panel

How are LLMs, Agentic Models, and Data Generation Re-shaping Traditional Data Mining Paradigms?

Saturday, November 14, 2026 16:30-18:00

Grand Ballroom

About

Large language models (LLMs), agentic AI systems, and sophisticated data generation techniques are fundamentally re-shaping traditional data mining paradigms that have long relied on structured extraction, pattern discovery, and supervised learning from static or streaming datasets. This panel explores how generative models facilitate high-quality synthetic data creation and open-world adaptation, how agentic frameworks introduce autonomous reasoning, exploration, and iterative discovery into mining pipelines, and how these advances challenge core assumptions around data scarcity, label quality, scalability, privacy, and interpretability.

Moderators



Minling Zhang

Southeast University Professor

Trustworthy Machine Learning, Anomaly Detection, AI Agents and Reinforcement Learning, LLM Reliability, Hallucination Detection and Mitigation, and Guardrails



Raymond Chi-Wing Wong

The Hong Kong University Of Science And Technology

Database (including spatial databases, graph databases, interactive queries and query processing) and data mining (including recommendation system, natural language processing and graph processing)

Panelists



Philip S. Yu

University of Illinois Chicago
Distinguished Professor

big data, data mining (especially on graph/network mining), social network, privacy preserving data publishing, data stream, database systems, and Internet applications and technologies



Christian S. Jensen

Aalborg University
Professor

data analytics and management, and much of my research concerns foundations for value creation from temporal, time-series, spatial, spatio-temporal, geo-textual, and multidimensional data, including data modeling and database design, data models and query languages, query and update processing, data mining, machine learning, and indexing.



My T. Thai

University of Florida
UF Research Foundation Professor of Computer & Information Sciences & Engineering, Associate Director of UF Nelms Institute for the Connected World
trustworthy AI, autonomous intelligent system, optimization



Francesco Piccialli

Department of Mathematics and Applications “R. Caccioppoli”, University of Naples Federico II, Italy Full Professor of Computer Science

Full Professor of Computer Science

Federated and Distributed Learning, Edge AI, Green and Sustainable AI, Generative and Agentic AI, Digital Twins, Scientific Machine Learning, Trustworthy AI, Time-Series Analysis and Predictive Intelligence



Ling Chen

University of Technology Sydney
Professor

Trustworthy Machine Learning, Anomaly Detection, AI Agents and Reinforcement Learning, LLM Reliability, Hallucination Detection and Mitigation, and Guardrails

Workshops

Chairs



Wenjie Zhang
University of New South Wales, Australia



Alexander Zhou
Hong Kong Polytechnic University, Hong Kong, China



Phi Le Nguyen
Hanoi University of Science and Technology, Vietnam

W01 SENTIRE	Sentiment Elicitation from Natural Text for Information Retrieval and Extraction
W02 OWAD	Open World Anomaly Detection in Dynamic and Evolving Environments
W03 ADSD	AI-ready Data for Science Discovery
W04 TML4DM	Workshop on Trustworthy Machine Learning for Fair, Private, Robust, and Explainable Decision-Making
W05 WMAI	Workshop on World Models and Autonomous Intelligence for Data Mining
W06 DM-AISC	Data Mining for Ambient Intelligence and Secure Communications
W07 OEDM	Workshop on Optimization Based Techniques for Emerging Data Mining Problems
W08 HDM	The 13th ICDM Workshop for High Dimensional Data Mining
W09 PM4B	The 2nd Workshop on Pattern mining and Machine learning for Bioinformatics
W10 WAIP	IEEE ICDM International Workshop on AI for Personalization
W11 BioFM	The 2nd International Workshop on Foundation Models for Biology and Bioinnovation
W12 DMBIH	The 14th Data Mining in Biomedical Informatics and Healthcare Workshop
W13 MedTSFM	The International Workshop on Medical Time Series Analytics and Foundation Models
W14 GNN-LLM-SYN	GNN-LLM Synergy for Advanced Reasoning and Structural Knowledge Modeling
W15 UIM3	Urban Intelligence and Multimodal Mobility Mining
W16 IncrLearn	Incremental and Continual Learning in the Age of Large-Scale AI
W17 STFG	Secure and Trustworthy Federated Generative AI
W18 HDAI	Human Dynamics and Mobility Analytics in Agentic AI Era
W19 PFM4Cluster	The First Workshop on Clustering in the Age of Pre-trained Foundation Models
W20 AI4S-Bench	The 1st International Workshop on AI-for-Science Benchmarking
W21 TrustFL-SIS	Workshop on Trustworthy Federated Learning for Smart Industrial Systems
W22 LLM4MDF	Workshop on Large Language Models for Multimodal Data Fusion
W23 EDMML	Evolutionary Data Mining and Machine Learning Workshop
W24 EvoGraphDM	1st IEEE ICDM Workshop on Evolving Graph Data Mining and Continual Relational Learning
W25 MHSM	The 2nd Workshop on Mental Health Disorder Detection on Social Media
W26 DLC'26	Deep Learning and Clustering
W27 TrustRS	Trustworthy Recommender Systems
W28 MIDAS	Multimodal Data Mining for Sustainable Agriculture
W29 ARRL	International Workshop on Adaptable, Reliable, and Responsible Learning
W30 LLMTenA	Workshop on LLM for Tensor Analysis & Tensor for LLM Advancement
W31 MLC	Machine Learning for Cybersecurity
W32 D2AI	The 1st International Workshop on Data & Database Systems for Modern AI
W33 LM4TED	Large Models for Time Series Data Mining
W34 SSTDM	Spatial and Spatiotemporal Data Mining
W35 DMS	Data Mining for Service

Sentiment Elicitation from Natural Text for Information Retrieval and Extraction

W01 SENTIRE

Thursday, November 12, 2026 08:30–19:00

Grand Ballroom I

About

Sentiment Elicitation from Natural Text for Information Retrieval and Extraction (SENTIRE) is the IEEE ICDM workshop series on opinion mining since 2011. The term sentire (pronounced /sen□ti.re/) comes from the Latin feel and it is root of words such as sentiment and sensation. SENTIRE aims to provide an international forum for researchers in the field of opinion mining and sentiment analysis to share information on their latest investigations in social information retrieval and their applications both in academic research areas and industrial sectors. The broader context of the workshop comprehends Web mining, AI, Semantic Web, information retrieval and natural language processing.

Organizers



Erik Cambria
Nanyang Technological University



Rui Mao
Nanyang Technological University



Xianxun Zhu
Shanghai University

Keynote Speakers



Pengfei Wang
Chinese Academy of Sciences



Cai Luo
China University of Petroleum

Workshop Program

Morning Session (08:30–12:00)

08:30–08:40	Welcoming and Introduction (E Cambria)
08:40–09:10	Decoding States Across Scales: From Affective Intelligence to Cellular Intelligence (PF Wang, Invited Speaker)
09:10–09:30	Commitment Boundaries of LLM Rationales in Emotion Understanding (H Wang)
09:30–09:50	Multi-Agent Reasoning with Conditional Discrimination for Emotion Recognition (J Zou)
09:50–10:10	Coffee Break
10:10–10:30	Affective Cues for Verification-Based Emotional Support Response Selection (D Ying)
10:30–10:50	Curating Merchant-Matching Data with Confidence-Gated LLM Judges (J Pei)
10:50–11:10	Hypergraph-Enhanced Dual Convolutional Network for Bundle Recommendation (Y Li)
11:10–11:30	A Reproducible Hybrid-Data Benchmark for Retail-Sentiment Research (Q Nguyen)
11:30–11:50	Cross-Model Majority Voting as a Baseline for Multi-Agent Emotion Recognition (YC Li)
11:50–13:00	Lunch Break

Afternoon Session (13:00–19:00)

13:00–13:40	From Agents to Ecosystems (C Luo, Invited Speaker)
13:40–14:00	Selection-Bias-Free Re-Evaluation of Multimodal Stock Movement Prediction (D Huang)
14:00–14:20	Open Multimodal Mining of Acoustic Friction in Financial Dialogues (X Chen)
14:20–14:40	Evaluating Adversarial Robustness of LLMs on Financial Text (V Agarwal)
14:40–15:00	EconECPE: An Emotion-Cause Dataset for Financial Social Media (S Adobati)
15:00–15:20	A Structured-Vector Framework for News-Driven Stock Trend Prediction (Q Zheng)
15:20–15:50	Coffee Break
15:50–16:10	Emotion-Guided Book-to-Music Recommendation via CGANs and LLMs (G Alexandridis)
16:10–16:30	A Production-Oriented Sentiment Analytics Framework (S Kaur)
16:30–16:50	CXTime: A Rule-based Method for Chinese Time Expression Recognition (X Zhong)
16:50–17:10	Toxicity Contagion Before Applying Network Amplifier-Ranking Methods (F Akrami)
17:10–17:30	The Alignment of Humans and LLMs in Conceptualization (M Ge)
17:30–17:50	Semiotics for Explainable and Sustainable AI (A Nanetti)
17:50–18:10	Empirical Multi-Domain Evaluation of Sentiment Analysis Paradigms (E Sutan)
18:10–18:30	Exploring Attitudes Toward MEMI and EMDR through AI and Social Media Mining (X Zhu)
18:30–18:50	Trust-Aware Semantic Polarity Modeling with Fidelity Reasoning (R Venkatasamy)
18:50–19:00	Closing Remarks (E Cambria)

Open World Anomaly Detection in Dynamic and Evolving Environments

W02 OWAD

Thursday, November 12, 2026 08:30–15:30

Grand Ballroom II

About

OWAD targets open-world anomaly detection where data, labels, domains, and threats evolve post-deployment. It aims to advance adaptive, robust, explainable, and trustworthy detection for dynamic environments, uniting researchers across anomaly detection, continual learning, open-world learning, and trustworthy AI.

Organizers



Roberto Corizzo
American University



Kamil Faber
AGH University of Krakow



Davide Dalle Pezze
University of Padua



Panpan Zheng
Xinjiang University

Keynote Speakers



Yunkang Cao
Hunan University



Fei Zhu
Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences



Changhua Pei
Computer Network Information Center (CNIC), Chinese Academy of Sciences

Workshop Program

08:30–08:35	Welcome & Introduction	
08:35–09:20	**Keynote 1**	Beyond Conventional Anomaly Detection: Generation, Generalization, and Active Inspection Yunkang Cao
09:20-09:50	**Paper Session 1**	
10:10–10:55	**Keynote 2**	CLAgent: A Framework for Continual Agent Self-Evolution Fei Zhu
10:55-12:00	**Paper Session 2**	
12:00-13:00	break	
13:00–13:45	**Keynote 3**	Towards Reliable and Efficient Time Series Anomaly Detection Changhua Pei
13:45-15:15	**Paper Session 3**	
15:15–15:30	**Group Discussion & Closing**	

Accepted Papers

S01207	When Normality Shifts: Multi-Level WavLM Modeling for Open-World Audio Deepfake Detection Daniel Niekurzak, Daniel Kożuch, Weronika Folwarska, Khan Muhammad, and Rafał Scherer
S01208	GraphADapt: Graph-based Adaptive Conformal Anomaly Detection for Multivariate Time Series Sanju Xaviar and Omid Ardakanian
S01210	Bayesian Changepoint Detection for Event-Aligned REM Means Near Seismic Events Matthew B. Ponomarev, Igor E. Shepelev, Anton I. Saevsky, and Peter O. Kosenko
S01211	Routing Normality Experts for Continual Industrial Anomaly Detection Łukasz Marcjan, Dorota Wilk-Kołodziejczyk, and Roberto Corizzo
S01215	Granular Ball Distance Scoring in Isolation Forest for Anomaly Detection Albert Rachwał, Alicja Rachwał, Paweł Karczmarek, and Witold Pedrycz
S01216	EdgeCIAD: A Resource-Efficient Framework for Open-World Continual Industrial Anomaly Detection Yaohua Guo, Guoai Xu, and Jianping Yin
S01217	Scene-Relative Structural Priors for Interpretable Visual Screening of Container-Stack Abnormalities Taotao Xue
S01218	Unlearning-based sliding window for continual learning under concept drift Michał Woźniak, Maciej Mączyński, Marek Klonowski, and Bartosz Krawczyk
S01220	Label Noise Has a Shape: Geometry-Guided Benchmark Generation for Noisy-Label Learning Mateusz Wojtulewicz, Piotr Duda, and Leszek Rutkowski
S01222	SHORE: Source-Level Generalization and OOD Rejection in Earthquake-Noise Classification Yunhee Jeong, Aekyeung Moon, Youngwoo Kwon, and Seungwoo Son
DM348	Ablation-Driven Evaluation of Trivial Feature Baselines for Realistic Anomaly Detection Ivan Malashin, Igor Masich, Vadim Tynchenko, Vladimir Nelyub, and Aleksei Borodulin
DM636	CyG-Flow: Cyclic Receptive Field Transformation with Gated Multi-scale Normalizing Flows for Industrial Anomaly Detection Jiaqi Yang, Wenyuan Jia, Yanrong Hao, Ruochen Cao, Rui Cao, and Xin Wen
DM653	Reversible Trend Elimination and Data-Adaptive Dilation for Multivariate Time-Series Anomaly Detection Linhui Zhao, Xinye Wang, Zhiguo Hu, Yan Chen, Liang Du, and Chengyi Xia
DM1178	The Blind Spot Paradox: When Adaptive Classifiers Defeat Drift Detectors Raphaël Minato, Fabrice Popineau, Arpad Rimmel, and Bich-Liên Doan
DM1404	Unsupervised Online Anomaly Detection in Data Streams via Optimal Transport Herman Tcheneghon Motcheyo, Issam Falih, and Engelbert Mephu Nguifo
DM1431	ConceptNN$_{D}$: A Drifting Concept Neural Network Based on Concept Space for Mining Data Streams Yun-Long Mi, Xinlu Yuan, Huan Zhu, and Weiping Ding
DM1930	Exponential Compound Poisson Spiking Neural Networks for Time-Series Anomaly Detection Oleg Kudryavtsev and Gleb Mamedov
DM1937	Measuring the Plausibility–Fidelity Gap in Physics-Based Synthetic Faults for Industrial Cyber-Physical Systems Hyeyoung Lee and Nadeem Muhammad

AI-ready Data for Science Discovery

W03 ADSD

Thursday, November 12, 2026 08:50–15:30

VIP Room

About

ADSD brings together researchers and practitioners to advance the development and use of high-quality, AI-ready scientific datasets. It fosters interdisciplinary exchange on scientific data creation, curation, representation, and benchmarking, connecting AI and data mining with research across biology, physics, chemistry, materials science, and beyond.

Organizers



Yuanchun Zhou
Chinese Academy of Sciences



Hui Xiong
The Hong Kong University of Science and Technology (Guangzhou)



Xiansheng Hua
Tongji University

Keynote Speakers



Erik Cambria
Nanyang Technological University



Xia Hu
Shanghai Artificial Intelligence Laboratory

Workshop Program

Morning Session (08:50–12:00)

08:50–08:55	Welcome & Introduction	
08:55–09:40	**Keynote 1**	The Dual Revolution of AI: Technological Transformation and Human Decentering Prof. Erik Cambria
09:40–09:50	**Group Photo**	
09:50–10:10	**Coffee Break**	
10:10–10:55	**Keynote 2**	Prof. Xia Hu
10:55–11:08	**Paper S03213**	Development and Application of National Standard for Coding specification for Scientific Data Identification Yuanchun Zhou, Jia Liu, Xiaolei Xia, Shu Wang, Lijuan Wang, Xuezhi Wang, Jidong Li, Zhengxiang Yang
11:08–11:21	**Paper S03223**	Qualifying Reduced Scientific-Data Views as Training Interfaces for Scientific AI Jaegeun Jang, Young-Woo KWON
11:21–11:34	**Paper S03214**	OCR Evidence Decomposition and Question-Conditioned Fusion for Scene-Text Visual Question Answering yongan zhang, shixin li, fayin chong, bin zhang, Kaidi Wang, tianyi wang
11:34–11:47	**Paper S03222**	Curating Synthetic Scientific Questions for RAG Evaluation: Source Identification, Evidence Retrieval, and Answerability Ivan Dubrovsky, Nina Gubina, Anastasia Vepreva, Anastasia Orlova, Nikita Vasilev, Dina Shakirova, Anastasiia Gorbunova, Julia Razlivina, Susan Jyakhwo, Arsen Sarkisyan, Andrei Dmitrenko, Anna Kalyuzhnaya, Nikolay Nikitin
11:47–12:00	**Paper S03221**	Bridging the Causal Gap in Spectral Intelligence: A Textbook-Grounded Knowledge Corpus for Infrared Spectroscopy Dongzhen Wen, Zhengyin Hu, Xiaolong Zhang, Linjiang Chen, Liang Yang, Kaidi Wang, Chunjiang Liu
12:00–13:00	**Lunch Break**	

Afternoon Session (13:00–15:30)

13:00–13:13	**Paper S03209**	When Do LLMs Help with Feature Selection? A Systematic Empirical Study Fateme Memar, Dongjie Wang, Arvin Agah
13:13–13:26	**Paper S03205**	Benchmarking Traceable LLM Workflows for Specification and Test Generation Ivan Malashin, Vadim Tynchenko, Alexey Borodulin, Dmitry Martysyuk
13:26–13:39	**Paper S03216**	Multi-dimensional Evaluation of Solar Energy Droughts of Photovoltaic Power Generation in China under Climate Change Hao Guo, Jieming Chou, Jinming Feng, Yuting He, Yuanmeng Li
13:39–13:52	**Paper S03201**	SorpBench: Claim-Calibrated Learning from Small Paired Chemistry Experiments Adam Kiersztyn, Krystyna Kiersztyn, Kacper Romaniuk, Agnieszka Krzyszczak-Turczyn, Marta Grochowicz, Ilona Jonik, Ilona Sadok
13:52–14:05	**Paper S03215**	Cross-Domain Evaluation of Battery Life Prediction with Public and Industrial-Scale Datasets Shanshan Shen, Pengjiang Li, Pengfei Wang, Yuanchun Zhou
14:05–14:18	**Paper S03220**	Data Cooperatives for AI-Ready Data: Participatory Governance and Social Value Matteo Berta, Maurizio Ferraris, Mattia Rossi, Tania Cerquitelli
14:18–14:31	**Paper S03218**	Can LLMs Safely Operate Hardware? A Benchmark for Development-Board Operation Safety Linjian Yang, Xinyan Wang, Kunpeng Liu
14:31–14:44	**Paper S03212**	LLM-Based Metadata Curation for AI-Ready Science: Generation, Harmonization, and Debate-Driven Quality Estimation Alexander Sachuk, Alexander Sivoshenko, Lada Zajceva, Vyacheslav Chukanov, Ekaterina Pchitskaya
14:44–14:57	**Paper DM792**	Reconstructing Boundary Layer Wind Profiles with Machine Learning: A Comparative Study on IGRA Radiosonde Data Fedor Buzaev, Dmitry Efremenko, Daria Pugacheva, Fedor Ratnikov, Egor Bugaev, Vladimir Gordin, Denis Derkach
14:57–15:25	**Poster Session**	
15:25–15:30	**Closing Remarks and Acknowledgments**	

Workshop on Trustworthy Machine Learning for Fair, Private, Robust, and Explainable Decision-Making

W04 TML4DM

Thursday, November 12, 2026 08:30–15:30

Paris

About

TML4DM explores trustworthy machine learning for data mining, covering fairness, explainability, privacy preservation, adversarial robustness and security, and their applications in finance, healthcare, cybersecurity and social sciences, bringing researchers and practitioners together to advance responsible, ethically aligned data-driven decision-making.

Organizers



Huaming Chen
The University of Sydney



Na Zou
University of Houston



Ling Chen
University of Technology Sydney

Workshop Program

08:30–09:50	**Session 1**	Paris Room
09:50–10:10	**Coffee Break**	—
10:10–12:00	**Session 2**	Paris Room
12:00–13:00	**Lunch**	Grand Ballroom III (3F), Cafe Vista (1F), Lobby Bar (1F)
13:00–15:30	**Session 3**	Paris Room
Paper S26202	Image-Grounded Hardening for Diffusion Concept Unlearning Ivan Malashin, Vadim Tynchenko, Alexey Borodulin, Igor Masich, Dmitry Martysyuk	
Paper S26203	Evaluating the Impact of Model Depth on SHAP-Based Explainability Sebastian Szelest, Marek Pawlicki, Rafal Kozik, Michal Choras	
Paper S26204	Reproducible Gains, Irreproducible Rankings: A 200-Run Audit of Bias-Mitigation Methods Sergei Kurashkin, Vadim Tynchenko, Aleksei Borodulin, Vladimir Nelyub	
Paper S26205	Towards Trustworthy CNN Classification: Rethinking Classifier Architectures for Out-of-Distribution Detection Mikhail Babenko, Alexey Tselykh, Naira Akobyan, Maria Lapina	
Paper S26207	CALI: Failure Prediction via Cramer-Wold LatentInference and KDE Nathan NOWAKOWSKI, Elöd Egyed-Zsigmond, Diana Nurbakova, Sylvie Calabretto	
Paper S26213	Self-consistency and Cross-consistency metrics for LLM Robustness Assessment Sandra Mitrovic, Manuel Striani	
Paper S26214	Trustworthy Preference Mining from Conversational Data for LLM-Based Decision-Making Maksim Panchuk, Viacheslav Shalamov, Sergey Muravyov, Valeria Efimova	
Paper S26215	Beyond Demographics: Evaluating and Mitigating Emotion-Based Bias in Deepfake Detection Harsh Maheshwary, Adit Jain, Manoranjan Dash, Aadit Shah	
Paper S26217	Hierarchical Knowledge Distillation for Fair Federated Learning Tharuka Kasthuri Arachchige, Veselka Boeva, Shahrooz Abghari	
Paper S26218	KBGANet: A Multi-Scale Temporal Intrusion Detection Model for the Medical Internet of Things Jie Li, Shenglin Cao, Hongshuo Liu, Xiaoying Duan	
Paper DM317	Fast Triply-interpretable Mining of Fuzzy Association Rules by An Ensemble Classifier Liangyu Yang, Fu-lai Chung, Shitong Wang	
Paper DM399	CryptEpi: Privacy-Preserving Epistasis Detection via GPU-Accelerated Homomorphic Encryption Muntaser Syed, Ameerah Alsulami, Marius Silaghi	
Paper DM449	RandMark: On Random Watermarking of Visual Foundation Models Anna Chistyakova, Mikhail Pautov	
Paper DM451	GraPEX: GRAdual Pattern EXplainer for multivariate time series classification Durande Kamga Nguifo, Jerry Lonlac, Anthony Fleury, Engelbert Mephu Nguifo	
Paper DM1507	FinRisk-OPE: A Public Benchmark for Risk-Certified Financial Off-Policy Evaluation Hongye Wu, Youcheng Lan, Guangyan Gan, Shaobin Shi, Jie Zou, Kwanting Leung, Yuhan Cheng	
Paper DM2096	ProxyFair: Fairness-Aware Causal Discovery via Proxy-Excess Regularization Vivian Wei Jiang, Gustavo Batista, Michael Bain	

Workshop on World Models and Autonomous Intelligence for Data Mining

W05 WMAI 2026

Thursday, November 12, 2026 08:30–12:00

London

About

WMAI 2026 explores practical applications of World Models and Autonomous Machine Intelligence in data mining, including JEPA, multimodal and self-supervised learning, and autonomous exploration. It emphasizes empirical validation, scalable deployment, safety, and interpretability.

Organizers



Hiep Xuan Huynh
Can Tho University, Vietnam



Fabrice Guillet
Nantes Université, France



Ryutaro Ichise
Institute of Science Tokyo, Japan

Workshop Program

08:30–08:40	Opening and Welcome (Fabrice Guillet, online)

Session 1 (08:40–09:50): World Models and Autonomous Workflows

08:40–09:00	Paper S02203	PRoVE: Separating Self-Motion from World Change in Video World Models via Camera-Pose Positional Embeddings Tsai Shuo Kuo, Masanori Yokota, Ryutaro Ichise
09:00–09:20	Paper S02206	Per-Step Proofs Do Not Prove a Roll-out: Temporal Integrity as a Missing Obligation for World Models Nhan Vo, Duy Ninh, Hiep Xuan Huynh
09:20–09:40	Paper DM1814	Mining AI-Assisted Course Design Workflows at Production Scale Aleksandr Volkov, Taras Pustovoy, Dmitriy Istomin
09:40–09:50	Discussion of Session 1	
09:50–10:10	Coffee Break	

Session 2 (10:10–11:30): Multimodal Understanding, Retrieval and Representation Mining

10:10–10:30	Paper S02201	PRoVE: Separating Self-Motion from World Change in Video World Models via Camera-Pose Positional Embeddings Tsai Shuo Kuo, Masanori Yokota, Ryutaro Ichise
10:30–10:50	Paper S02204	SentiV: A Benchmark for Low-Resource Vietnamese Speech–Text Emotion Understanding Duc Dat Pham, Ngoc Tram Huynh Thi, Minh Anh Vo Ngoc, Nhan Le Thanh Pham, Tien Le Anh, Phuoc-Hai Huynh, Tan Duy Le, Kha Tu Huynh
10:50–11:10	Paper S02202	A Comparative Study of Similarity and Distance Metrics for Re-ranking in Retrieval-Augmented Generation (RAG) H.-A.-Khoa Ngo, K.-Duy Vo, A.-Duy Nguyen, A.-Khoi Ngo-H.
11:10–11:30	Paper S02207	Energy-Distance Multi-Fidelity Pruning for Hyperparameter Optimization in Deep Representation Mining Thuy Tran, Nghia Phan, Hiep Xuan Huynh
11:30–11:50	Open Discussion	
11:50–12:00	Closing	

Data Mining for Ambient Intelligence and Secure Communications

W06 DM-AISC26

Thursday, November 12, 2026 08:25–12:15

Beijing

About

DM-AISC 2026 explores data mining for ambient intelligence and secure communications, covering multimodal sensor analytics, real-time decision-making, threat detection, privacy-preserving learning, and trustworthy AI in resource-constrained environments.

Organizers



Quazi Mamun
Charles Sturt University, Australia



œMd Rafiqul Islam
Charles Sturt University, Australia

Keynote Speakers



Hidenori Nakazato
Waseda University



œMd Rafiqul Islam
Charles Sturt University, Australia



Muhammad Rana
ASA Institute of Higher Education

Workshop Program

Session 1 (08:25–10:00)

08:25–08:30	Opening Remarks	

Keynote Session I

08:30–09:00	Keynote 1	Co-creative Digital Twin Ecosystem Professor Hidenori Nakazato

Paper Session 1: Remote Sensing, Communications, and Distributed Systems

09:00–09:20	Paper S38201	ECHO: An Interpretable Optical–SAR Fusion Framework for Hydrology-Sensitive Mapping of Floodplain Woody Vegetation Abdullah Toqeer, Andrew Hall, Ana Horta, Ume Habiba, Skye Wassens
09:20–09:40	Paper S38206	Correlation-Pruned Fixed-Noise Sparse Bayesian Learning for Passive Intermodulation Cancellation Oleg Kudryavtsev, Nikita Efimenko, Anatoliy Efimov
09:40–10:00	Paper S38211	Robust Federated Client Selection for Fair Surge Pricing in Spatial Crowdsourcing Md Mujibur Rahman, Quazi Mamun, Michael Bewong, Md Zahidul Islam
10:00–10:10	Coffee Break	

Session 2 (10:10–12:15)

Keynote Session II

10:10–10:30	Keynote 2	Beyond Closed-World Accuracy: Open-World Robustness in Encrypted Darknet Traffic Recognition Professor Rafiqul Islam
10:30–10:50	Keynote 3	Trustworthy Intelligence at the Edge: Building Secure AI-Driven IoT and 6G Systems Dr Muhammad Rana

Paper Session 2: Artificial Intelligence and Advanced Computing Systems

10:50–11:10	Paper S38202	Stateful AI Inference Operators for Starlink Handover-Risk Prediction: Benchmark Design and Evaluation Across Streaming Compute Tiers Tanmoy Debnath, Maumita Bhattacharya, Sourabhi Debnath, Miroslaw Narbutt
11:10–11:30	Paper S38204	When Output Improves and Learning Does Not: The Cognitive Offloading and Engagement Framework for Generative AI Use Amr Adel, Mohammad Al-Rawi, Tanmoy Debnath, Manoranjan Paul
11:30–11:50	Paper S38205	Inductive Bias over Parameter Scale: Diagnosing Architecture-Task Alignment for Connectivity-Risk Prediction on Real-World LEO Telemetry Sourabhi Debnath, Maumita Bhattacharya, Tanni Mittra, Miroslaw Narbutt, Tanmoy Debnath, Manoranjan Paul, Quazi Mamun
11:50–12:10	Paper S38209	TrustRoute: Privacy-Aware Adaptive Edge–Cloud Routing for Small Language Models Mostafa Dahshan, Quazi Mamun, Tanmoy Debnath
12:10–12:15	Closing Remarks	

Workshop on Optimization Based Techniques for Emerging Data Mining Problems

W07 OEDM

Thursday, November 12, 2026, 08:00–12:00

Madrid

About

OEDM'26 presents recent advances in optimization techniques for emerging data mining problems, addressing fundamental challenges through state-of-the-art algorithms and real-life applications. It brings together researchers and practitioners to explore modern data analysis, identify industry drivers, and evaluate methods using benchmark data.

Organizers



Shi Yong
University of Nebraska at Omaha / Chinese Academy of Sciences



Chris Ding
University of Texas at Arlington



Yingjie Tian
Chinese Academy of Sciences

Workshop Program

Session 1 (08:30–09:50)

Paper Session 1: Paper Presentations (3 Papers)

08:30–08:35	Opening Remarks	Welcome & Opening Remarks
08:35–09:00	Paper S36211	A Spectral Physics-Informed Neural Network for Data-Driven Model-Free Option Pricing Oleg Kudryavtsev, Daria Postolova, Anastasia Isaeva, Maria Krynina, and Egor Sanin
09:00–09:25	Paper DM1177	Hierarchical Multi-Task Learning with Liquidity-Aware Signals for Stock Forecasting Hengyi Yang, Sida Lin, Yiyan Qi, Yankai Chen, Haohan Zhang, Xianhua Peng, and Jian Guo
09:25–09:50	Paper S36210	StrataSCAN: Adaptive Density-Stratified Clustering on Sparse kNN Graphs Elizaveta Vlasova, Mikhail Podsytnik, and Sergey Muravyov
09:50–10:10	Coffee Break	Coffee Break

Session 2 (10:10–12:00)

Paper Session 2: Paper Presentations (4 Papers)

10:10–10:35	Paper S36206	LOKAN: Continuous Relaxation of Discrete Operation Selection in Kolmogorov-Arnold Networks Danil Shepelev and Yana Demyanenko
10:35–11:00	Paper S36205	SSONN: Self-Scaled Optimized Neural Network, A Lightweight NAS Evgeny Bessonnitsyn, Ivan Mironov, Aleksandr Ustinov, Aleksandr Volosevich, Artem Bagrintsev, Olga Kudashova, Valeria Efimova, Sergey Muravyov, and Chaim Baskin
11:00–11:25	Paper S36202	COOL-Edit: Preventing Neuron Overheating for Serial Lifelong Knowledge Editing Zhibo Xiao, Haotong Duan, and Fan Meng
11:25–11:50	Paper S36204	OHRL-DIM: Hierarchical Deep Reinforcement Learning for Online Combinatorial Influence Maximization in Non-Stationary Networks Yizhuo Lu, Li Guo, Jinchao Huang, Pengyao Xu, Chong Di, and Jinbao Li
11:50–12:00	Closing Remarks	Closing Remarks & Discussion

The 13th ICDM Workshop for High Dimensional Data Mining

W08 HDM

Thursday, November 12, 2026 08:30–12:00

Kuala Lumpur

About

The 13th HDM workshop brings together researchers in databases, data science, machine learning, and statistics to address high-dimensional data analysis. It emphasizes interpretable dimensionality reduction and representations, prototype models, and methods that exploit unlabeled or auxiliary data when samples are limited. Applications span science, engineering, and business.

Organizers



Jakramate Bootkrajang
Chiang Mai University, Thailand



Ata Kaban
University of Birmingham, UK

Workshop Program

08:30–08:35	Opening Remarks
08:35–09:00	DM706 Mining Compact Information Granules from High-Frequency UAV Vibration Streams for Fault Severity Classification Adam Kiersztyn, Paweł Karczmarek, Rafał Stęgierski, Arkadiusz Syta, Bartłomiej Ambrożkiewicz, Kacper Romaniuk, Andrzej Koszewnik, Daniel Ołdziej, and Paweł Dzienis
09:00–09:25	S13204 Pseudo Real-Time Nowcasting of Korean Employment: A Four-Part Test of Sentiment Signals with Sector-Scoped Evidence Hyunjin Choo and Yeonhee Lee
09:25–09:50	S13201 A Fast Structural Clustering Tool for Experiential Data Science Education Keke Liang, Zi Chen, Long Yuan, and Jianqiu Xu
09:50–10:10	Coffee break
10:10–10:35	S13203 Robust Learning under Label Noise in High-Dimensional, Small-Sample Data via Teacher–Student Consistency Regularization Monthakan Mueanmat and Jakramate Bootkrajang
10:35–11:00	S13205 CHAOSMINING: Benchmarking Post-Hoc Attribution with Sparse Informative Features in High Dimensions Ge Shi, Menglin Liu, Fangyi Liu, and Ziwen Kan
11:00–11:25	DM1663 Discrete Morse Theory and the Piecewise Computation of Persistent Homology Xiaolin Yang and Philip Wilsey
11:25–11:50	S13202 Initialization Shifts Finite-Sample Sparse-Recovery Crossings in Interpolating Diagonal Networks Ayan Pendharkar and Rishaan Desai
11:50–12:00	Closing remarks

The 2nd Workshop on Pattern mining and Machine learning for Bioinformatics

W09 PM4B

Thursday, November 12, 2026 08:30–11:20

Seoul

About

PM4B brings together theoretical and applied research on pattern mining and machine learning for bioinformatics. It explores complex biological data, including genomic sequences, protein structures, and metabolic pathways, to discover hidden patterns, predict biological outcomes, and support data-driven decisions. The workshop connects data mining with bioinformatics, computational biology, and biomedical AI.

Organizers



Philippe Fournier-Viger
Shenzhen University, China



M. Saqib Nawaz
Shenzhen University, China



Ji Zhang
University of Southern Queensland, Australia



Youxi Wu
Hebei University of Technology, China



Yun Sing Koh
University of Auckland, New Zealand

Workshop Program

08:30	Opening
08:35-08:50	S20204 Binary, Ternary, or Granular? A Stability Comparison of Antimicrobial Susceptibility Data Representations Adam Kiersztyn, Jakub Chromiak, Kacper Romaniuk, Rafał Łopucki, Marcin Skowronek, and Ilona Sadok
08:50-09:05	S20205 Beyond Perfect AUC: Stability-Centered Pattern Mining of 16S rRNA Microbiome Profiles Adam Kiersztyn, Jakub Chromiak, Kacper Romaniuk, Rafał Łopucki, Maciej Laskowski, Dagmara Stępień-Pyśniak, Janusz Wójciak, Sara Jurczyk, Agnieszka Kuźniar, and Marceli Pacan
09:05-09:20	S20207 PRISM: Gap-Aware Targeted Mining of Position-Sensitive Motifs in DNA Sequences Vincent Mwintieru Nofong and Emmanuel Junior Obu
09:20-09:35	S20211 TCRtrie: Scalable Fuzzy Retrieval with Configurable Similarity for T-Cell Receptor Repertoires Mikhail Podsytnik, Elizaveta Vlasova, and Mikhail Shugay
09:35-09:50	S20212 VJeaNETte: Fast Neural Pre-filtering of Immune-Receptor Reads in RNA-seq Data Matvei Beliakov, Elizaveta Vlasova, and Mikhail Shugay
09:50–10:10	Coffee break
10:25-09:50	DM988 NormStaGRAIN: Stability-Aware Granular Mining of Multivariate Biochemical Signatures from Small High-Dimensional Biomedical Data Adam Kiersztyn, Hanna Karakuła-Juchnowicz, Krystyna Kiersztyn, Ryszard Sitarz, Kacper Romaniuk, Dariusz Juchnowicz, and Kaja Karakuła
10:40-11:05	DM999 Fuzzy-Shadowed Granular Mining of Uncertain Serum Tryptophan/Kynurenine Pathway Signals in Small Cancer Metabolomics Data Adam Kiersztyn, Kinga Ożga, Paweł Stepuch, Inga Łopuszańska, Ilona Sadok, Krystyna Kiersztyn, and Kacper Romaniuk
11:05-11:20	Closing

IEEE ICDM International Workshop on AI for Personalization

W10 WAIP

Thursday, November 12, 2026 08:30–12:00

Rome

About

WAIP explores AI-driven personalization, personalization of AI itself, and digital nudging. Personalized AI can adapt model behavior, knowledge, interaction style, values, and personality to users. The workshop provides an interdisciplinary forum on personalization and nudging using AI, machine learning, and data science, including behavioral effects, privacy, ethics, and evaluation.

Organizers



Joongyeub Yeo
Lirio



Chris Symons
Lirio



Raju Vatsavai
NCSU

Keynote Speakers



Pengyang Wang
University of Macau

Workshop Program

08:30–08:40	Opening Remarks
08:40–09:20	Keynote
09:20–09:35	S35203 Raw Histories or Compact Profiles? A Cost-Aware Empirical Study of User History Representations for Personalized Review Generation with LLMs Naofumi Osawa
09:35–09:50	S35207 Improving Ads Ranking Models with Auxiliary Supervision: Techniques and Insights Nikhil Bhale, Apurva Pathak, SaiSujithKumarReddy MarapaReddy, Xiao Yin, and Prateek Bhansali
09:50–10:10	Coffee Break
10:10–10:25	S35209 Dynamic Click Destinations: Personalizing Post Ad-Click Landing Experiences Apurva Pathak, Yuya Shiraki, Iman Jenabzadeh, Nikhil Bhale, Yuwen Tan, Shashank Rangarajan, and Amirmehdi Sharifzad
10:25–10:40	S35210 Profile-Based Ranking When Interaction History Is Unavailable: A Randomized-Exposure Study Chang Xu
10:40–10:55	S35211 CrossTutor: A Neural Contextual Bandit Framework for Cross-Course Cold-Start Tutoring Jin Ju, Sicong Zang, Yongquan Wan, Xiaodi Zhang, and Cairong Yan
10:55–11:10	DM620 AllerFed: Privacy-Preserving Personalized Federated Learning with Lightweight LLMs for Consumer Food-Sensitivity Support Faranak Solat
11:10–11:25	DM643 CogPrompt: A Cognitive-Aware Prompt-Augmented Agent for Personalized Tutoring Xiuling Liu, Xiaodi Zhang, Yongquan Wan, and Cairong Yan
11:25–11:40	DM1343 BCPM: Disentangling Auxiliary Behaviors for MOOC Video Recommendation Yajie Dong, Yanting Zhang, Yongquan Wan, and Cairong Yan
11:50–12:00	Closing remarks

The 2nd International Workshop on Foundation Models for Biology and Bioinnovation

W11 BioFM 2026

Thursday, November 12, 2026 08:30-12:00

Berlin II

About

The rapid advancement of AI has spawned foundation models that are transforming biology through genomics, drug discovery, and personalized medicine. BioFM 2026 will examine their applications, recent progress, challenges, and impact on bioinnovation and healthcare. The workshop brings together academic, industrial, and government experts to share insights and foster collaboration.

Organizers



Amin Beheshti
Macquarie University



Usman Naseem
Macquarie University



Mohammadhossein Ahmadi
Macquarie University

Keynote Speakers



Garry Myers
Macquarie University

Workshop Program

08:30 - 08:40	Opening Remarks	Welcome and Introduction to the BioFM Workshop Professor Amin Beheshti
08:40 - 09:33	Keynote	Keynote Dr. Mahakim Newton
09:33 - 09:50	Paper S28203	How Much Can We Compress a Foundation Model in the Biomedical Domain? Prakhar Rathore, Varun Bidhurakanthu, Mohammad Hasan
09:50 - 10:10	Coffee Break	Networking & Refreshments
10:10 - 10:27	Paper S28205	RTP-CODEC: Learning Compact TCR Representations from Multiple Biological Objectives Elizaveta Vlasova, Petr Grigorev, Mariia Demidova, Sergey Muravyov, Mikhail Shugay
10:27 - 10:44	Paper S28204	Do Vision-Language Models Understand Astronaut Health? Yogi Singh, Srinithya Paningapalli, Georgianna Leong
10:44 - 11:01	Paper S28206	Pooling Choice and Adversarial Robustness in Protein Sequence Classification Manoranjan Dash, Shanay Sheth
11:01 - 11:18	Paper S28208	BioAlignLife for Trustworthy LLMs in Healthcare-Oriented Settings Warren Yang, Aksh Naman Gupta, Benjamin Arbit, Samuel Scheffler
11:18 - 11:35	Paper DM1806	An Agent-Based Retrieval Augmented Generation Framework to Interpret Transcriptomic Data Muiz Khan, Alan Carbajo, Cristiana Iosef, Sorin Draghici
11:35 - 11:52	Paper S28202	HiCT Patterns: Foundation-Model-Enhanced Breakpoint Detection from Hi-C Vitalii Dravgelis, Anton Zamyatin
11:52 - 12:00	Closing Remarks	Summary, Acknowledgements, and Networking Professor Amin Beheshti

The 14th Data Mining in Biomedical Informatics and Healthcare

W12 DMBIH

Thursday, November 12, 2026 13:00-15:30

London

About

The 14th Workshop on Data Mining in Biomedical Informatics and Healthcare brings together researchers and practitioners from data mining, artificial intelligence, biomedical informatics, and clinical research to discuss recent advances in computational methods for analyzing biomedical and healthcare data.

Organizers



Yale University
Samah Jamal Fodeh, PhD



Oakland University
Mohammad-Reza Siadat, PhD

Accepted Papers

S39209	Beyond Accuracy: Evaluating Performance and Energy Trade-offs in EEG-Based ADHD Classification Mariusz Pelc, David Ali, Amir F. Al-Bakri, and Aleksandra Kawala-Sterniuk
S39210	CheXFuse: Guided Differential Joint Attention Fusion for Robust Multimodal Chest X-Ray Classification in Data-Scarce Medical Settings Muntaqim Ahmed Raju, Priyanka Siddappa, Md Shifat Haider Al Amin, Ruizhe Ma, and Md Ripon Ahammed
S39213	Alert-List Concordance for Evaluating Imputation Strategies in ICU Sepsis Prediction Priyanka Siddappa, Muntaqim Ahmed Raju, Shifat Haider Al Amin, and Ruizhe Ma

The International Workshop on Medical Time Series Analytics and Foundation Models

W13 MedTSFM

Thursday, November 12, 2026 13:00–15:30

Beijing

About

MedTSFM 2026 explores medical time series analytics and healthcare foundation models, integrating physiological signals, images, and electronic health records. It addresses data scarcity, irregular sampling, privacy, and reliability through multimodal learning, evaluation, and interpretable AI, supporting disease detection, patient monitoring, early warning, and clinical decision support across diverse clinical settings.

Organizers



Chenxi Liu
Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences



Hongbin Liu
Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences



Gaofeng Meng
Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences



Zhen Lei
Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences



Jinlin Wu
Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences



Dong Yi
Institute of Science Tokyo, Japan

Workshop Program

13:00 - 13:20	Opening and Welcome	
13:20 - 14:00	Paper Presentations — Session 1	IARA: Irregularity-Aware Representation Adaptation for Clinical Time Series Shengbin Liu, Yuchen Fang, Yanjun Qin, and Xiaoming Tao SCENARIODIFF: A Scenario-level Guidance Framework for Multimodal Time Series Forecasting Tuan-Binh Tran, Dat Nguyen Cong, Duc-Trong Le, Thanh Trung Huynh, Tung Kieu LoaDiff: Conditional Generation of Electricity Consumption Time Series for Energy Analytics Mariia Baranova, Adrien Petralia, Etienne Le Naour, Nathan Etourneau, Guillaume Hoffmann, Themis Palpanas
14:00 - 14:35	Keynote Talk by Prof. Jiyang Pan	
14:35 - 15:15	Paper Presentations — Session 2	ZeEEG: Zentropy-Guided Conditional EEG Generation for Sleep Stage Augmentation with Local Semantic Uncertainty Jiacheng Lyu, Feiya Xiang, and Edgar Lobaton Reference-Calibrated Residual Auditing for Backdoor Inspection in Time-Series Forecasting Jian Liu, Pengzhi Zhong, Tianshuo Wei, Chenbin Zhang, Maolin Wang Privacy-Preserving Multi-View Healthcare Data Imputation via Adaptive Diffusion Huanchang Ma, Shuo Huang, Jiaming He, Jian Gao, Yujin Huang, Xin Zheng
15:15 - 15:30	Award Ceremony and Closing Remark	

GNN-LLM Synergy for Advanced Reasoning and Structural Knowledge Modeling

W14 GNN-LLM-SYN

Thursday, November 12, 2026 13:00–15:30

Madrid

About

This workshop explores the synergy between Graph Neural Networks, Large Language Models, and Graph Foundation Models. It investigates how graph-based reasoning and semantic understanding can enhance each other, advancing representation learning, structural knowledge modeling, and reliable AI applications for complex real-world problems.

Organizers



Wei Ye
Tongji University



Xiaofeng Cao
Tongji University



Wenpeng Yin
Pennsylvania State University



Sourav Medya
University of Illinois Chicago



Ambuj Singh
University of California

Keynote Speakers



Jiangchao Yao
Associate Professor
Shanghai Jiao Tong University



Chuxu Zhang
Associate Professor
University of Connecticut

Workshop Program

13:00-13:05	Opening Remark	
13:05-13:45	Keynote Speech I	RewardFlow: Topology-Aware Reward Propagation on State Graphs for Agentic RL with LLMs Jiangchao Yao
13:45-14:25	Keynote Speech II	Graph-Structured Intelligence for LLMs and Agentic Systems Chuxu Zhang
14:25-14:45	Paper Session I	LLM-Enhanced Heterogeneous Graph Model for Collaborator Recommendation Qiaoyuan Luo, Biao Liu, and Xiaoyu Liu
14:45-15:05	Paper Session II	H-GenGA: Efficient Label-free Text Classification with LLM Generated Heterogeneous Graphs João Lucas Luz Lima Sarcinelli and Ricardo Marcondes Marcacini
15:05-15:25	Paper Session III	HSG: A Hierarchical Semantic Graph Framework for Complex Table Question Answering Tianyu Lu, Xing Ying, Xiuzhuang Zhou, and Bin Yangi
15:25-15:30	Closing Remark	Wei Ye

Urban Intelligence and Multimodal Mobility Mining

W15 UIM3 2026

Thursday, November 12, 2026 13:00–15:30

Kuala Lumpur

About

UIM3 2026 brings together researchers and practitioners to explore data mining and machine learning for urban systems and mobility. Topics include multimodal data integration, spatiotemporal learning, mobility patterns, urban knowledge modeling, privacy, and security, supporting interdisciplinary exchange and reliable, responsible applications in transportation and urban computing.

Organizers



Mostafa Ameli
GRETTIA, Université Gustave Eiffel, France



Pinghui Wang
Xi'an Jiaotong University



Lijun Sun
McGill University



Francisco Camara Pereira
Technical University of Denmark (DTU)



Yanhua Li
Worcester Polytechnic Institute



Xuan Sharon Di
Columbia University



Latifa Oukhellou
GRETTIA, Université Gustave Eiffel, France

Keynote Speakers



Alexandre Alahi
EPFL



Patrick Gallinari
Sorbonne University

Accepted Papers

S39209	IntentGeo: Granular Geographic Grounding and Selective Early Recognition of Vessel Destinations in Noisy AIS Streams Adam Kiersztyn, Dariusz Czerwiński, Kacper Romaniuk, Ernest Czermański, Maciej Laskowski, and Aneta Oniszczuk-Jastrząbek
S41203	Do Grid–POI Graphs Improve Purpose-Specific Destination Attractiveness Prediction? Tongyu Liu and Yusuke Hara
S41204	Evidence-Audited Mining of Urban Transit Accessibility Proxies: A Versioned Shanghai Metro Study Hongxin Su and Yuan Sui

Incremental and Continual Learning in the Age of Large-Scale AI

W16 IncrLearn

Thursday, November 12, 2026 13:00–15:30

Seoul

About

IncrLearn 2026 explores incremental and continual learning from evolving data streams, covering adaptive classification and clustering, concept drift, novelty detection, and methods for updating large language models and other foundation models while retaining prior knowledge.

Organizers



Jean-Charles Lamirel
University of Strasbourg & LORIA
& Dalian University of Technology

Keynote Speakers



Eirini Ntoutsi
Bundeswehr University Munich



Elena Mocanu
University of Twente

Workshop Program

Session 1 (13:00–15:30)

13:00–13:10	Welcome & Opening (Jean-Charles Lamirel)	
13:10–13:55	Invited Talk I	Title to be announced Prof. Dr. Eirini Ntoutsi

Paper Session

13:55–14:15	Paper S40202	What Survives a Merge? Auditing Data-Free Composition of Domain and Task Updates Elizaveta Sharushkina, Maria Khodorchenko
14:15–14:35	Paper S40203	TSN-Affinity: Similarity-Driven Parameter Reuse for Continual Offline Reinforcement Learning Dominik Żurek, Kamil Faber, Marcin Pietroń, Paweł Gajewski, Roberto Corizzo
14:35–15:20	Invited Talk II	Title to be announced Dr. Elena Mocanu
15:20–15:30	Open Discussion & Closing	

Secure and Trustworthy Federated Generative AI

W17 STFG

Thursday, November 12, 2026 13:00–15:30

Rome

About

STFG 2026 explores secure and trustworthy federated generative AI, covering privacy-preserving collaborative training, privacy risks in generated content, machine unlearning, content provenance, and auditing across the generative AI lifecycle.

Organizers



Angela Huo
University of Technology
Sydney, Australia



Xiufeng Liu
Technical University of
Denmark, Denmark



Ling Chen
University of Technology
Sydney, Australia

Keynote Speakers



Nitin Bisht
University of Technology
Sydney, Australia



Chunxu Zhang
Jilin University, China

Workshop Program

Session 1 (13:00–15:30)

13:00–13:05	Opening Remarks	

Keynote Session I

13:05–14:35	Keynote Talks	Managing Uncertainty in Personalized Recommendation Nitin Bisht From Centralized to Federated Recommendation: Rethinking Personalization and Collaboration Chunxu Zhang

Paper Session

14:35–14:50	Paper 1	Federated Online Conformal Prediction for Multi-Client Forecasting with Per-Client Validity Xiufeng Liu, Ruyu Liu, Huan Huo, Dianer Yu, Bo Zhao, Per Sieverts Nielsen
14:50–15:05	Paper 2	Support-Aware Conditional Cross-Modal Alignment for Multimodal Federated Regression Jiawei Wang, Haizhou Du
15:05–15:20	Paper 3	SKAG: Improving Safety of VLMs with Safety Knowledge Augmented Generation Jinpeng Zhai, Xin Kang, Bo Liu, Yin Liang, Zhaoying Liu, Honggui Han
15:20–15:30	Closing Remarks	

Human Dynamics and Mobility Analytics in Agentic AI Era

W18 HDAI

Thursday, November 12, 2026 13:00–15:30

Berlin II

About

HDAI 2026 provides a focused forum for researchers and practitioners working at the intersection of human dynamics, mobility analytics, and agentic AI. The workshop explores how large models, autonomous agents, and human-centered data intelligence can support modeling, reasoning, forecasting, and decision-making across physical and digital environments.

Organizers



Liwei Deng
Aalborg University



Hao Miao
University of Electronic Science and Technology of China



Yu Yang
The Education University of Hong Kong

Keynote Speakers



Qiange Wang
Northeastern University



Tianfu Wang
The Hong Kong University of Science and Technology (Guangzhou)

Workshop Program

13:00–13:05	Welcome	
13:05–14:05	Keynote	Towards Reliable Autonomous Graph Data Analysis with YiGraph Qiange Wang
14:05–14:20	Presentation	Explainable Early Depression Risk Screening from Facial Videos With Matrix-Preserving Region Graphs and Weakly Supervised Temporal Evidence Yaohua Guan and Guangqiang Yin
14:20–14:35	Presentation	Regression-Aware Adaptive Evidence Aggregation for Video-Based Depression Assessment Yaohua Guan and Guangqiang Yin
14:35–14:50	Presentation	When Persona Prompts Fail: Task-State Control for Improving Reasoning Task Outcomes Yuhua Liao, Zetian Wang, Qiangqiang Nie, and Zhenhua Zhang
14:50–15:20	Invited Talk	Toward Human-Centered Agentic AI: Empowering Human Growth and Creativity Tianfu Wang
15:20–15:25	Discussion	Discussion and Q&A
15:25–15:30	Conclusion	Conclusion

The First Workshop on Clustering in the Age of Pre-trained Foundation Models

W19 PFM4Cluster

Thursday, November 12, 2026 15:50–18:50

Grand Ballroom II

About

Clustering partitions unlabeled data into semantically similar groups. Foundation models (CLIP, LLMs, MLLMs) have advanced clustering across images, texts, and graphs. This workshop convenes researchers in multimodal learning, foundation models, and clustering to discuss advances, methods, applications, and challenges at their intersection, fostering cross-domain collaboration.

Organizers



Bo Peng
University of Technology Sydney



Chunchun Chen
Tongji University



Wei Ye
Tongji University

Workshop Program

15:50–15:55	Opening Remark	Bo Peng
15:55–16:20	Keynote Speech I	Dandan Guo
16:20–16:45	Keynote Speech II	Yuheng Jia
16:45–17:05	Paper Session I DM1621	From Abstracts to Knowledge Graphs: Evaluating Relation Clustering and Post-hoc Canonicalization for General Health Information Extraction Afra Alharbi, Hanan Murayshid, Rawad Alqahtani, Monira AlShehri, and Turky AlOtaiby
17:05–17:25	Paper Session II DM1689	Adaptive Clustering for Prompt Engineering with Pre-trained Tabular Models Samirasadat Jamalidinan, Yue Xu, and Kazem Cheshmi
17:25–17:45	Paper Session III S08201	Skill-Delta Graphs for Career Transition Modeling: A Structural Analysis of Occupational Mobility from Unsupervised Role Archetypes Shreyash Rawat
17:45–18:05	Paper Session IV S08203	GeoSciLLM: Pretrained-Model-Based Clustering of Scientific Abstracts for Geo-Thematic Literature Mapping Vadim Tynchenko, Alexey Borodulin, Dmitry Martysyuk, Vladimir Nelyub, and Ivan Malashin
18:05–18:45	Discussion and Q&A	Bo Peng
18:45–18:50	Closing Remark	Bo Peng

The 1st International Workshop on AI-for-Science Benchmarking

W20 AI4S-Bench

Thursday, November 12, 2026 15:50–18:50

VIP Room

About

AI4S-Bench focuses on benchmarking scientific data, AI models, agents, and applications. It brings together researchers to develop reliable evaluation datasets, protocols, and metrics, promoting reproducibility, transparency, and trustworthy AI-driven scientific discovery.

Organizers



Hengshu Zhu
Computer Network Information Center, Chinese Academy of Sciences



Chuan Qin
Computer Network Information Center, Chinese Academy of Sciences



Chuanren Liuen
University of Tennessee, Knoxville

Keynote Speakers



Chao Wang
University of Science and Technology of China



Wei Zeng
Business School, Hunan University



Ziye Yu
Institute of Geophysics, China Earthquake Administration



Bo Jin
Dalian University of Technology

Workshop Program

15:50–16:05	Welcome and opening remarks	

Session I (16:05–17:45): Invited Talks

16:05–16:30	Invited Talk	Spectrum-Centered Foundation Model For Molecular Design Prof. Chao Wang
16:30–16:55	Invited Talk	From Single Tools to Collective Intelligence: Building a Multi-level Value Evaluation Benchmark for Multi-Agent Systems Prof. Wei Zeng
16:55–17:20	Invited Talk	Toward a National Benchmark for Reliable Earthquake Detection Prof. Ziye Yu
17:20–17:45	Invited Talk	From Accuracy to Reliability: Benchmarking AI for Global Flood Inundation Forecasting Prof. Bo Jin

Session II (17:45–18:45): Paper Presentations

17:45–18:00	Paper DM446	AstroAL-H2: Censored Active Learning for Multimodal Scientific Discovery with Expensive Measurements Siqi Liu, Xucheng Yin, Bo Qiu
18:00–18:15	Paper S11202	Tabular Foundation Models Under Covariate Shift: a Shift-Aware, Budget-Matched Evaluation Protocol Sergei Kurashkin, Vadim Tynchenko, Aleksei Borodulin, Vladimir Bukhtoyarov
18:15–18:30	Paper S11203	Amortized Model Selection for Scientific Equations: A Predictive Validation Procedure with Cross-Domain Evidence Manoranjan Dash, Shivam Aralikatti
18:30–18:45	Paper S11204	Verifying the Verifier: A Controlled-Counterfactual Benchmark for Scientific Figure Evaluators Egor Gromov, Ilia Novitskii, Boris Malashenko, Kirill Mironov, Nikolay Gavrishok, Evgenii Rutkovskii, Valeria Efimova
18:45–18:50	Closing remarks	

Workshop on Trustworthy Federated Learning for Smart Industrial Systems

W21 TrustFL-SIS

Thursday, November 12, 2026 15:50–18:50

Paris

About

TrustFL-SIS explores secure, privacy-preserving, explainable, robust, fair, and sustainable federated learning for smart industrial systems. It addresses heterogeneous data, collaborative model training, and reliable applications in manufacturing, healthcare, and intelligent transportation.

Organizers



Francesco Piccialli
University of Naples Federico II, Italy



Qiang Yang
The Hong Kong Polytechnic University, Hong Kong



Lingyu Qiu
University of Naples Federico II, Italy

Keynote Speakers



Veronica Liu Yang
The Hong Kong Polytechnic University, Hong Kong

Workshop Program

15:50–15:55	Welcome and Opening Remarks	
15:55–16:55	Invited Keynote	When Federated Learning Meets LLMs: Opportunities and Challenges for Industrial AI Prof. Veronica Liu Yang · The Hong Kong Polytechnic University

Technical Session I (16:55–17:35): Federated Methods & Explainability

16:55–17:15	Paper S05204	Federated TimeVQVAE Anomaly Detection: Prior Sharing Requires an Aligned Tokenizer Leonardo Schiavo, Donato Cerciello, Angel Panizo-Lledot, Javier Huertas Tato, Stefano Izzo, Fabio Giampaolo, David Camacho
17:15–17:35	Paper S05207	When Do Local Explanations Aggregate? A Framework for Explainable Federated Learning Kenneth Shum, Chi Wan Sung

Technical Session II (17:35–18:15): Privacy, Trust & Observability

17:35–17:55	Paper S05209	Differentially Private Federated Class-Incremental Learning for EEG Mental State Classification Baran Can Gül, Ali Gülümser, Nasser Jazdi, Michael Weyrich
17:55–18:15	Paper S05212	Extending FAIR Principles with Observability for Trustworthy Federated Learning Hangli Ge, Noboru Koshizuka

Workshop on Large Language Models for Multimodal Data Fusion

W22 LLM4MDF

Thursday, November 12, 2026 17:50-18:50

Seoul

About

LLM4MDF targets the emerging intersection of large language models (LLMs), multimodal learning, and data fusion, which are high-impact directions aligned with the core mission to advance data mining theory, algorithms, and applications.

Organizers



Weiwei Jiang
Beijing University of Posts and Telecommunications, China



Ahmad Taher Azar
Prince Sultan University, Saudi Arabia



Muhammet Deveci
University College London, UK



Stefano Cirillo
University of Salerno, Italy

Workshop Program

17:50-18:00	Welcome and Introduction	
18:00–18:45	Oral Presentation	1MIRAGE: Mechanism-Informed Regime-Adaptive Causal Diagnosis for Industrial Time Series S18206 Guowei Zhu, Zhiru Li, Hexiao Zhou, Zexiao Xiao, and Wuhou Yao
		SAGE: Safety-Aware Grounding with External-Knowledge Enhancement for Safety Alignment of Multimodal Large Language Models S18207 You Yan, Jinpeng Zhai, Bo Liu, Ziyu Wang, Ting Zhang, and Honggui Han
		MDEF: Multi-Report Deep Ensemble Fusion for 3D CT Report Generation DM2048 Tung Duong Ta, Tim Oates, Manas Gaur, Trong-Nghia Nguyen, Tien-Cuong Nguyen, Tuan-Cuong Vuong, Trang Xuan Mai, and Thien Van Luong
18:45	Closing Remarks	

Evolutionary Data Mining and Machine Learning Workshop

W23 EDMML

Thursday, November 12, 2026 15:50-18:50

Beijing

About

The workshop aim to investigate new theories and methods across different evolutionary computation paradigms and to bring together researchers and practitioners from around the world to discuss the latest advances in the field, serving as a major forum for presenting recent research.

Organizers



Ying Bi
Zhengzhou University



Bing Xue
Victoria University of Wellington



Mengjie Zhang
Victoria University of Wellington

Keynote Speakers



Dr. Nan Li
Shanxi University.

Workshop Program

15:50-16:00	Opening Remarks
16:00–16:40	Invited Talk: Performance Predictor in Evolutionary Deep Learning: Methods and Applications Dr. Nan Li
16:40–17:00	Data-Driven Mixed-Space Control for Evolutionary Feature Selection and Hyperparameter Optimisation S22203 Igor Masich, Alexey Borodulin, Vadim Tynchenko, and Ivan Malashin
17:20–17:40	Search-Space Reduction in Neural Architecture Search: Does It Help or Just S22204 Sergei Kurashkin, Vladimir Nelyub, Aleksei Borodulin, and Vadim Tynchenko
17:40–18:00	Boltzmann Distribution-Based Genetic Algorithm for VLSI Circuit Partitioning S22206 Daria Zaruba and Elmar Kuliev
18:00–18:20	ASDA: Adversarial Sensing-Driven Augmentation via Latent Feature Mining for Low-Resource Harmful Content Detection DM589 Xiang Zhou, Shengli Gan, Xingyu Lu, Yumeng Ma, Junwei Li, Yanbing Liu, and Chunrong Tan
18:20–18:40	MSTAN: Multi-Scale Temporal Adjacency Network for Traffic Flow Prediction DM1224 Da Li, Xiujuan Xu, Guanghui Li, Yu Liu, Donghang Han, and Xiaowei Zhao
18:40-18:50	Closing Remarks

1st IEEE ICDM Workshop on Evolving Graph Data Mining and Continual Relational Learning

W24 EvoGraphDM

Thursday, November 12, 2026 15:50–18:50

Madrid

About

EvoGraphDM brings together researchers and practitioners working on graph, relational, heterogeneous, and structured data mining. Motivated by evolving graphs and continual relational learning.

Organizers



Xiaofan Li
Nanjing University



Haipeng Dai
Nanjing University



Rui Zhou
Swinburne University of Technology

Keynote Speakers



Chuxu Zhang
University of Connecticut
Graph-Structured Intelligence for LLMs and Agentic Systems

Workshop Program

15:50–16:10	Opening and Introduction	
16:10–16:40	Keynote	Graph-Structured Intelligence for LLMs and Agentic Systems Chuxu Zhang
16:40–17:00	S07204	Next Basket Recommendation with Dual Preference Graph for Price and Interest Jiaxu Wang, Qishan Feng, Ling Huang, Zhenyu Yang, Yuefang Gao, Chang-Dong Wang
17:00–17:20	S07208	MCDG: Multi-dimensional Contrastive Learning for Continuous-time Dynamic Graph Representation Yu Xiao, Zhengyan Shi, Liu Yang, Yingting Li, Li Zhang
17:20–17:40	S07210	A Per-Edge Diagnostic Framework for Continuous-Time Graph Learning Tobias Fritz, Gabi Dreo Rodosek
17:40–18:00	S07213	Adaptive Synchronization Protocol for Structured Data in Active-Active Data Center Architecture Fei Peng, Tianyu An, Duoqin Wang, Qingdong Meng, Rui Ma, Shuneng Hu, Feng Zhang
18:00–18:20	DM1580	Agentic GraphRAG with Intent Decomposition for Scientific Resource Mining and Recommendation Wilson Ang Wei Zheng, Yanchun Sun, Sihan Wang, Hao Wen
18:20–18:40	S07203	CC-Sketch: Collision-Calibrated Persistence Estimation in High-Speed Data Streams Taotao Xue
18:40–18:50	Best Paper Awards Announcement & Closing Remarks	

The 2nd Workshop on Mental Health Disorder Detection on Social Media

W25 MHSM 2026

Thursday, November 12, 2026 15:50–18:45

Kuala Lumpur

About

MHSM explores ethical, robust and scalable methods for identifying cognitive and mental health issues from social media, including datasets, benchmarks and large language models.

Organizers



Qing Li
Hong Kong Polytechnic University



Hong Va Leong
Hong Kong Polytechnic University



Haoyang Li
Hong Kong Polytechnic University



Xiangmeng Wang
Hong Kong Polytechnic University

Keynote Speakers



Prof. Xuejiao Zhao
College of Computer Science, Sichuan University

Workshop Program

15:50–15:55	Opening remarks	
15:55–16:45	Keynote	Sichuan University
16:45–17:02	S04213	Beyond Risk Prediction: Evidence Grounding and Psychosocial Factor Verification for Explainable Suicide Risk Assessment Tianle Hu, Peng Chen, Yi-Hsin Tsai, Takshing Andy Tung, Bingyang Sun, and Yenjou Wang
17:02–17:19	S04211	Structure vs. Chain-of-Thought: Evaluating LLM Criteria Extraction for Depression Severity Xinkai Chen
17:19–17:36	S04207	Target-Aware Validation under Population Shift: Diagnosing Selection Bias in Small-Cohort Suicide Risk Detection Momen Ibrahim, Mariam Hassib, Ahmed Salem, and Marwan Torki
17:36–17:53	S04208	Authorship-Resolved Detection of Suicidal Ideation in Smartphone Screenshots: Which Expressions Track Momentary Self-Report and Clinical Events Wenpei Shao, Brooke Ammerman, and Ross Jacobucci
17:53–18:10	S04209	From Evidence to Inference: Auditable Multi-Agent Reasoning for Mental-Health Language Analysis Jingchen Ye, Yanpei Yu, and Luyao Zhang
18:10–18:27	S04212	MindLapse: A Life-Event-Driven Dataset of Longitudinal Social Media Posts with Mental Health Trajectories Sirui Huang, Jun Li, and Xiangmeng Wang
18:27–18:44	DM2192	LLM-Driven Mining and Modeling of Supportive Dialogue across Mental Health Conditions Farzaneh Lashgari and Sebastião Pais
18:44–18:45	Closing remarks	

Deep Learning and Clustering

W26 DLC'26

Thursday, November 12, 2026 15:50–17:40

Seoul

About

DLC 2026 is a specialized workshop on deep unsupervised representation learning and joint clustering for complex data. It brings together researchers from ML, computer vision, bioinformatics, and graph mining to discuss algorithmic advances, real-world applications, and benchmark datasets for high-dimensional, noisy, nonlinear, heterogeneous data.

Organizers



Lazhar Labiod
Centre Borelli, Université Paris Cité



Mohamed Nadif
Centre Borelli, Université Paris Cité

Workshop Program

15:50-15:55	Opening Remarks	Organizers
15:55-16:20	Explaining Fuzzy Mamba-Based Multi-View Clustering: An XAI Analysis of State-Space Models for Multivariate Time Series Donato Cerciello, Leonardo Schiavo, Angel Panizo-Lledot, Javier Huertas-Tato, Junxin Chen, and David Camacho	
16:20–16:45	MFIKAN: Multi-Scale Feature-Fused Interpretable Kolmogorov-Arnold Network Hongbing Wang, Chenhao Xie, Junliang Tao, Liang Zhou, and Jian Li	
16:45–17:10	CWG-Sil: A Geometry-Aware Silhouette Score for Robust Cluster Validation Manoranjan Dash, Aditi Kedia, and Chahat Gupta	
17:10–17:35	Sparse Feature Group K-Means for Enhanced Cluster Interpretability Abdoul Wahab Diallo, Ndèye Niang, Mory Ouattara, and Mamadou Bousso	
17:35–17:40	Closing Remarks	Organizers

Trustworthy Recommender Systems

W27 TrustRS

Thursday, November 12, 2026 15:50–18:50

Rome

About

TrustRS (Workshop on Trustworthy Recommender Systems) is co-located with IEEE ICDM 2026. It targets trustworthiness issues in recommender systems, covering learning, relearning and unlearning. This workshop gathers researchers and practitioners to advance fair, transparent, private and robust recommendation techniques.

Organizers



Tianyu Du
Zhejiang University



Fuli Feng
University of Science and Technology of China

Workshop Program

15:50–16:00	Welcome & Introduction	
16:00-16:30	Keynote	
16:30-17:40	**Oral Presentation Part I**	
	S09201	Conformalized 1-Bit Matrix Completion Yueqing Xing, Siyuan Wu, Ji Cui, and Liangliang Yuan
	S09202	SALSA: Selective Adversarial Learning via Sharded Aggregation for Input and Attribute Unlearning in Recommendation Systems Lin Zhao, Chuanchuan Li, Hengcheng Liang, Zhongmo Qin, Haoyu Luo, and Zhuoyu Wang
	S09207	QFedRec: Quantum-Enhanced Federated Recommendation under Resource Constraints Xiaohua Feng, Yuyuan Li, Jiaming Zhang, Li Zhang, Fengyuan Yu, Jun Zhou, Chaochao Chen, and Jianwei Yin
17:40-17:50	Coffee Break	
17:50-18:30	**Oral Presentation Part 2**	
	S09208	FORGE: Flat-Aware Topology-Constrained Sequential Unlearning for Recommendation Xinyue Li, Ximei Fu, Wenjin Li, Qiyi Ma, Jiayi Qian, and Yiduo Wang
	S09211	Temporal Counterfactual Diagnosis of Structural Bias in Dynamic Recommender Graphs Daheng Zhu, Yicong Li, Cheng Chen, Shuai Xu, and Tianzi Zang
18:30-18:50	Conclusion & Farewell	

Multimodal Data Mining for Sustainable Agriculture

W28 MIDAS

Thursday, November 12, 2026 15:50–18:50

Berlin II

About

MIDAS focuses on mining actionable knowledge from these heterogeneous sources to improve productivity, resilience, and sustainability. The workshop emphasizes methods for temporal modelling, robustness under distribution shifts, simulation-data fusion, and decision support in highly dynamic agricultural environments.

Organizers



Zijian Wang
The University of Queensland



Shijie Wang
The University of Queensland



Hao Lu
Huazhong University of Science and Technology



Yadan Luo
The University of Queensland



Shouyang Liu
Nanjing Agricultural University



Wei Guo
The University of Tokyo

Keynote Speakers



Juepeng Zheng
Sun Yat-sen University

Workshop Program

15:50–16:00	Welcome & Introduction	
16:00-16:40	Keynote	Towards Foundation Models for Agricultural Remote Sensing: From Spatial-Temporal-Spectral Pre-training to Multimodal Agricultural Intelligence Juepeng Zheng

Paper Presentation (16:40-18:00)

16:40-17:00	S24202	Counting Beyond Pixels: Geometry-Guided Multi-View Chickpea Phenotyping in 3D Xiaoqian Hu, Ruihong Qiu, Sen Wang, Zi Huang, Chrisbin James, Lotus Meijer, Daniel Smith, Scott Chapman, Shanice Van Haeften, and Millicent Smith
17:00–17:20	S24203	A Growth-Aware Adaptive Feature and Stage Selection Network for Wheat Yield Prediction Rui Ye, Yu Lang, Yan Ge, Yu Ding, HuanLiang Xu, and Zhaoyu Zhai
17:20–17:40	S24204	Corn Ears Are Not Crowds: CornPET++ for Streamlined Corn Kernel Counting Pinzhe Li, Siyuan Liang, Yan Chen, Likun Wu, Zhengxi Min, Jiafei Zhang, Zhiguo Han, and Hao Lu
17:40–18:00	DM1845	PPoll: A Hierarchically Annotated Multi-Crop Benchmark for Robotized Precise Pollination Yang Song, Jinrong Wu, Jiancheng Feng, Zhaofeng Niu, Hanxiang Wang, and Jing Xiong
18:00–18:10	Closing	

International Workshop on Adaptable, Reliable, and Responsible Learning

W29 ARRL

Sunday, November 15, 2026 13:30-18:00

Berlin I

About

ARRL explores learning-enabled systems for real-world decision-making, promoting adaptability to changing environments, reliability under uncertainty, and responsibility through fairness, explainability, privacy and sustainability.

Organizers



Yi He
William & Mary



Chen Zhao
Baylor University



Xingquan “Hill” Zhu
Florida Atlantic University

Workshop Program

Session 1 (13:30–15:30)

13:30–13:35	Opening Remarks	
13:35–14:00	Keynote	
14:00–14:15	Paper S16205	Dynamic Regret for Unconstrained Online Regression via the Follow-the-Leading-History Algorithm with Vovk–Azoury–Warmuth Forecasters Viacheslav Potapov, Dmitry Rokhlin
14:15–14:30	Paper S16207	One-Shot Domain Calibration of Mixture-of-Experts Routers via Gradient Bias Steering Marina Frolova, Ivan Shchukin, Evgeny Bessonnitsyn, Konstantin Pakulnevich, Timur Gabbasov, Aleksandr Ustinov, Sergey Muravyov
14:30–14:45	Paper S16208	Geometry-Aware Distribution-Free Sequential Prediction via Signature Defensive Forecasting SANA GAIED CHORTANE
14:45–15:00	Paper S16211	Divergence Aware Isolation Forest via Branch Occupancy Distributions Albert Rachwał, Alicja Rachwał, Paweł Karczmarek
15:00–15:15	Paper S16212	Adaptive Reasoning with Recursive Decomposition Jingjun Tang, Limin Yan, Lixing Yu, Kun Yue, Zhiwen Tang
15:15–15:30	Paper S16213	Does Model Uncertainty Track Human Ambiguity? Evidence from Multi-Annotator Vision Benchmarks Manya Singh, Arjun Pakrashi
15:30–15:50	Coffee Break	

Session 2 (15:50–18:00)

15:50–16:05	Paper S16214	CLIP-CVAE: Attribute-Conditioned Feature Synthesis for Generalized Zero-Shot Learning Muqaddas Gull, Mubashir Ahmad, Huma Naj, Samee Ullah Khan
16:05–16:20	Paper S16215	SCOF: Causal Risk Mining and Cost-Aware Intervention for AI Agent Safety Satyam Mishra, Phung Thao Vi, Anchit Bijalwan, Tan Duc Tran, Vishwanath Bijalwan
16:20–16:35	Paper S16216	TRACE-LLM: A Replayable and Certificate-Driven Transformation Framework for Domain-Specialized Large Language Models Kamal Taha
16:35–16:50	Paper DM991	Leakage-Safe Block-Granular Mining of Energy-Drink Survey Data:Stable Behavioural Signatures in a High-Dimensional Questionnaire Adam Kiersztyn, Paweł Krukow, Krystyna Kiersztyn, Natalia Kupis-Posiej, Kacper Romaniuk, Andrzej Cudo
16:50–17:05	Paper DM1153	Mining Multi-Model Failure Patterns for Reliability Auditing of 3D Lung Nodule Malignancy Predictors Xin Meng, Xiaopeng Li, Huixin Yu, Yuhong Zhao, Qing Chang
17:05–17:20	Paper DM1289	When Do Label-Free LLM Divergence Claims Reproduce? A Reliability Audit over Domain Taxonomies Yinan LIU, Tengfei Ma, Weimin Lyu, Xinyu Dong, Xiaojie Fan, Rachel Wong, Richard Rosenthal, Henry Lam, Fusheng Wang
17:20–17:35	Paper M1472	KARD: A Knowledge-Anchored Reasoning Distillation Framework for Domain-Specific Small-Scale LLMs via Attraction Basin Regularization Gen Li, Zhichao Yang, Yuanze Hu, Ye Qiu, Xinyu Wang, Yifan Sun, Zhaoxin Fan, Faguo Wu, Hongwei Zheng, Wenjun Wu
17:35–17:50	Paper M2209	Interpretable Neuro-Symbolic Learning for Robust Tennis Biomechanical Error Detection under Distribution Shift Chunchen Lin, Linhai Zhu, Chunfeng Lin
17:50–18:00	Closing Remarks	

Workshop on LLM for Tensor Analysis & Tensor for LLM Advancement

W30 LLMTenA

Sunday, November 15, 2026 13:30-18:00

VIP Room

About

LLMTenA focuses on the synergy between LLMs and tensor analysis: using LLMs to advance tensor-based data analysis, and tensor methods to improve LLM efficiency, interpretability, robustness and scalability.

Organizers



Zijian Wang
The University of Queensland



Shijie Wang
The University of Queensland



Hao Lu
Huazhong University of Science and Technology

Keynote Speakers



Juepeng Zheng
Sun Yat-sen University

Workshop Program

Session I (13:30–15:30)

13:30–13:35	Opening Remarks	
13:35–14:20	Invited Talk 1	
14:20–14:55	Paper S21202	LLM-Elicited Constraint Priors for Reconstructing Physical Field Tensors Tianrui Chen, Siyuan Li, Panqi Chen, Yifan Sun, Mingjie Shao, Lei Cheng
14:55–15:30	Paper S21201	TensorRecover: Recovering Tensorized Low-Rank Language Models Guanyi Fan, Tongkai Ji, Wei Dai
15:30–15:50	Coffee Break	

Session II (15:50–18:00)

15:50–16:25	Paper S21204	Co-Activation Predicts Functional Coherence: Pairwise Fusion for Compression in Mixture-of-Experts Evgeny Bessonnitsyn, Konstantin Pakulnevich, Marina Frolova, Ivan Shchukin, Timur Gabbasov, Aleksandr Ustinov, Sergey Muravyov
16:25–16:30	Online Speaker Setup	
16:30–17:15	Invited Talk 2	Reliable LLMs with Probabilistic Circuits Antonio Vergari (Invited Speaker)
17:15–17:50	Paper S21203	The Retriever Should Remember: Experience-Amortized Reranking for Long-Term Agent Memory Qi Feng, Chris Ding, Jicong Fan
17:50–18:00	Discussion & Closing Remarks	

Machine Learning for Cybersecurity

W31 MLC

Sunday, November 15, 2026 13:30-18:00

Kuala Lumpur

About

MLC explores data mining and machine learning for cybersecurity, covering threat detection, malware analysis, vulnerability detection, adversarial learning, secure AI and data-driven security analytics.

Organizers



Mengmeng Ge
Singapore Management University/Harbin Institute of Technology
Dr



Dongqi Han
Beijing University of Posts and Telecommunications
Dr



Ruitao Feng
Southern Cross University
Dr

Keynote Speakers



Jeremiah Birrell
Texas State University
Assistant Professor



Xi (James) Zheng
Macquarie University
Distinguished Professor



Xiaoning (Maggie) Liu
RMIT University
Senior Lecturer, ARC DECRA Fellow



Yi Liu
Griffith University
Lecturer



Chengwei Liu
Nankai University
Full Professor

Workshop Program

Session 1 (13:30–15:30)

13:30–13:35 Opening Remarks

Keynote Session I

13:35–13:55	**Keynote 1**	Jeremiah Birrell
13:55–14:15	**Keynote 2**	Xi (James) Zheng
14:15–14:35	**Keynote 3**	Xiaoning (Maggie) Liu

Paper Session 1: Graph Learning, Anomaly and Deepfake Detection

14:35–14:47	**Paper S23203**	SynthWeave: Repurposing Biometric Embeddings for Efficient Multimodal DeepFake Detection Dawid Wolkiewicz, Piotr Syga, Aleksandra Kawala-Sterniuk
14:47–14:59	**Paper S23202**	Efficient Mitigation of Concept Drift in GNN-Based Intrusion Detection: Innovative Proposition of Low-Resource Adapter Tuning Franciszek Lasinski, Marek Pawlicki, Rafal Kozik, Michal Choras
14:59–15:11	**Paper DM1999**	A Multidirectional Bilevel Learning Framework for Class-Generalizable Anomaly Detection Padmaksha Roy, Pooja Algikar, Lamine Mili, Almuatazbellah Boker
15:11–15:23	**Paper S23211**	Structure Over Features: Adversarial Robustness of GNN Architectures for Entity-Level Bitcoin AML Subgraph Classification Joachim Szewior, Kamil Szyc
15:23–15:35	**Paper S23204**	The Limit Is in the Input, Not the Model: State-Dependent Command Safety in Natural-Language Interfaces to Industrial Controllers Hemen Taukoor, Zhaoxia Wang, Venky Shankararaman
15:35–15:50	**Coffee Break**	

Session 2 (15:50–18:00)

Keynote Session II

15:50–16:10	**Keynote 4**	Yi Liu
16:10–16:30	**Keynote 5**	Chengwei Liu

Paper Session 2: Large Language Models and Software Security

16:30–16:42	**Paper S23207**	MINER: Mining Internal Knowledge from Self-Evolving Reasoning Traces for Vulnerability Detection Weidong Huang, Gangyan Zeng, Xianda Fang, Zhihao Li, Wenxin Liu, Huiyuan Zhang, Liehuang Zhu
16:42–16:54	**Paper S23210**	From Retrieved Evidence to Security Outcomes: A Data-Driven Analysis of Java Security API Misuse in LLM-Generated Code Tianhe Lu, Eric Spero, Sakuna Harinda Jayasundara, Robert Biddle, Giovanni

Paper Session 3: Robust and Applied Machine Learning for Security

16:54–17:06	**Paper S23206**	SAGE: Similarity-Based Cleaning of Poisoned Training Data from Verified Examples Chaeeun Han, Soodeh Atefi, Yevgeniy Vorobeychik, Aron Laszka
17:06–17:18	**Paper DM1371**	EarlyDeFi-Bench: DeFi Rug-Pull Warning with Entity-Isolated Evaluation Youcheng Lan, Guangyan Gan, Shaobin Shi, Jie Zou, Kwanting Leung, Hongye Wu, Yuhan Cheng
17:18–17:30	**Paper S23215**	Scaling PassGAN Password Guessing: A Multi-Dataset Study of Coverage, Repetition, and Password Strength Aarav Goyal, Ali Arslan, Suleyman Uludag
17:30–17:42	**Paper S23213**	ROC-Based Evaluation of CyberSecurity Threat Classification Using Logistic Regression Jolanta Tańcula, Adam Czubak, Marek Barycki
17:42–18:00	**Closing Remarks**	

The 1st International Workshop on Data & Database Systems for Modern AI

W32 D2AI

Sunday, November 15, 13:30–18:00

Seoul

About

Exploring the next generation of scalable, efficient, and trustworthy data infrastructures for modern AI. Topics include hybrid relational, vector, and graph retrieval; AI-accelerated query processing; knowledge-enhanced reasoning; data governance and provenance; benchmarks; and real-world systems.

Organizers



Zhengyi Yang
The University of Sydney



Guanfeng Liu
Macquarie University



Qingqiang Sun
Great Bay University

Keynote Speakers



Prof. Yanfeng Zhang
Northeastern University, China

Workshop Program

13:30–13:45 Opening Remarks: D2AI 2026 Workshop Organizers

13:45–14:30 Keynote: Yanfeng Zhang

Session 1: Database Systems and Industrial Applications

14:20–14:55 The Oracle Is Not Free: Lifecycle-Aware Cost Modeling for Quantum Database Filtering
Wenke Yang, Kongzhang Hao, Dong Wen, Xin Cao, and Serge Gaspers

14:45–15:00 DRTC-GPFC: Constraint-Aware Text-to-SQL for Enterprise Database Agents
Jiayin Liu, Lei Peng, Yufei Cheng, Zhongxin Wu, Jiajie Sheng, Yujie He, Yuling Zhou, Yang Yu, Yanlei Shi, Jianxing Zhai, Ning Wang, Zhenxiang Xu, James Lin, and Jianwen Wei

15:00–15:15 ERP Event Logs: A Canonical Form for KPI Time-Series Extraction and Characterization
Sherri Hadian, Adrian Rebmann, Atacan Korkmaz, Gregor Berg, and Ulf Brackmann

15:15–15:30 A Provenance-Aware Workload for Representation Stability in AI Data Systems
Yigong Xiao, Kecheng Wang, Yun Wang, Niannian Huang, and Changan Zhou

15:30–15:50 Coffee Break

Session 2: AI Systems and Trustworthy Data

15:50–16:05 ScaleDiag: Diagnosing the Limits of Test-Time Scaling in GUI Grounding
Chen Liu, Zhen Fang, Xin Yu, Dadong Wang, and Ling Chen

16:05–16:20 Mining Attention Dynamics: Auditing KV-Saliency Prediction in LLMs
Ziqing Li, Jiawei Guo, Kaicheng Tang, and Jianxi Chen

16:20–16:35 LiteSemRAG: Lightweight Semantic-Aware Graph Retrieval for Robust RAG
Xiao Yue, Feng Zhang, Guangzhi Qu, and Lige Gan

16:35–16:50 Identity Is Not a Key: VesselGraph-R for Provenance-Aware Granular Entity Resolution in AIS Streams
Adam Kiersztyn, Dariusz Czerwiński, Kacper Romaniuk, Ernest Czermański, Maciej Laskowski, and Aneta Oniszczuk-Jastrząbek

16:50–17:05 A Blind, Freeze-and-Gate Data Protocol for Trustworthy Reference Assignment in Near-Skin Assessment: A Dual-Simulation Benchmark
Yigong Xiao, Xuedong Liu, Kecheng Wang, Niannian Huang, Changan Zhou, and Fangyi Lan

17:05–17:10 Paper Award Presentation

17:10–17:55 Panel Discussion

17:55–18:00 Closing Remarks D2AI 2026 Workshop Organizers

Large Models for Time Series Data Mining

W33 LM4TED

Sunday, November 15, 2026 13:30–18:00

Rome

About

This workshop focuses on large models for time series data mining. The workshop will bring together researchers and practitioners to present new methods, systems, benchmarks, and evaluations that address these challenges, and to discuss emerging opportunities and applications in practice.

Organizers



Tianyi Li
Aalborg University



Yumeng Song
Aalborg University



Raymond Chi-Wing Wong
Hong Kong University of Science and Technology



Yongluan Zhou
University of Copenhagen



Christian S. Jensen
Aalborg University

Keynote Speakers



Yushuai Li
Aalborg University

Workshop Program

Session I (13:30–15:30)

13:30–13:50 Opening Remarks

13:50–14:30 Invited Talk: Yushuai Li

Paper Session 1
12 min talk + 3 min Q&A per paper

14:30–14:45 DM321 When Do Foundation Models Pay Off? A Break-Even Analysis of Pretrained Time Series Forecasters

14:45–15:00 S10209 Beyond Scaling: Bayesian Temporal Inductive Bias for Time-Series Foundation Model Adaptation

15:00–15:15 S10207 Beyond Forecasting: Operationalizing Foundational Time Series Models for Industrial Digital Twins

15:15–15:30 DM949 DTMTimer: Dual-Path Token Merging and Cross-Modal Fusion for Multivariate Time Series Forecasting with Task-Aware LLMs

15:30–15:50 Coffee Break

Paper Session 2
12 min talk + 3 min Q&A per paper

15:50–16:05 S10201 SWAP: Adaptive Tabular In-Context Learning

16:05–16:20 S10204 VibCA-Fusion: Self-supervised Contrastive Learning for Label-Efficient Industrial Vibration Sensing and Transformer Fault Detection

16:20–16:35 S10210 LLM Agents for Anomaly Detection and Root-Cause Classification in Refrigeration Systems

16:35–16:50 S10206 Time Series Agentic AI for Energy Systems

16:50–17:05 S10205 VeriTS: Verifiable Model-Enhanced Time-Series Queries on Blockchain Systems

17:05–17:20 S10208 TS-HotIndex: Time-Series-Aware Predictive Query Indexing for Blockchain Data Retrieval

17:20–17:35 Best Paper Award Ceremony

17:35–18:00 Closing Remarks & Workshop Group Photo (all participants)

Spatial and Spatiotemporal Data Mining

W34 SSTDM

Sunday, November 15, 2026 13:30–18:00

Berlin II

About

SSTDM-2026 focuses on advances at the intersection of Geospatial AI, Machine Learning, and Spatiotemporal Computing. It brings together researchers and practitioners to develop efficient, reliable, and explainable methods for extracting geoinformation and actionable knowledge from large, heterogeneous, multimodal spatiotemporal datasets, including remote sensing, GIS, trajectory, and geo-social media data. The workshop addresses spatial autocorrelation, spatial context, spatial constraints, and modern computing requirements, with applications to challenges such as climate change and sea-level rise.

Organizers



Krishna Karthik Gadiraju
HP Enterprise, USA



Pengyang Wang
University of Macau, China

Workshop Program

13:30–13:35	Welcome from the Organizers, Dr. Pengyang Wang (University of Macau, China)	
13:35–14:15	Keynote Talk	From Generating Cities to Editing Cities: Agents That Act on Spatiotemporal Systems Prof. Dongjie Wang, Northeast Normal University
14:15–14:35	Paper S27203	Context-Aware Granules Support Remote Wildlife Monitoring Through Stable Movement-State Discovery Adam Kiersztyn, Wanda Olech-Piasecka, Rafał Łopucki, Kajetan Perzanowski, Aleksander Bołbot, and Kacper Romaniuk
14:35–14:55	Paper S27204	Towards Deep Spatial Emulators for Reconstructing Ocean Carbon Uptake Sweety Mohanty, Daniyal Kazempour, Jakob Meggendorfer, Lavinia Patara, Willi Rath, and Peer Kröger
14:55–15:15	Paper S27205	D-TINs for Track-Sampled Ice Sheet Surface Reconstruction from Satellite Altimetry Data Xiaoyu Xia, Noah Bergam, and Abani Patra
15:15–15:35	Paper DM596	Heterogeneous Spatiotemporal Graph Networks for Corporate Credit Default Early Warning Tommy C.H. Ho, Vincent C.S. Lee, and Arif Perdana
15:35–15:50	Coffee Break	
15:50–16:10	Paper DM1210	PhaseMamba: Time-Aware Mamba Backbone with Phase-Level Transformer Attention for Sequential Recommendation Liangju Huang, Haodong Yang, and Jia Cai
16:10–16:30	Paper DM1248	Powerful Switchback Experiments -- Or Not? Sergei Pankratev
16:30–16:50	Paper DM1527	A Skillized Dual-Memory Agent Framework for Intent-Aware Freight Routing Lin Zhang, Yangjinjin Liu, Yifei Luo, Junjie Li, Yu Liu, Ye Shi, and Xingliao Wan
16:50–17:10	Paper DM1564	SAECP: Scale-Aware Error-Correction Probabilistic Forecasting for Sparse Hierarchical Time Series Shengnan Di, Zhidong Li, Bin Liang, Fang Chen, and Jianlong Zhou
17:10–17:15	Break	
17:15–17:35	Paper DM1702	DCD: Decomposition-based Causal Discovery from Autocorrelated and Non-Stationary Temporal Data Muhammad Hasan Ferdous and Md Osman Gani
17:35–17:55	Paper DM1856	When Does Physics Beat Data? Data-Efficient Traffic State Estimation with Amortized PINNs Anna Lazareva and Alexander Tarakanov
17:55–18:00	Closing Remarks, Dr. Pengyang Wang	

Data Mining for Service

W35 DMS

Thursday, November 12, 2026 15:50–17:28

London

About

The International Workshop on Data Mining for Service (DMS 2026) provides a forum for researchers and practitioners to discuss recent advances in data mining, machine learning, artificial intelligence, and analytics for service systems. The workshop focuses on the development of data-driven methods that support decision making, service design, customer experience management, healthcare, retail, finance, smart cities, and other service-oriented domains. The workshop aims to promote collaboration between academia and industry and to advance both methodological innovation and practical impact in service science.

Organizers



Shusaku Tsumoto
Shimane University, Japan



Katsutoshi Yada
Kansai University, Japan

Workshop Program

15:50–15:54	Opening Remarks	Workshop Chairs

Session 1: Industrial Data & Predictive Analytics
Session Chair: TBA

15:54–16:08	Paper S17201	Ship Fuel Consumption Prediction Based on LightGBM-LSTM Fusion Model Wenqi Guo, Yi Zuo, and Xinyu Li
16:08–16:22	Paper S17203	Maritime Noise-Robust Whisper via Encoder Representation Consistency Liao Bao, Tomoyuki Takenawa, and Yi Zuo
16:22–16:36	Paper S17216	Operational Fuel Sales Forecasting Under Heterogeneous Historical Data Availability Bhavani Madhabhavi, Aravind Balachandran, Sharat Chidambaran, and Somenath Chatterjee
16:36–16:50	Paper DM1083	Vision-Language Models for Meteorological Services: A High-Quality Data-Centric Approach Baowen Xu, Xuelei Wang, and Song Gao
16:50–17:04	Paper S17212	Machine Learning Prediction of Vacant House Prices Using Geospatial and Regional Features Hikaru Hashii and Eiji Motohashi
17:04–17:18	Paper S17202	Mining SME Innovation Profiles through Self-Organizing Maps: A Three-Year Study of Service and Industrial Firms Adam Kiersztyn, Krystyna Kiersztyn, Kacper Romaniuk, Agnieszka Rzepka, and Anna Jasińska-Biliczak

Session 2: Service Analytics & Consumer Behavior
Session Chair: TBA

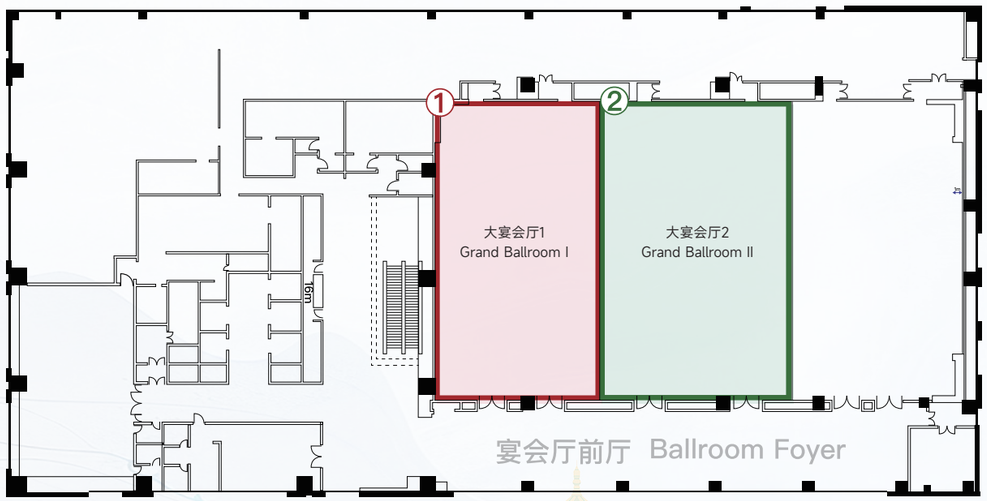
17:28–17:42	Paper S17204	How Short-Form Videos Shape Consumer Responses under Uncertainty in Marketing Hao Wang and Rei Tada
17:42–17:56	Paper S17215	Predicting User Preferences with User Representations Pretrained from Large-Scale Retail Purchase Histories Takumu Watanabe, Yuta Sawada, Suguru Takata, Koki Nagatani, Ryoichi Miura, Shun Ito, and Emiko Nakagishi
17:56–18:10	Paper S17214	Response-Adjusted Moment Calibration for Budgeted Survey Allocation Taiga Nishimura, Yuta Ota, Kazuki Tsuchiya, Shinya Suzumura, Nobuyuki Shimizu, and Takahiro Hoshino
18:10–18:24	Paper S17217	Knowledge Elicitation with Sparring Partner Preetam Ghosh, Vaishali Sadaphal, Himani Bhamare, Rohan Hirekerur, and Abhijit Bhirud
18:24–18:38	Paper DM1185	In-Memory Association Rule Mining with Hierarchical Taxonomies Anders Weber Christensen, Kevin Kinsella, and Panagiotis Karras
18:38–18:48	Paper S17223	Clinical Process Mining based on Petri-Nets Shusaku Tsumoto
17:18–17:28	Closing Remarks	Workshop Chairs

Tutorials

ID	Tutorial	Day	Time	Room
1	Graph Learning in the Large Model Era: Towards Riemannian Graph Foundation Models	Friday November 13, 2026	10:10-12:10	Grandball I
2	AI-powered High Quality Data Management	Friday November 13, 2026	10:10-12:10	Grandball II
3	Neuro-Symbolic Reasoning with Large Language Model and Knowledge Graph	Saturday November 14, 2026	10:10-12:10	Grandball II
4	Graph Computation in Modern Data Mining: Query Processing, Trustworthy Analytics, and LLMs	Saturday November 14, 2026	10:10-12:10	Grandball I
5	Bridging LLMs and Database Systems: From Enhanced Relational Operators to Intelligent Data Agents	Sunday November 15, 2026	10:10-12:10	Grandball II
6	Context-Aware Time Series Forecasting with LLMs: From Pattern Recognition to Cognitive Reasoning	Sunday November 15, 2026	10:10-12:10	Grandball I

沈阳富力万达文华酒店3楼会议室

Wanda Vista Shenyang conference room on 3F



Tutorial-1

Graph Learning in the Large Model Era: Towards Riemannian Graph Foundation Models

Date Friday, November 13, 2026 | **Time** 10:10-12:10 | **Room** Grand Ballroom I

About

Graphs are the fabric of spatial intelligence, multi-agent system and biological structures, showing fundamental importance in the era of large models. The rise of foundation models has motivated Graph Foundation Models (GFMs), yet current methods often struggle with structural heterogeneity, transferability, and interpretability. This tutorial introduces the advances in GFMs. We start from the roles of graphs in the era of large models, and then provide a unified geometric perspective. Furthermore, we introduce Geometric Morphology Learning and Sheaf Networks for learning graphs and structures. Participants will leave with a coherent view of how graph and geometry empower artificial general intelligence.

Schedule

- 10:10-10:30 **On the Next-Generation Structural Intelligence** — Philip S. Yu
- 10:30-11:00 **Graph Foundation Model** — Li Sun
- 11:00-11:30 **Geometric Morphology Learning Theory** — Li Sun
- 11:30-11:50 **Graph Learning Applications in the Era of Large Models** — Chuan Shi
- 11:50-12:10 **Sheaf Network Theory and Applications** — Pietro Liò

Speakers



Philip S. Yu
University of Illinois Chicago
IEEE/ACM Fellow



Li Sun
Beijing University of Posts and Telecommunications



Chuan Shi
Beijing University of Posts and Telecommunications



Pietro Liò
University of Cambridge
Member of Academia Europaea

Tutorial-2

AI-powered High Quality Data Management

Date Friday, November 13,2026 | **Time** 10:10-12:10 | **Room** Grand Ballroom II

About

High-quality data is essential for data mining and machine learning, yet manual and rule-based management cannot effectively address complex anomalies. AI-powered high quality data management overcomes these limitations by applying machine learning, deep learning, and large language models to enable autonomous adaptation and contextual understanding. This tutorial reviews AI-driven advances in three technologies for creating and maintaining high-quality datasets: data discovery, data preparation, and data integration. It presents case studies involving relational, graph, and spatio-temporal data. By connecting methodologies with applications, the tutorial equips researchers and practitioners with tools for intelligent data management and encourages interdisciplinary research in data-centric AI.

Schedule

10:10-10:15 **From Raw Data to Reliable Intelligence: The Role of AI-Powered Data Management**
Yunjun Gao

10:15-10:45 **Efficient Data Discovery with Heterogeneous Indexes and Modern Hardware**
Yifan Zhu

10:45-11:15 **Automatic Data Preparation in the Age of AI**
Congcong Ge

11:15-11:40 **Intelligent Data Integration: From Schemas to Entities**
Qing Liu

11:40-12:10 **Advanced Graph-driven Data Management**
Ying Zhang

Speakers



Yunjun Gao
Zhejiang University



Yifan Zhu
Zhejiang University



Congcong Ge
Zhejiang University



Qing Liu
Zhejiang University



Ying Zhang
Zhejiang Gongshang University

Tutorial-3

Neuro-Symbolic Reasoning with Large Language Model and Knowledge Graph

Date Saturday, November 14, 2026 | **Time** 10:10-12:10 | **Room** Grand Ballroom II

About

LLMs have demonstrated remarkable performance on different reasoning tasks because of their superior capabilities in natural language understanding, but still struggle with complex tasks such as multi-hop reasoning and long-context reasoning. In this tutorial, we will introduce the state-of-the-art advances in neuro-symbolic reasoning with LLM and KG. The main topics cover neuro-symbolic logical reasoning, KG foundation model, and applications in interdisciplinary science. The technical details will be showcased, and the open challenges are also summarized.

Schedule

10:10-10:25 **Overview of Knowledge Graph and Large Language Model for Neuro-Symbolic Reasoning**
Haofen Wang

10:25-11:00 **Neuro-Symbolic Logical Reasoning with Large Language Model**
Tianxing Wu

11:00-11:35 **Knowledge Graph Foundation Models for Neuro-Symbolic Reasoning**
Zequn Sun

11:35-12:10 **Neuro-Symbolic Reasoning for Interdisciplinary Science**
Meng Wang

Speakers



Haofen Wang
Tongji University



Tianxing Wu
Southeast University



Zequn Sun
Nanjing University



Meng Wang
Tongji University

Tutorial-4

Graph Computation in Modern Data Mining: Query Processing, Trustworthy Analytics, and LLMs

Date	Time	Room
Saturday, November 14, 2026	10:10-12:10	Grand Ballroom I

About

Graphs underpin data science, from social platforms and knowledge bases to financial systems and AI-driven applications. As graph data becomes larger, more dynamic, more sensitive, and integrated with large language models, graph computation must evolve beyond isolated algorithms or learning models. This tutorial begins with an introduction to modern graph computation and then examines four complementary themes: scalable graph query processing, privacy-preserving graph analytics, graph-based financial security, and LLM-assisted graph reasoning. By connecting algorithmic foundations with requirements for privacy, robustness, scalability, and verifiability, it provides a coherent understanding of modern graph computation for the data mining and machine learning community.

Schedule

10:10-10:25	**Introduction to Modern Graph Computation** Wenjie Zhang
10:25-11:00	**Graph Query Processing** Qingshuai Feng
11:00-11:25	**Trustworthy Graph Analytics** Yizhang He
11:25-11:50	**Graph for Financial Security** Dawei Cheng
11:50-12:10	**LLMs for Graph Computation** Kai Wang

Speakers



Wenjie Zhang
School of Computer Science and Engineering, UNSW Sydney
ARC Future Fellow



Qingshuai Feng
School of Advanced Engineering, Great Bay University



Yizhang He
Global College, Shanghai Jiao Tong University



Dawei Cheng
School of Computer Science and Technology, Tongji University



Kai Wang
Antai College of Economics and Management, Shanghai Jiao Tong University

Industrial Tutorial-5

Bridging LLMs and Database Systems: From Enhanced Relational Operators to Intelligent Data Agents

Date	Time	Room
Sunday, November 15, 2026	10:10-12:10	Grand Ballroom II

About

Large language models (LLMs) are transforming relational data processing in two synergistic directions: as operator-level primitives—LLM-Enhanced Relational Operators (LROs)—and as the reasoning core of intelligent data agents that orchestrate these operators end-to-end. This tutorial provides a comprehensive 2.5-hour introduction spanning two complementary perspectives: (1) the operator perspective—a formal LRO taxonomy, multi-LRO system architectures, optimization techniques, and benchmark methodology; and (2) the agent perspective—how LROs serve as building blocks within data agents, featuring structured context management, layered skill orchestration, and self-evolving evaluation frameworks. We bridge these perspectives through a unified view of LLM–database co-design, covering both foundational theory and practical system implementations.

Schedule

10:10-10:30	**Introduction and Background** Jingren Zhou & Bolin Ding
10:30-11:10	**LLM-Enhanced Relational Operator** Yunxiang Su
11:10-11:50	**Data Agent** Tianjing Zeng
11:50-12:10	**Summary and Future Work** Rong Zhu

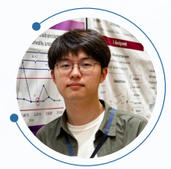
Speakers



Jingren Zhou
Alibaba Group
IEEE/ACM Fellow



Bolin Ding
Alibaba Group



Yunxiang Su
Alibaba Group



Tianjing Zeng
Alibaba Group



Rong Zhu
Alibaba Group

Industrial Tutorial-6

Context-Aware Time Series Forecasting with LLMs: From Pattern Recognition to Cognitive Reasoning

Date	Time	Room
Sunday, November 15, 2026	10:10-12:10	Grand Ballroom I

About

This tutorial explores advances in context-aware time series forecasting with large language models, moving beyond historical pattern recognition toward context-grounded cognitive reasoning. It explains why real-world forecasts depend not only on temporal patterns, but also on external environments, events, domain knowledge, and system states. The tutorial introduces three generations of context intelligence: multimodal semantic understanding, slow-thinking reasoning over predictive evidence, and agentic interaction with tools and environments. It shows how these capabilities support interpretation, reasoning, and information acquisition, with representative applications in electricity load forecasting, renewable power generation, traffic, industry, and scientific forecasting, while highlighting open challenges and future directions.

Schedule

- 10:10-10:30 — **Introduction & Motivation: From Pattern Recognition to Context-Grounded Cognitive Reasoning**
  Qi Liu
- 10:30-10:55 — **Multimodal Semantic Understanding of Heterogeneous Context**
  Mingyue Cheng
- 10:55-11:25 — **Slow-Thinking Cognitive Reasoning over Predictive Evidence**
  Mingyue Cheng
- 11:25-11:55 — **Agentic Autonomous Interaction with Tools and Environments**
  Hao Miao
- 11:55-12:10 — **Real-World Applications, Open Problems & Future Directions**
  Hao Miao

Speakers



Qi Liu
University of Science and Technology of China



Mingyue Cheng
University of Science and Technology of China

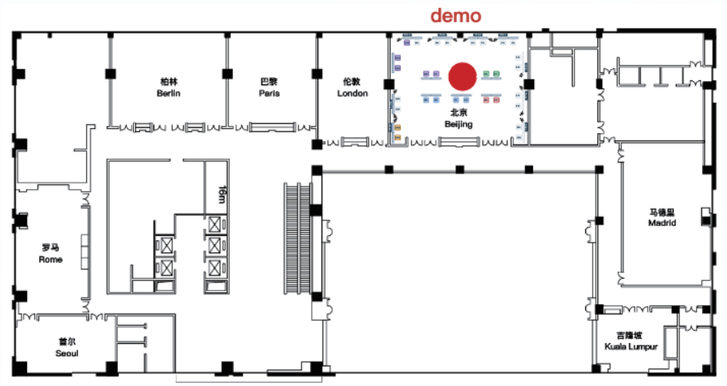


Hao Miao
University of Electronic Science and Technology of China

Demos

Saturday, November 14, 2026 13:30–16:10
Beijing, 2nd Floor

Second-Floor Layout



Beijing Room Floor Plan

Demo Poster Locations



D01–D32: Demo IDs. Two posters per table. TV labels indicate the number of screens.

Matching colors indicate posters with one or more authors in common.

The demo track of ICDM 2026 aims to provide a platform for researchers and practitioners to showcase innovative, fully-implemented data-mining systems via interactive demonstrations, allowing conference attendees to get hands-on experience with new developments in data mining. This year the demo track accepts 32 submissions, covering a wide range of frontier topics including interactive graph analytics, data lifecycle management, LLM agent systems, and so on.

D01 S33244 NovaGraph: Interactive Graph Analytics, Locally in the Browser
Ziyao Lu*, Liuyi Chen, Yifu Tang, Merry Rosalie, Tuan Minh Truong, Simin Wu, Yuchao Jiang, Zhengyi Yang

D02 S33243 EulerESG: A Unified Platform for Standards-Aware ESG Disclosure Analysis
Yi Ding, Zhengyi Yang*, Yiheng Lu, Lingjing Lan, Yifu Tang, Zihan Yang, Xushuo Tang, Jiayu Hu, Mingchen Ju, Wenqian Zhang, Wenke Yang, Xiwei Xu, Wenjie Zhang

D03 S33242 PITFALL: Catching Point-in-Time Violations in Multi-Table Feature Pipelines by Differential Execution
Stanislav Chumakov*, Danil Ezhov, Alexander Boukhanovsky

D04 S33241 AgentWorld: A Data Factory for Training LLM Agents from Multi-Turn Interactions
Daoyu Wang, Mingyue Cheng, Qingchuan Li, Shuo Yu, Jie Ouyang, Qi Liu, Enhong Chen

D05 S33239 RunZe: A Knowledge-Enhanced Multimodal Agent System for TCM-Based Atopic Dermatitis Diagnosis and Treatment
Xinyu Wang, Zihao Wang, Chenyuan Zhu, Haiwei Wu, Linyan Cheng, Fulun Li, Xiaoling Wang

D06 S33238 A Believability–Reliability Dashboard: An Interactive Diagnostic Tool for LLM-Agent Social Simulations
Sayedali Mohseni, sobhan salarian, Hadi Mohammadzadeh Abachi, Usman Shahbaz, Amin Beheshti

D07 S33237 Hone: Mining Agent Trajectories to Optimize AGENTS.md via Cross-Examination
Alexey Lapin, Nikolay Nikitin

D08 S33240 IndiaMediaLens: A Real-Time System for Monitoring Political Tone in Indian News Media
Rupsha Ray, Anirban Sen

D09 S33234 Interactive Physics-Informed Virtual Sensing for Non-Contact Overhead Power Distribution Line Fault Diagnosis
Andrey Bramm, Alexandra Khalyasmaa, Pavel Matrenin, Stanislav Eroshenko

D10 S33236 UniDataAgent: An Ontology-Grounded Agent for Enterprise Question-to-Report Automation
Yutai Duan, Yahui Zhao, Zhangti Li, Yu Ma, Zhenfeng Qi, Shaoyang Yuan, Jing Fan, Jie Liu

D11 S33233 HyFin: An LLM-Driven Platform for Hybrid Text-and-Table Financial Report Analysis
Runze Tian, Jingyuan Xue, Zihan Yang, Yifu Tang, Liuyi Chen, Yiming Huang, Jianke Yu, Bocheng Han, Yiwen Fang, Jiahui Jin, Zhengyi Yang

D12 S33217 checkAI: A System for Multimodal Robustness Testing, Risk Scoring, and Reporting
Ilya Petrovanov, Anton Sergeev, Vladimir Bashun, Bulat Mukhametdinov

D13 S33230 CastClaw: A Human-in-the-Loop Autonomous Agent for Industry Time Series Forecasting
Xiaoyu Tao, Mingyue Cheng, Ze Guo, Bokai Pan, Qi Liu, Shijin Wang, Enhong Chen

D14 S33210 REQ2SITE: A Deployed Conversational Agent for Industrial Real Estate Selection
Jiyuan Long, Hongyu Zhao, Yuanbiao He, Jinqiu Pu, Lan Chen, Xiao Zou, Xuanbo Wang, Pan Zhou, Zhen Lei, Zirun Wang, Xi Yu, Qi Zhu, Jiayu Bai, Chao Zhang, Yuan Zhou, Peng Li

D15 S33229 PAUK: Mining an Institutional Knowledge Graph of People, Publications and Research Software
Andrey Getmanov, Ekaterina Ulyanova, Aleksandr Shiianov, Nikolay Odegov, Artem Sidorov, Roman Shibaev, Nikolay Nikitin, Julia Borisova

D16 S33228 A Typed Research Graph for Verifiable Multi-Agent Scientific Workflows
Ivan Gurev, Gleb Solovev, Evgenii Klokov, Anastasia Vepreva, Anastasia Orlova, Denis Chistiakov, Rodion Golovinskii, Nikolay Nikitin, Anna Kalyuzhnaya

D17 S33227 Cost-Effective Change Localization in Software Repositories with a Temporal Knowledge Graph
Nikolay Nikitin, Andrey Getmanov, Andrey Myaskov, Denis Fokin

D18 S33224 Cut Binary Cross Entropy: Efficient Large-Vocabulary Loss and Gradient Kernels for Sequential Recommendation
Yaoyiran Li, Haowen Ning, Mohamed Hammad

D19 S33223 MinerRAG: A Trustworthy GeoAI System for Mining Stope Safety
Shuaijie Tong, Weilong Ding, Xinyv Yang

D20 S33222 AdaptRNA: An Extensible RNA Foundation Model Agent with Adapters as Tools
Mohammadhossein Ahmadi, Amin Beheshti

D21 S33221 DenoiseAPT: Hybrid Generative Time-Series Denoising for Anomaly Preservation
Alireza Shammasi, Amin Beheshti

D22 S33220 PROVE-Gene: An Evidence-Grounded Multi-Agent Workbench for Gene Knowledge and Data Analysis
Menghao Guo, Chen Wang, Jingling Jiang, Wen Wu, Yunlong Xue, Xinhang Li, Qiang Peng, Jinyue Zhang, Qiang Han, Chunling Zhang, Linqing Feng, Gaoxiang Chen

D23 S33216 AptaRank: Interpretable Ranking and Target-Aware Annotation of Foundation-Model-Generated RNA Aptamers
Laura Hardy, Ali Shahsavandi, Mohammadhossein Ahmadi, Ian Paulsen, Amin Beheshti

D24 S33215 M2TAP: A 3D Indoor Multilayer Spatial Task Assignment Platform
Weiyi Chen, Xiyue Hu, Yutao Wang, Ruitao He, Leilei Du, Wangze Ni, Peng Cheng, Lei Chen, Xuemin Lin, Kui Ren

D25 S33213 Declarative Explanations for Graph Neural Networks: A Demonstration
Cibo Yu, Haitong Tang, Yinghui Wu, Arijit Khan, Tingting Zhu, Tingyang Chen, Xiangyu Ke

D26 S33212 Expert Replay for GNN-RL Routing on Perturbed Graphs
Amir H. Shahriari, Rongwei Xu, Amin Beheshti, Jia Wu, Guanfeng Liu

D27 S33211 HeliosTrace: Profiling Data Mining Pipelines on Apple Silicon GPUs with Unified Memory
Yizhe Zhang, Zhengyi Yang, Xin Cao

D28 S33205 RenewableXAI: Model-Exact Explanation Stability for Renewable Energy Forecasting
Pavel Matrenin, Alexandra Khalysmaa, Stanislav Eroshenko, Andrey Bramm

D29 S33204 EAPO-PRISMA: An Interactive Hybrid System for Multilingual Patent Similarity Search
Anna Klimova, Sergey Efimov

D30 S33203 Detect, Localize, and Explain: Interactive Hierarchical Log Anomaly Analytics with LLM Augmentation
Lei Ma, Suhani Chaudhary, Ethan Shanbaum, Athanasios Tassiadamis, Peter VanNostrand, Dennis Hofmann, Haowen Xu, Elke Rundensteiner

D31 S33202 FaruiDoc: A Multi-Agent System for Chinese Legal Document and Citation Generation
Kaisong Song, Jun Lin, Hongye Song, Qian Xiao, Xurui Li

D32 S33209 From Literature to Hypotheses: An AI Co-Scientist System for Biomarker-Guided Drug Combination Hypothesis Generation
Raneen Younis, Suvinava Basak, Lukas Chavez, Zahra Ahmadi

Posters

Chair

Xiang Li (East China Normal University), Chen Zhao (Baylor University)

About

The ICDM 2026 Poster Track offers an interactive platform for researchers to present recent advances in data mining and related fields. It encourages direct exchange between presenters and attendees, enabling in-depth discussion, constructive feedback, and the exploration of new research ideas. By bringing together researchers from academia and industry, the Poster Track aims to promote knowledge sharing, foster collaboration, and highlight emerging topics and innovative approaches across the broad data mining community.

Schedule

Friday, November 13, 2026 15:50-17:20
Poster Session 1 (L)
Foyer 2F, Foyer 3F

Saturday, November 14, 2026 14:40-16:10
Poster Session 2 (S)
Foyer 2F, Foyer 3F

Chairs



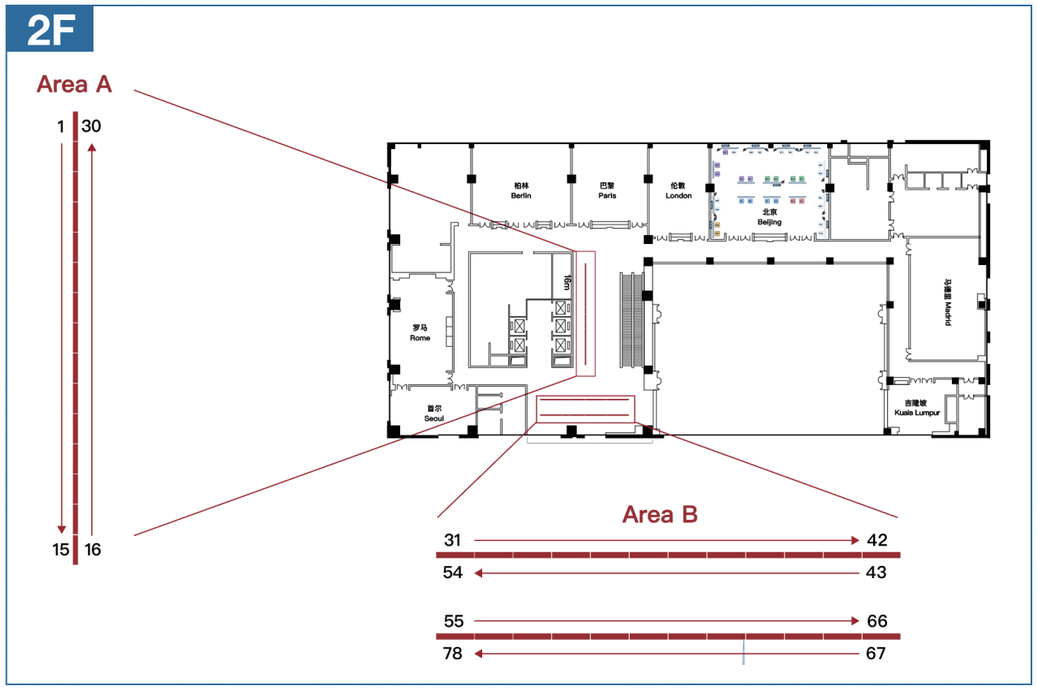
Xiang Li

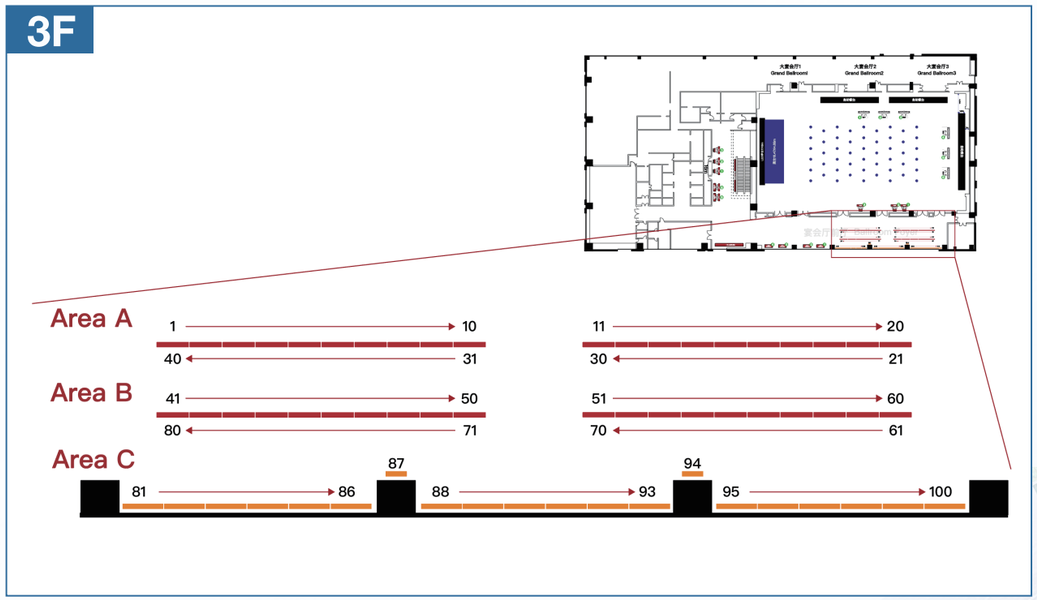
East China Normal University



Chen Zhao

Baylor University





Poster Layout

Refer to the Session Details section for individual paper Poster IDs.
Poster ID P1-3A-1 means Poster Session 1, 3F, Area A, No. 1.

Women Forum

Friday, November 13, 2026 10:10–12:10
VIP Room
Xiaoling Wang (East China Normal University), Richi Nayak (Queensland University of Technology)
Li Qian (Chinese Academy of Sciences)
Li Qian (Chinese Academy of Sciences)

About

The IEEE ICDM 2026 Women Forum brings together researchers and students to celebrate women's contributions to data science and exchange ideas on research and career development. The programme features invited talks by Claudia Plant, My T. Thai and Wenjie Zhang, followed by short research presentations from the Female Scholar/Student Awards finalists and an open discussion. Researchers of all genders and career stages are welcome to join, share experiences and build connections.

Schedule

Invited Talks (10:15-10:45)

10:10–10:15	**Welcome and Opening Remarks** Women Forum Co-Chairs
10:15–10:25	**Promoting Diversity in Data Mining and Machine Learning Research** Claudia Plant
10:25–10:35	**Do What You Love. Let the Rest Follow** My T. Thai
10:35–10:45	**From Research Ideas to Impact: Building a Research Career and Collaborations** Wenjie Zhang

Young Female Scholar Award Finalists (10:45-11:25)

10:45–11:25	**Young Female Scholar Award Finalists**
10:45–10:53	**Toward Trustworthy Learning Under Imperfect Data: A Decade in Software Prediction** Liyan Song
10:53–11:01	**Learning Better Structures and Low-Distortion Representations for Graphs** Qingyun Sun
11:01–11:09	**Brain Graph Learning for Neurodegenerative Disease Diagnosis** Shuo Yu
11:09–11:17	**Exploring multi-modal learning in unsupervised conditions** Yalan Qin
11:17–11:25	**Key Technologies for Scientific and Technological Big Data Mining, Retrieval, and Intelligent Decision-Making** Yawen Li

Female Student Award Finalists (11:25-11:57)

11:25–11:57	**Female Student Award Finalists**
11:25–11:33	**Advancing Data Science for Urban Intelligence** Chenya Huang
11:33–11:41	**What Can We Learn About the Future from Time-Series Data?** SheoYon Jhin
11:41–11:49	**Causal Inference in Networked Data: Estimating Peer Effects under Interference** Xiaojing Du
11:49–11:57	**Learning from Distribution Shift in Time-Series Forecasting.** Xiaoyang Li
11:57–12:10	**Certificate Presentation and Closing Remarks** Women Forum Co-Chairs

Chairs



Xiaoling Wang
Northeast University, China



Richi Nayak
Queensland University of Technology, Australia



Li Qian
Chinese Academy of Sciences, China

Keynote Speakers



Claudia Plant
University of Vienna, Austria



My T. Thai
University of Florida, USA



Wenjie Zhang
University of New South Wales, Australia

Finalists' Information

Young Female Scholar Award Finalists



Liyan Song
University of Vienna, Austria



Qingyun Sun
Beihang University, China



Shuo Yu
Dalian University of Technology, China



Yalan Qin
Shanghai University, China



Yawen Li
Beijing University of Posts and Telecommunications, China

Female Student Award Finalists



Chenya Huang
University of Technology Sydney, Australia



SheoYon Jhin
School of Computing, KAIST, South Korea



Xiaojing Du
Adelaide University, Australia



Xiaoyang Li
Adelaide University, Australia

Education Forum

Saturday, November 14, 2026 10:10-15:30

VIP Room

Haipeng Dai (Nanjing University)

Bing Li (University of Electronic Science and Technology of China)

Zhe Xue (Beijing University of Posts and Telecommunications)



About

The ICDM 2026 Education Forum will bring together educators, researchers, and industry practitioners to reimagine data mining education in the era of foundation models. Featuring a keynote address, an interactive workshop, and an education panel, the forum will explore how advances in AI are reshaping curricula, teaching practices, and the skills students need for professional success. Key topics include bridging the gap between academic training and industry needs, using educational data mining to inform continuous teaching improvement, and integrating experiential learning and responsible AI into the curriculum. Through discussion and practical exchange, the forum aims to advance data-driven educational practices and strengthen the pathway from classroom learning to careers in data mining and AI.

Schedule

01	10:10-10:15	**Open Remarks**
02	10:13-11:00	**Deeper and Personalized: Rethinking Undergraduate Learning with AI** Prof. Wei Wang
03	11:00-12:10	**Session 1**
04	11:00-11:10	**S37215 — Human-GenAI Collaborative Pedagogy and Learning Analytics for HPC Education with Industrial Software Practice** Nan Hu, Yiyang Chen, Ruihui Li, Zhuo Tang, and Kenli Li
05	11:10-11:20	**S37205 — Ownership Tracing in AI Tutoring: Correcting Apparent Mastery with Source-of-Practice Evidence** Sichao Li, Weiyuan Wang, Sai Ma, Ye Wei, and Zhengyi Yang
06	11:20-11:30	**S37213 — Sustaining Project-Based Learning at Scale: A Three-Tier Feedback Architecture with Student Jury and Mentor Pipeline** Yana Demyanenko, Pavel Oganesyan, Ilia Loshkarev, Andrey Nikolaev, Ekaterina Dots, and Vladislav Krylov
07	11:30-11:40	**S37218 — Quantitative Competency Referential Alignment for Curriculum-Labor Market Analysis** Amine Boulahmel and Gregory Smits
08	11:40-11:50	**S37219 — COGENT: An Evidence-Driven Multi-Agent Tutoring System for Goal-Oriented AI Education** Jing Dong, Shuyan Chen, Jiani Lv, Zheng Li, Anan Du, Fu Li, and Shuchao Pang
09	11:50-12:00	**S37223 — Understanding Vibe Coding in University Programming Education** Yanshan Zeng, Guozheng Li, and Chi Harold Liu
10	13:30-14:30	**Session 2**
11	13:30-13:40	**S37214 — LiquidKT: Tracking the Continuous Dynamics of Knowledge Acquisition and Memory Decay** Feng Ding, Xiaobo Liu, Mingliang Hou, and Shuo Yu
12	13:40-13:50	**S37211 — Interpretable Fuzzy Granular-Ball Modeling for Trustworthy Early Identification of At-Risk Students** Haoran Zhang
13	13:50-14:00	**S37220 — Cold-Start Aware Advisor Recommendation for Early Undergraduate Research: Profile-Gated Multi-Route Retrieval and Reranking** Xizhi Wang and Qingyun Sun
14	14:00-14:10	**S37207 — Explainable Educational Data Mining of Gen-Z Leadership Expectations: Predicting Workplace Engagement Decisions from Student Perceptions of Managerial Soft Skills** Agnieszka Rzepka, Anna Jasińska-Biliczak, Katarzyna Hys, Anna Kowalczyk-Kroenke, Adam Kiersztyn, and Jakub Chromiak
15	14:10-14:20	**S37206 — AI-Empowered Teaching Reform in Police Education: A Workflow-Guided Case Tutor Exemplified in Economic Crime Investigation** Yang Yang and Bo Ren
16	14:20-14:30	**S37217 — Loop SQLing: A Closed-Loop Multi-Agent Pedagogical Framework for SQL Project Practice** Longfei Yu, Dejun Teng, and Zhaohui Peng
17	14:30-15:30	**Education Panel: Reimagining Data Mining Education in the AI Era: Industry-Academia Collaboration and Data-Driven Talent Development** Xianping Tao, Libing Wu, Bohan Li, Lexi Xu, Tao Li

Chairs



Haipeng Dai
Nanjing University



Bing Li
University of Electronic Science and Technology of China



Zhe Xue
Beijing University of Posts and Telecommunications

Keynote Speaker



Wei Wang
Hong Kong University of Science and Technology (Guangzhou)

Dr. Wei Wang is a currently a Professor and Associate Dean in the Information Hub, The Hong Kong University of Science and Technology (Guangzhou), China. His current research interests include Large Language Models, Integration of DB and AI Technologies, Deep Learning, and Cross-disciplinary Research. He has published over two hundred research papers, with most of them in premier journals and conferences. He has won the Best Vision Paper Award at SIGSPATIAL'24, Best Paper Awards at ICASSP'23, SIGCOMM'22, and ICMR'21, and Best Student Paper Award at DASFAA'16.

Panelists



Bohan Li
Nanjing University of Aeronautics and Astronautics



Xianping Tao
Nanjing University



Lexi Xu
China Unicom Research Institute



Libing Wu
Wuhan University



Tao Li
China Telecom Cloud Technology

BlueSky Forum

Saturday, November 14, 2026 13:30-16:10
Madrid
Jipeng Qiang (Yangzhou University), Mengke Li (Shenzhen University)

Chairs



Jipeng Qiang
Yangzhou University



Mengke Li
Shenzhen University

Schedule

13:30–13:35 **Opening Remarks** Jipeng Qiang & Mengke Li

Session 1 (13:35–14:40)

13:35–13:41 S32201
From Event Logs to Governed Action: A BlueSky Agenda for Agentic Process Mining

13:41–13:47 S32202
Revisiting Self-Attentive Sequential Recommendation Beyond the LLM Paradigm

13:47–13:53 S32204
Data Mining in the Age of World Models: A BlueSky Vision

13:53–13:59 S32210
GraphAgent: From Tool-Using to Graph-Thinking Agents for Autonomous Graph Problem Solving

13:59–14:05 S32211
The Future Is Not One Sequence: A BlueSky Agenda for Future Contingency Mining

14:05–14:11 S32218
Toward an Industrial Brain: Making Defect Inspection Experience Reusable

14:11–14:17 S32219
When the Miner is the Generator: Rethinking the Separation Axiom in LLM-Driven Data Mining

14:17–14:23 S32220
Explaining Changes in Evolving Systems

14:23–14:29 S32222
From Output Quality to Auditability: A Data Mining Agenda for LLM-Generated Artifacts

14:29–14:40 **Session 1 Block Q&A and Remarks**

Session 2 (14:40–16:00)

14:40–14:46 S32225
From Scaling Laws to Evolution Laws: Forecasting and Steering the Fate of Self-Evolving AI Systems

14:46–14:52 S32226
Toward Biological Active Memory: A Memory-Centric Paradigm for Future Automated Biological Research

14:52–14:58 S32227
Knowing What They Don't Know: An Agenda for Sample-Frame-Aware Data Mining Agents

14:58–15:04 S32228
From Speaking to Communicating: A BlueSky Vision for Paralinguistic Intelligence

15:04–15:10 S32230
You'll Never Diagnose Alone: An Evidence-Centric Agenda for Medical MLLMs

15:10–15:16 S32233
Mining the Self-Rewriting System: A Vision for Data Mining on AI-Native Infrastructure

15:16–15:22 S32235
Memory Has Geometry: Non-Uniform Geometric Memory for Long-Horizon Personalized AI

15:22–15:28 S32236
Keeping Software Knowledge Alive: Toward Shared Semantic Views for Human-Agent Software Evolution

15:28–15:34 S32238
When Prediction Shapes the Future: A BlueSky Agenda for Reflexive Time Series Analysis

15:34–15:40 S32239
Mining Evidence-Linked Claims from Software Repositories for Contradiction-Aware Knowledge Diagnosis

15:40–16:00 **Session 2 Block Q&A & Closing Remarks**

Teen Research Symposium

Saturday, 14 November 2026

Time	Topic	Venue
08:00–08:30	**Registration & Posters Pickup**	Wanda Vista Shenyang
08:30–08:50	**Organizer & Program Introduction** Yanjie Fu, Canh V. Pham, Leixia Wang	Wanda Vista Shenyang Beijing
08:50–09:20	**Keynote 1** Claudia Plant	
09:20–09:50	**Keynote 2** Raymond Chi Wing Wong	
09:50–10:00	**Attendance Certification Distribution** Claudia Plant, Raymond Chi Wing Wong	
10:00–10:10	**Tea Break**	/
10:10–12:10	**Poster Presentation**[1] All Authors	Wanda Vista Shenyang Beijing & Madrid
12:10–13:30	**Lunch**	Wanda Vista Shenyang (Grand Ballroom III 3F & Cafe Vista 1F & Lobby Bar 1F)
13:30–14:00	**Venue Transfer**	/
14:10–14:35	**Dome Theater Film**[2]	Liaoning Science and Technology Museum Dome Theater
14:35–14:45	**Intra-venue Transfer & Break**	/
14:45–16:45	**AI Hands-on Workshop** (Teenager Only)[3]	Liaoning Science and Technology Museum Meeting Room 4, 3rd Floor
16:45–17:00	**Attendance Certification Distribution & Close** Tiancheng Liu, Fei Ding	

Notes

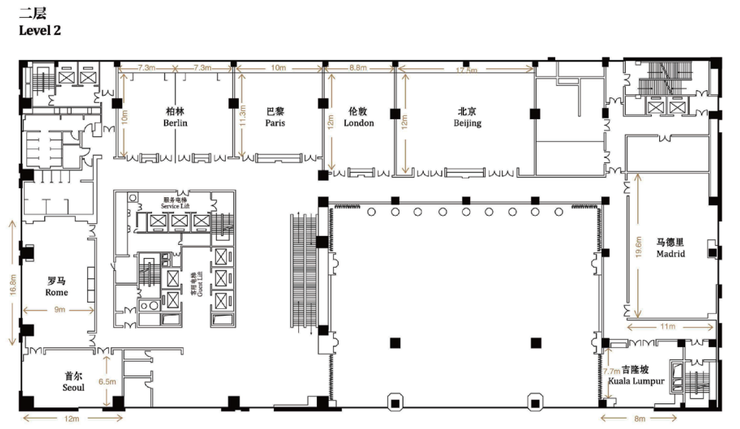
[1] **Poster Presentation:** All authors are expected to present their posters simultaneously during the morning session. Please bring a laptop or other device for demonstrations.

[2] **Dome Theater Film:** Teenagers are welcome to watch the film together with their accompanying parents/guardians.

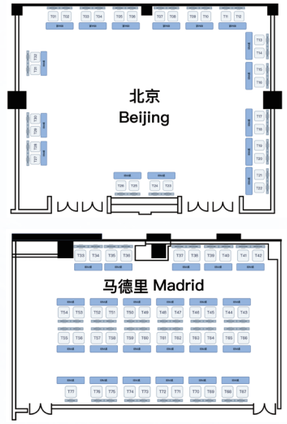
[3] **AI Hands-on Workshop:** This activity is for teenagers only. Parents/guardians may explore the museum during the session. Each participant must bring a laptop.

Venue & Transportation Information

Morning sessions and lunch at Wanda Vista Shenyang; afternoon activities at the Liaoning Science and Technology Museum.
-Wanda Vista Shenyang: 17-5 Yingpan West Street, Shenyang.

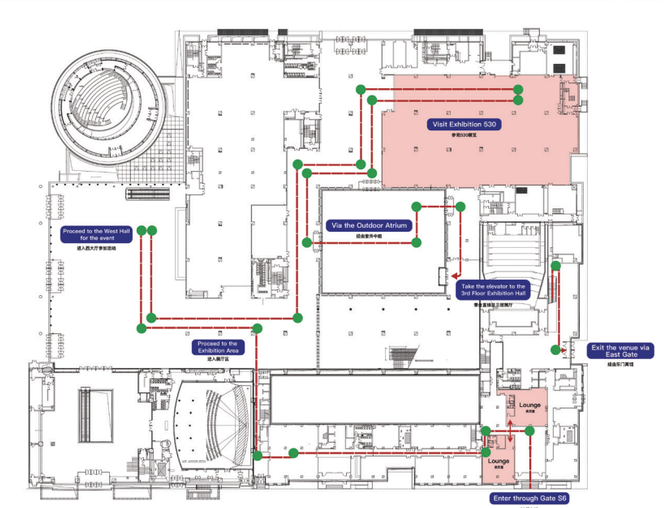


Wanda Vista Shenyang – 2nd Floor Meeting Room Layout



Poster Locations

-Liaoning Science and Technology Museum: 159 Zhihui 3rd Street, Hunnan District, Shenyang.
Accompanying parents/guardians must bring their ID cards (or passports for international visitors), which will be scanned for entry to the exhibition hall. Students are not required to present identification.



Liaoning Science and Technology Museum – Floor Plan & Directions

-Bus transportation: Buses will depart from Wanda Vista Shenyang at 13:30 for the Liaoning Science and Technology Museum. The return buses will depart from the museum at 17:20. Please board on time. Boarding details and updates will be shared during the conference via Whova and the WeChat and WhatsApp groups.

Teenager Keynote 1



Claudia Plant

Claudia Plant is full professor for Computer Science at the University of Vienna, Austria, where she heads the Research Group Data Mining and Machine Learning and the Research Network Data Science @ UniVie. She also serves as General Chair of ICDM 2026. Her research focuses on discovering patterns and knowledge in large and complex datasets, with particular interests in clustering, representation learning, information-theoretic data mining, deep learning and methods for analyzing graphs, time series, and heterogeneous data. Her work includes applications in biomedicine, neuroscience, and environmental science. Before joining the University of Vienna in 2016, she held research positions at the Technical University of Munich, Florida State University, and Helmholtz Zentrum München.

Title

Clustering: My Journey in Data Mining Research

Abstract

How to find a natural grouping of a real data set with an unknown number of clusters which may be contaminated with noise? This question marked the beginning of my exciting journey into data mining research, and it continues to occupy me to this day. Starting with the basic K-Means algorithm, this talk will introduce ideas for clustering high-dimensional, complex, and noisy data. I will also illustrate my personal journey, from my first ICDM paper in 2004 to my current position as a professor, General-Co-Chair of ICDM and leader of an awesome research group working on clustering and representation learning. I will also offer advice to young researchers on how to find their path, stay on it, enjoy the journey and ultimately turn their passion for data mining research into a profession.

Teenager Keynote 2



Raymond Chi Wing Wong

Raymond Chi-Wing Wong is a Professor in the Department of Computer Science and Engineering at the Hong Kong University of Science and Technology (HKUST). He also serves as Associate Head of the Department and Director of the Undergraduate Research Opportunities Program (UROP). He received his BSc, MPhil, and PhD degrees in Computer Science and Engineering from the Chinese University of Hong Kong in 2002, 2004, and 2008, respectively. His research interests include databases and data mining. His work has received Best Paper Awards at ICDE 2024 and MDM 2024, and he has also received recognition for his teaching and contributions to undergraduate research.

Title

Experience Sharing: How to Conduct Research - Understanding Contributions

Abstract

In this talk, I will share my own experience on how to conduct research. There are a lot of important elements for conducting research. The first element is understanding contributions. You have to know that what you did for research is really regarded as an important contribution by international researchers in the field. The second element is presentation. It is very important to express your new ideas clearly to researchers in the world. The third element is reading which is a way to understand the literature well. The fourth element is topic finding which helps you identify your own topic you should work on. The fifth element is technical skills which help you develop novel and interesting methods for the topic that you are working on. In this talk, we focus on the first element - understanding contributions.

AI Hands-on Workshop

Title

Understanding AI Vision: A Hands-on Workshop with AI Cameras

Abstract

AI vision is one of the most widely used applications of artificial intelligence, with applications ranging from face recognition and object detection to intelligent monitoring and autonomous driving. This workshop introduces the fundamentals of AI visual recognition in an accessible way, helping students understand how AI cameras work and how machine vision differs from human vision. Participants will then work hands-on with AI cameras, connecting the devices to computers, configuring the software, and building basic image-recognition projects through real-time image capture and object recognition. Combining clear explanations with guided group practice, the workshop is designed for high school students with no prior AI experience and aims to develop their practical skills, logical thinking, and interest in technological innovation.

Speakers



Dapeng Zhen

Regional Manager at Guangzhou ZMROBO Technology Co., Ltd., with research interests in artificial intelligence and educational robotics.



Bing Wei

Teacher at Liaoning Province Shiyan High School, with research interests in science and technology education.

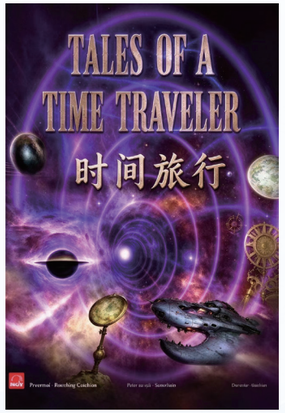
Sponsor

与学生一起创造智能时代 Create A Smart Age With Students ZMROBO 中国机器人 证券代码:002359

Guangzhou ZMROBO Technology Co., Ltd.

Founded in 2002, Guangzhou ZMROBO Technology Co., Ltd. specializes in STEAM education, educational robotics, and artificial intelligence. The company provides educational robotics hardware and software, curriculum solutions, and customized services for students from primary school to university. Through hands-on building and creative exploration, ZMROBO aims to make robotics and AI more accessible to young learners and inspire their curiosity, creativity, and interest in technology.

Dome Theater Film



Tales of a Time Traveler （《时间旅行》）

Time travel is an extraordinary adventure beyond imagination! Explore ancient civilizations, witness the birth of the universe, and journey to the edge of a black hole. Through this film, discover how difficult it is to define and understand time. Time is elusive and impossible to grasp—and something no one can truly possess.

Format: 8K | Duration: 23 minutes | Language: Chinese

Teen Posters

S30206 **Identification of Family-specific 3-mer Motifs within Neurotrophin Orthologs: Using Multiple Data Mining Algorithms**
Elina Yoonju Kim and Sunghyun Park

S30207 **Graph-Based Exit Recommendation and Navigation for Visually Impaired Subway Passengers**
Pengpeng Li

S30209 **Seeing Time: Visual-Temporal Representation Learning for Interpretable Time Series Clustering**
Zheng Zhu, Zexi Tan, Yuming Deng, and Yiqun Zhang

S30214 **ClearTalk: Data-Driven Mandarin Articulation Analysis and Personalized Communication Support for Children with Dysarthria**
Ben Xiaolu Huang

S30219 **Stable Clusters, Fragile Claims: CIPHER for Claim-Aware Auditing of Unsupervised Profiles.**
Irais Jaqueline Benitez Castillo

S30222 **When Do Extreme-Aware Capacity Decisions Matter? A Diagnostic Study on LLM Serving Traces**
Ziheng Feng, Zitong Feng, and Zhiheng Zhang

S30224 **A Lightweight YOLO11-Based Perception System for Autonomous Ball-Kicking on a Humanoid Robot**
Haochen Wang

S30229 **DataFlash: A Secure, Intent-Driven Visual Workflow Framework for Autonomous Data Mining and Analytics**
MINYANG HAN and ZHIPING XU

S30230 **Style, Not Supply: 13,800 Museum Paintings Reveal the Nineteenth-Century Palette**
PEIQI XU

S30235 **Optimal Emergency Building Sweep Strategies: A Time-Dependent Graph Model with Robust Multi-Responder Path Planning**
Haiqin LE

S30240 **Neighborhood Demographics and the Limits of Machine Learning for Homelessness Prediction in California**
Vivaan Dudani and Mia Lu

S30241 **A Unified Framework for Multi-Source Respiratory Sound Classification with Data Augmentation**
Qianpu Wu, Jun Xiao, and Yang Liu

S30245 **Network-Aware Weight Storage Allocation and Landscape Analysis for Microcontroller Neural Network Inference**
yang songlin, dong wenyong, and yang zongyuan

S30246 **Diagnosing Zero-Shot Forgetting in CLIP Fine-Tuning: Attention Drift Characterizes Adaptation, Representation Drift Predicts Transfer Degradation**
Ruize Xia

S30247 **MiniRNABench: A Lightweight Benchmark for Verifier-Guided RNA Agents**
Krithi Saravanan, Tanyah Paylor, Xiangyu Wen, and Kaixiong Zhou

S30260 **BrailleGuide: A Vision-Language-Model-Powered Assistive System for Environmental Understanding of Visually Impaired Users**
Yuxiang Chen

S30261 **Nitrogen or Not: XAI for Nitrogen Literature Filtering with Minimum Labeling Effort**
Emma Tong and Jun Wu

S30263 **PINN-LOCK: A Physics-Constrained Deep Learning Framework for Data-Efficient Density Current Prediction in Fluid Systems**
Aiden Song

S30264 **TWINS: Synergizing Tabular Data and Text Signals via Joint Representation Learning**
Yijia Zhang, Si-Yang Liu, Jun-Peng Jiang, and Han-Jia Ye

S30265 **Predicting the Prices of Inverted Table Tennis Rubbers Using Product Ratings and Brand Information**
Jiang Li

S30267 **Sinusoidal Feature Embeddings for Neural Renormalization Group Flows on the Ising Models**
Ao Wang, Peter Lu, and Oreoluwa Alao

S30268 **PRISM: Personalized Prediction of Long Screen-Off Intervals on Smartphones**
Yichen Peng, Shuaiming Zhu, Changhua Pei, Jingjing Li, and Xiao Liang

S30269 **Impact of Different Data Augmentation Techniques for Glaucoma Detection Using a SWIN Transformer**
Arvin Bozorgi, Jake Jenkins, and Mohammad Ali Javidian

S30273 **Predicting Delayed New-Item Success from Practice Logs**
Xiaoteng Zhang

S30274 **Proactive Intervention for Harmful Online Content: A Fast-Slow Dual-Stage Framework Integrating Local Models and Large Language Models**
Zi Xuan Qi

S30275 **A Lightweight Safety Guardrail Fusing Generative and Discriminative Paradigms**
Shuo Sha, Siqi Sun, and Jinyu Li

S30276 **Implementation of a Full-Stack Edge AI System on the RK3576 Platform**
Siqi Sun and Shuo Sha

S30277 **Performance Analysis of Traditional Chinese Instruments Using a Music Foundation Model**
Guanjin Pan, Fengyi Sun, Mohan Gao, Feixiang Shu, and Xiaofeng Gao

S30278 **Trust-Aware Phishing Detection: Dataset Auditing, Probability Calibration, and Selective Escalation**
Hangxiao Zhu

S30279 **TriPAF-Net: Adaptive Physical-Prior Fusion for Perception-Oriented Dehazing**
Mujie Liu

S30281 **DFB-TCN: Continuous Traffic Police Gesture Detection with Actionness-Guided Factorized Temporal Modeling**
Sophia Wu

S30282 **Time-Varying Favorite–Longshot Bias in Polymarket Weather Markets**
SHOUCHEN QIU and HUAIJUN QIU

S30285 **SensorMask-HAR: Robust Smartphone Activity Recognition with Missing Inertial Sensors**
Yiliu Yang, Haoran Ji, and Lei Cai

S30289 **Re-Scoring Self-Scored Methods: A Pre-Specified Audit of Learned Cost-Sensitive Fraud Detection**
Keshav Anand

S30291 **HoopMind: A Real-Time Neural Game-Tree System for Opponent-Aware Possession Planning**
Yibo Gong, Cong Guo, and Jiacheng Ding

S30292 **From Single-Shot QA to Continuous Perception: Revisiting the Energy Composition and Optimization Boundary of Edge VLMs**
Yiting Duan, Miaoxin Wang, Aoqing Guo, and Bo Peng

S30293 **Data-Driven Industrial Control Configuration Language: A Semantic Verification Framework for Safe Integration of Large Language Models**
Chuqing Ming and Ning Guo

S30295 **Adaptive Solver Switching Framework(ASSF) for Chaotic System Prediction**
Yueling(Jack) Zhou

S30302 **NEO-Bench: A New Multi-Source Benchmark for Generalizable Astronomical Streak Detection**
Jiayou He and Jessica Yao

S30306 **Interactive Multi-source Spatiotemporal Visualization for Mekong Hydro-Meteorological Monitoring**
Yanming Chen, Zhicheng Ye, and Longhui Li

S30307 **A Human–AI Collaborative Service Model for AI-Enabled Eldercare Robots under Ethical Constraints**
Ziqin Yan

S30310 **Fewer Measurements, Better Predictions: Log-Space Gradient Boosting for Configurable Software Performance**
Yucheng Guo and Zixiang Xu

S30311 **Mining Investor Sentiment with Large Language Models for Stock Market Forecasting: An Interpretable LSTM Study**
Xiaotong Mi

S30313 **Why Lymphocyte False Alarms Refuse to Fall Below 30%: Cross-Hospital Blood Cell Anomaly Detection with Only 150 Normal Cells**
Yuecheng Li

S30316 **Systematic iEEG Feature Evaluation for Lightweight Seizure Prediction with Pseudo-Online Testing**
Yicheng Liu

S30317 **A Vision-Driven Intelligent Origami Modular Robotic System for Autonomous Reconfiguration**
Jingran Wang

S30319 **Mitigating Demographic Bias Decay in Machine Learning Models**
Skanda Sunil and Chen Zhao

S30321 **TROC: Trajectory-Objective Correction for Step-Cached Diffusion Transformers**
Ruize Xia

S30322 **Uncertainty-Aware and Grammar-Constrained Structured Decoding for Library Call Number Recognition**
Chengyue Shen

S30323 **LECD: Label-Efficient Completion Detection for Ballet Rotation Evaluation**
Jiuhui Xu, Zhimin Lin, and Sisi Wang

S30326 **Mining a Complete Transaction Census from a Student-Run Cashless Marketplace**
Bhira Piromsopa and Krerk Piromsopa

S30329 **Archaeological Site Preservation Status of Nine-Cities of Yili Based on Multi-Source Data Fusion**
Mulin Tian, Yiran Liu, and Andong Lu

S30331 **Comparing Built Environment Change and Nighttime Activity in the Xiong'an Three-County Core Area and Beijing Xicheng District**
Tingrui Yu

S30334 **Paired Matched Terminal Supervision and Direction-Gain Allocation for Budgeted Sample-Column Interventions**
Zhuoyang Xu, Pingrui Lai, and Yizhuo Tian

S30335 **Beyond Dice: Failures in Gastrointestinal Polyp Segmentation**
Emily Hesper Li

S30336 **WetlandSentinel: An Ellipsoidal Amphibious Robot for Wetland Ecological Monitoring**
Qiyun Zheng

S30338 **MentalGuard: A Knowledge Graph and Intelligent Detection System for Adolescent Health Misinformation**
Lyu Niuheng

S30339 **A Lightweight Wearable Low-Visibility Navigation Device with Decision-Making Based on Sparse Radar and Inertial Data Fusion**
Wenhao Wang and Haodong Feng

S30340 **A Data Mining Method Based on Gradient Boosting Trees for Intelligent Closed-Loop Calibration of TOSA Devices**
Jiakang Liao

S30341 **Fault Diagnosis for Transmission Lines Based on Multi-channel GADF and Explainable Deep Learning**
Ziqian Liu and Qian Shao

S30348 **TRACE: Multimodal Fusion of Pathology Foundation-Model Embeddings and Genomics for Tumor Origin Prediction**
Saicharan Vellanki and Paraic Kenny

S30349 **Mining Anatomically Grounded Evidence to Enrich Explainability for AD Classification**
Agrima Verma

S30350 **Does Homophily Imply Predictive Value? An Empirical Study of Policyholder Similarity Graphs**
Yiting Lei, Yuanpeng Zhai, and Yu-Xuan Qiu

S30354 **Automating a Systematic Review of Large Language Models in Ophthalmology Using LLM Agents**
Ethan Wei, Hyunjae Kim, and Qingyu Chen

S30355 **Expanding Visual Design Space: Evidence from AI for Digital Packaging**
Vivian Foutz, Tianxin Li, Hanbing Xue, and Zitai Zhang

S30359 **Can Large Language Models Recognize Social Anxiety in Text? A Comparative Classification and Bias-Probing Study for Teen-Facing AI**
Sunny Gao

S30360 **Multimodal Foundation Models for Understanding Bodily Expressed Emotions**
Xinrui Yan

S30361 **PriApt: State-Adaptive Memory Control for Privacy-Aware Conversational Personalization**
Vivian Foutz, guangping huang, and Tingxuan Du

S30362 **Escaping the Likelihood Trap: Magnitude-Conditioned Neural Forecasting of Earthquake Exceedance**
Hao Lin and Yan Liu

S30363 **GPS: A Fast Trainable Activation Function**
Jerry Zhang

S30365 **PlanLens: Deterministic Graph-Grounded Failure Diagnosis for LLM-Generated Plans**
Nurdaulet Abdrakhman and Daniyal Kozyrev

S30366 **Why Mined Rules Fail on an Air Quality Archive: Score Degeneracy and Reference-Period Contamination**
Nachapatsakon Nooyuan and Muhammadfadil Saman

S30367 **ExactPHQ: Learning What to Ask, Proving When to Stop**
Brandon Baek, Tevyn Yong, and Seonho Kim

S30370 **AeroAnchor-RAG: Structural Grounding and Hierarchical Retrieval for Interactive Aviation Question Answering**
Ding Mao, Xiaoge Yue, Jiankun Li, and Yan Zhuang

S30371 **Behavioral Entropy as a Predictor of Capture Outcome: A Cross-Sectional Data-Mining Analysis of Serial Homicide Offenders**
Benyaphon Bualuang and Boonyavee Bualuang

S30376 **ECHO: Error-Aware Multi-Agent Sports Commentary Enrichment**
Wenxin Jiang and Wei Zhou

S30356 **PARC: Defending Fact-Checking Against RAG Poisoning With Parametric Knowledge**
Rongyu Wang

Ph.D. Forum

Friday, November 13, 2026 13:30–15:30

VIP Room

Huaijie Zhu (Sun Yat-sen University), Liang Du (Shanxi University)

About

The IEEE International Conference on Data Mining (ICDM) 2026 Ph.D. Forum provides an exceptional opportunity for emerging researchers to present their ongoing work, discuss their career aspirations, and engage with the broader academic and industrial community.

Schedule

01 13:30–13:35
Welcome Speech
Xiaochun Yang

02 13:35–13:50
From Structural Modeling to Autonomous Data Agents
Huachi Zhou

03 13:50–14:05
Fast Co-Clustering with Small-Scale Similarity Graph and Bipartite Graph Learning
Xiaowei Zhao

04 14:05–14:20
Out-of-distribution Detection: Theroy, Algorithm and Application
Bo Peng

05 14:20–14:35
Cross-Modal Hashing Retrieval for Inconsistent Multimodal Data
Tieying Li

06 14:35–14:50
SciAtlas: a Unified Infrastructure for AutomatedScientific Research
Shuofei Qiao

07 14:50–15:05
Incomplete Information: From Missing Statistics to Fragmentary Evidence
Minh Duc Duong

08 15:05–15:20
Multi label Space Anomaly Detection
Xinye Wang

09 15:20–15:35
Adaptive Unsupervised Learning and Interdisciplinary Research
Li Qian

10 15:35–15:37
Closing Address
Huaijie Zhu

Chairs



Huaijie Zhu
Sun Yat-sen University



Liang Du
Shanxi University

Keynote Speakers



Xiaochun Yang
Northeastern University, China



Huachi Zhou
The Hong Kong Polytechnic University



Xiaowei Zhao
Shanxi University



Bo peng
University of Technology Sydney



Tieying Li
East China Normal University



Shuofei Qiao
Zhejiang University



Minh Duc Duong
University of Pisa



Xinye Wang
Tiangong University



Li Qian
Chinese Academy of Sciences

Awards

Saturday, Novermer 14, 2026 18:30-20:30

Grand Ballroom



Best Paper Award (Research, Applied)
Winner, Runner Up

Best Student Paper Award (Applied, Research)
Winner, Runner Up

10-Year Highest-Impact Paper Award
Winner

Tao Li Award
Winner

KAIS Best Paper Award
Winner

Research Contributions Award
Winner

Outstanding Service Award
Winner

Young Female Scholar Award in Data Science
Winner

Female Student Award in Data Science
Winner

BlueSky Paper Award
First Second Third Prize

Teen Research Symposium Best Paper Award
Winner, Runner-up

Teen Research Symposium Best Presentation Award
Winner

Teen Research Symposium Best Poster Award
Winner

Teen Research Symposium People's Choice Poster
Winner

Best Poster Award
Winner, Runner-up

Best Demo Award
Winner, Runner Up

Best Education Paper Award
Winner

Banquet

Chapter 1

The Mountains Awaken in Spring

Welcome & Opening

Beginning of Spring

Rain from the eaves nourishes tender buds; spring light spills into the mountains.
With gentle rain setting the rhythm and spring light leading the way, the chorus rises in clear, gentle harmony, evoking nature's awakening and the first stirrings of spring.

College of Arts, Northeastern University



Awards Ceremony

AWARDS PRESENTED
IEEE ICDM Poster and Demo Awards
IEEE ICDM BlueSky Paper Awards
IEEE ICDM Best Education Paper Award
IEEE ICDM Student Travel Awards
IEEE ICDM Teen Research Awards
IEEE ICDM Female Student Award in Data Science
IEEE ICDM Young Female Scholar Award in Data Science



A Tapestry of a Legendary Land

Thousands of years of blue and green; mountains and rivers unfurl across the scroll.
With azurite as its bones, malachite as its soul, and dance as its brush, the performance unfolds a landscape of blue and green—serene, profound, and ever-renewing.

Department of Dance, Shenyang Conservatory of Music



Chapter 2

A Torrent of Light

Radiance

A glimmer breaks at dawn, rising into the light.
With dawn setting the rhythm and warm sunlight leading the way, ribbons dance in pursuit of light, unfolding a radiant vision of an open, resilient spirit that moves ever forward.

Physical Education Department, Northeastern University



Awards Ceremony

AWARDS PRESENTED
IEEE ICDM Tao Li Award
IEEE ICDM Outstanding Service Award
IEEE ICDM Research Contributions Award
KAIS Journal Best Paper Award
IEEE ICDM Best Paper Awards
IEEE ICDM 10-Year Highest-Impact Paper Award



New Horse Racing

Hoofbeats break the dawn; the horses race with the wind.
With the gallop setting the pace and waves of grass guiding the way, the soaring strings race with the wind, evoking the boundless vitality of the grasslands.

College of Arts, Northeastern University



IEEE ICDM 2027 Handover

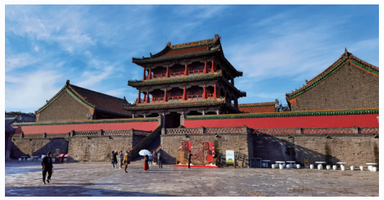
Thanks & Closing

Local Introduction

Shenyang — Where Heritage Meets Innovation

Shenyang, known as the birthplace of the Qing Dynasty, is a remarkable city blending profound historical heritage and vibrant modern vitality.

Must-visit Attractions



Shenyang Imperial Palace:

A UNESCO World Heritage Site, one of China's two well-preserved royal palace complexes, showcasing distinctive Manchu architectural features.

Marshal Zhang's Mansion:

A grand complex of Sino-Western-style buildings, witnessing pivotal chapters of modern Chinese history.





Beiling Park (Zhao Mausoleum):

The magnificent imperial mausoleum of Emperor Hong Taiji, a world-famous cultural heritage site with ancient pine forests and grand architecture.

Zhongjie Pedestrian Street:

China's oldest commercial pedestrian street, where time-honored shops and modern commerce converge.





Xita Korean-Style Street:

A lively neighbourhood full of Korean-style eateries and distinctive local culture.

Local Delicacies



Guoba Rou (Sweet-and-Sour Crispy Pork)

Invented in Shenyang during the late Qing Dynasty, Guoba Rou is the signature Liaoning dish. Pork slices are deep-fried until crispy, then tossed in a bright sweet-and-sour sauce. It features a crunchy exterior and tender meat, representing the classic flavour of Northeast China.

Shenyang Chicken Rack

A beloved iconic street food of Shenyang. Prepared in countless ways including grilled, fried, smoked and marinated, the chicken rack carries the city's warm local atmosphere. It is a must-try snack for visitors to experience authentic Shenyang life.





Laobian Dumplings

Dating back to 1829, Laobian Dumplings is a time-honored Chinese brand. Famous for its unique stir-fried filling technique, the dumplings have thin wrappers, juicy and savoury fillings, and have long enjoyed the reputation of "the finest dumplings under heaven".

Ma's Shaomai

A centuries-old halal specialty of Shenyang, created in 1796. Its thin, translucent wrappers are hand-rolled into flower-like edges, filled with juicy beef mince. Steamed to perfection, it delivers rich, fresh taste without greasiness.



We thank you for your participation. We look forward to welcoming you to Shenyang, China!

Shenyang — Where Heritage Meets Innovation

Shenyang is a city where deep historical roots meet a driving momentum for innovation — from its UNESCO-listed Imperial Palace to its thriving modern skyline, a destination of infinite dimensions awaits. We thank you for participating and look forward to seeing you in Shenyang, China!

Conference Venue

ICDM 2026 will be held at Wanda Vista Shenyang, located in Hunnan District, Shenyang, Liaoning Province. The venue is close to Metro Line 2 and offers direct access from the airport and major railway stations.

Wanda Vista Shenyang

沈阳富力万达文华酒店

Wanda Vista Shenyang is the official conference venue for IEEE ICDM 2026. The hotel is located near Yingpan Street Station on Shenyang Metro Line 2, making it convenient for attendees arriving by air, high-speed rail, or local transit.



ADDRESS

No.17-5 Yingpan West Street, Hunnan, Shenyang, Liaoning Province, China

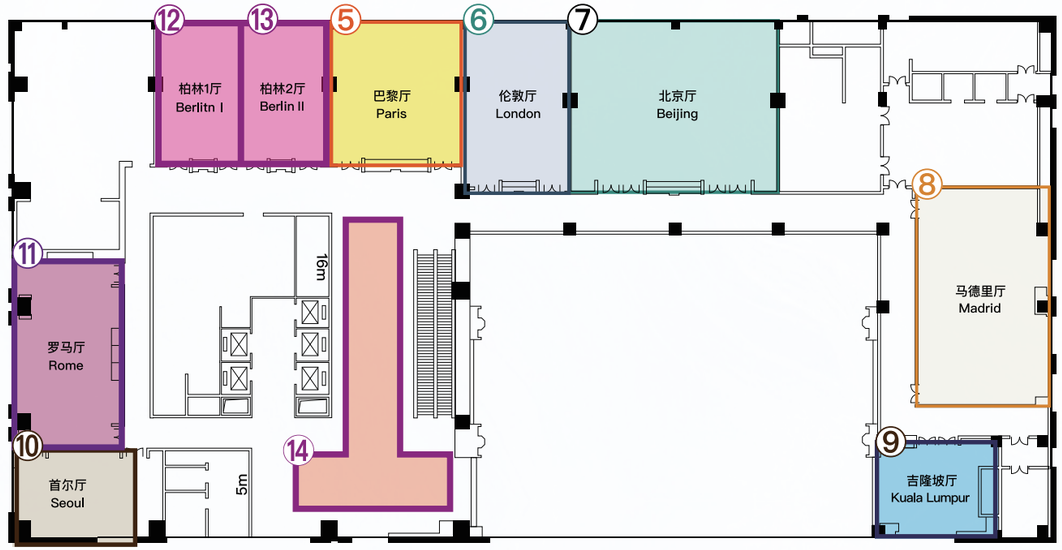
中国辽宁省沈阳市浑南区营盘西街17-5号

NEARBY METRO

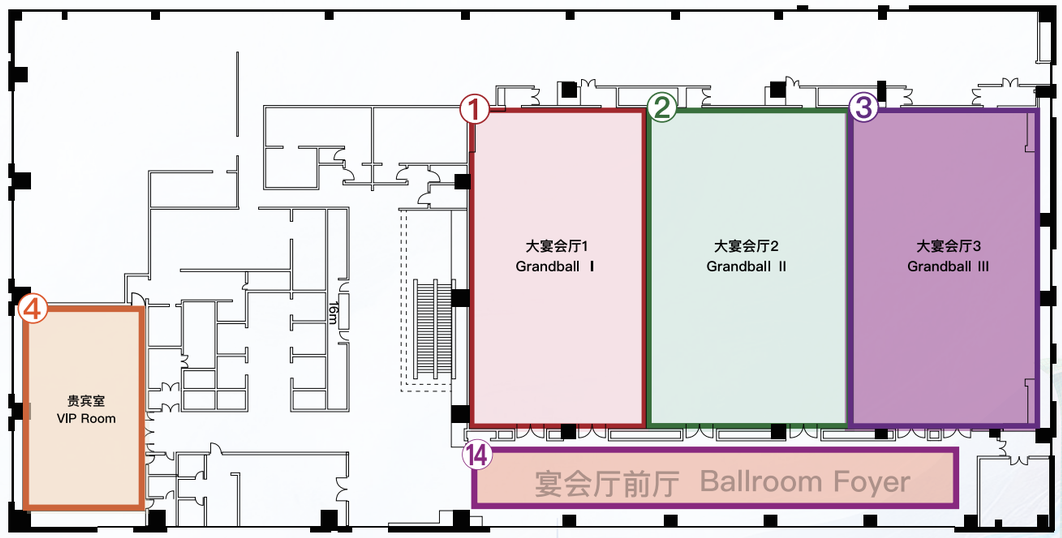
Yingpan Street Station, Exit B, Metro Line 2. The hotel is about 300-500 meters away, roughly a 5-minute walk.

2F/3F Floor Plan · Wanda Vista Shenyang

Conferenc Room on 2F



Conferenc Room on 3F



Registration: 1F, Sign-In Desk at the Entrance

Thursday | November 12th

Workshops

1–①	Grand Ballroom Ⅰ	W01 | SENTIRE	(Full Day)
2–②	Grand Ballroom Ⅱ	W02 | OWAD	(Three-quarters day)
		W19 | PM4CLUSTER	(One-quarter day)
3–④	VIP Room	W03 | ADSD	(Three-quarters day)
		W20 | AI4S-Bench	(One-quarter day)
4–⑤	Paris	W04 | TML4DM	(Three-quarters day)
		W21 | TrustFL-SIS	(One-quarter day)
5–⑥	London	W05 | WMAI	(Half Day)
		W12 | DMBIH	(One-quarter day)
		W35 | MDF	(One-quarter day)
6–⑦	Beijing	W06 | DM-AISC	(Half Day)
		W13 | MedTSFM	(One-quarter day)
		W23 | EDMML	(One-quarter day)
7–⑧	Madrid	W07 | OEDM	(Half Day Each)
		W14 | GNN-LLM-SYN	(One-quarter day)
		W24 | EvoGraphDM	(One-quarter day)
8–⑨	Kuala Lumpur	W08 | HDM	(Half Day)
		W15 | UIM3	(One-quarter day)
		W25 | MHSM	(One-quarter day)
9–⑩	Seoul	W09 | PM4B	(Half Day)
		W16 | IncrLearn	(One-fifth day)
		W26 | DLC'26	(One-fifth day)
		W22 | LLM4MDF	(One-fifth day)
10–⑪	Rome	W10 | WAIP	(Half Day)
		W17 | STFG	(One-quarter day)
		W27 | TrustRS	(One-quarter day)
11–⑬	Berlin Ⅱ	W11 | BioFM	(Half Day)
		W18 | HDAI	(One-quarter day)
		W28 | MIDAS	(One-quarter day)

Friday | November 13th

Keynote, Tutorials, Women Forum, PhD Forum, Sessions, Posters

1–①②③	Grand Ballroom Ⅰ+Ⅱ+Ⅲ combined	Opening	
		Keynote 1	
		Reception	18:30–20:30
2–①	Grand Ballroom Ⅰ	Tutorial 1	
		Session L1	
3–②	Grand Ballroom Ⅱ	Tutorial 2	
		Session L2	
4–④	VIP Room	Women Forum	
		PhD Forum	
		Session S1	
5–⑤	Paris	Session L3	
		Session S2	
6–⑥	London	Session L4	
		Session S3	
7–⑦	Beijing	Session L5	
		Session S4	
8–⑧	Madrid	Session L6	
		Session S5	
9–⑨	Kuala Lumpur	Session L7	
		Session S6	
10–⑩	Seoul	Session L8	
		Session S7	
11–⑪	Rome	Session L9	
		Session S8	
12–⑫	Berlin Ⅱ	Session L10	
		Session S9	
13–⑭	Foyer 2F/3F	Poster Sessiion 1 (L)	

Saturday | November 14th

Keynote, Tutorials, Education Forum, BlueSky Forum, Sessions, Posters, Demos, Teen Keynote

1–①②③	Grand Ballroom Ⅰ+Ⅱ+Ⅲ combined	Keynote 2	
		FCS Panel	16:30–18:00
		Banquet	18:30–20:30
2–②	Grand Ballroom Ⅰ	Tutorial 4	
3–③	Grand Ballroom Ⅱ	Tutorial 3	
4–④	VIP Room	Education Forum	
5–⑤	Paris	Session L11	
6–⑥	London	Session L12	
7–⑦	Beijing	Teen Openiing	
		Teen Keynote	
		Demo	
8–⑧	Madrid	Teen Poster Session	
		BlueSky Forum	
9–⑨	Kuala Lumpur	Session L13	
10–⑩	Seoul	Session L14	
11–⑪	Rome	Session L15	
12–⑫	Berlin Ⅰ	Session L16	
13–⑬	Berlin Ⅱ	Session L17	
		Session S9	
14–⑭	Foyer 2F/3F	Poster Sessiion 2 (S)	

Teen/ Off-site

Dome Theater Film
AI Hands-on Workshop
Liaoning Science & Technology Museum

Sunday | November 15th

Keynote, Tutorials, Sessions

1–①②③	Grand Ballroom Ⅰ+Ⅱ+Ⅲ combined	Keynote 3	
2–①	Grand Ballroom Ⅰ	Tutorial 6	
3–②	Grand Ballroom Ⅱ	Tutorial 5	
4–④	VIP Room	W30 | LLMTenA	
5–⑤	Paris	Session L18	
		Session S11	
6–⑥	London	Session L19	
		Session S12	
7–⑦	Beijing	Session L20	
		Session S13	
8–⑧	Madrid	Session S10	
		Session S14	
9–⑨	Kuala Lumpur	W31 | MLC	
10–⑩	Seoul	W32 | D2AI	
11–⑪	Rome	W33 | LM4TED	
12–⑫	Berlin Ⅰ	W29 | ARRL	
13–⑬	Berlin Ⅱ	W34 | DMS	

Transportation

AIRPORT ROUTE

Shenyang Taoxian International Airport

沈阳桃仙国际机场

Taxi: About 15-16 km to the hotel, approximately 15-20 minutes.
Metro: Take Metro Line 2 from Taoxian International Airport toward Putian Road and get off at Yingpan Street Station, Exit B. Walk about 300-500 meters to the hotel.

NEARBY SUBWAY

Yingpan Street Station

营盘街站

Line: Shenyang Metro Line 2.
Exit: Exit B.
Walk: Around 300-500 meters to Wanda Vista Shenyang, about 5 minutes on foot.

RAILWAY ROUTE

Shenyang Railway Station

沈阳站

Taxi: About 11.4-12 km from the hotel, approximately 25-35 minutes.
Metro: Take Line 1 from Shenyang Station toward Liming Square, transfer at Qingnian Street / Qingnian Avenue Station to Line 2 toward Taoxian Airport or Quanyun Road, and get off at Yingpan Street Station, Exit B.

Shenyang North Railway Station

沈阳北站

Taxi: About 11-12.6 km from the hotel, approximately 25-26 minutes.
Metro: Take Line 2 directly from Shenyang North Railway Station toward Taoxian Airport or Quanyun Road and get off at Yingpan Street Station, Exit B.

Shenyang Airport

Overview

Shenyang Taoxian International Airport (IATA: SHE) is the primary aviation gateway to Northeast China, serving Liaoning Province and the greater Shenyang metropolitan area. Located approximately 20 kilometers south of downtown Shenyang, it is a modern and efficient regional hub.

Terminal Information

The airport operates Terminal 3 (T3) as its sole active passenger terminal, handling all domestic and international arrivals and departures. T3 is well-equipped with standard amenities, including diverse dining options, currency exchange, international ATMs, VIP lounges, and duty-free shopping.

Flight Connections & Transfer Guide

For international attendees traveling to IEEE ICDM 2026, you can reach Shenyang via two main options:

1.Direct International Flights (Seoul ICN is the best transit hub):
The airport offers direct regional flights from several Asian hubs, including Seoul Incheon (ICN), Busan (PUS), Jeju (CJU), and Singapore (SIN).

2.Domestic Transit Hubs (Recommended for Most International Travelers):
If there are no direct flights from your departure city, we highly recommend booking a connecting flight through one of China's major aviation hubs. Shenyang is seamlessly connected to all primary gateways with frequent daily flights:

Beijing	Capital (PEK) & Daxing (PKX)	Approx. 1.5 to 2 hours
Shanghai	Pudong (PVG) & Hongqiao (SHA)	Approx. 2.5 hours
Guangzhou	Baiyun (CAN)	Approx. 4 hours
Chengdu	Tianfu (TFU) & Shuangliu (CTU)	Approx. 3.5 to 4 hours

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in a Smarter World

Neusoft

Company Profile

February 2026

Neusoft Corporation (SSE: 600718) is an industry-leading information technology, products and solutions company for the global market. Founded in 1991, Neusoft is the first listed software company in China. With insights into the latest market trends, Neusoft has always been exploring software technology innovation and applications, to help global customers achieve digital and intelligent development. Our business focuses on the fields of intelligent vehicle connectivity, healthcare, smart city, enterprise digital & intelligent transformation, digital services, as well as global software business.

In the field of intelligent vehicle connectivity, Neusoft and Neusoft Reach, as the key partners of global OEMs & Tier1s in the era of Software Defined Vehicle (SDV), are committed to providing innovative products, solutions and services in key areas to empower the transformation of automobile industry. Neusoft has more than 30 years of R&D experience in automotive software, and has participated in formulating over 60 national/international industry standards and established a global product R&D and delivery network centered in China, Germany, USA, Japan and Malaysia. Neusoft automotive products have been applied to 1800+ vehicle models, across 130+ countries and regions, for 50+ OEMs.

In the field of healthcare, Neusoft and the innovative companies we invested empower the healthcare technology and business innovation through deep integration between healthcare and IT technologies. Our healthcare businesses cover medical digitalization, medical equipment, medical services, health & wellness services, financial insurance, medical engineering talents, etc. We have participated in the construction of medical insurance information systems in more than 200 cities across 25 provinces in China, providing medical insurance informatization services for over 800 million people and 80 million insured units, maintaining the top market share in the industry. We serve more than 4,800 hospitals, including over 900 Grade-A tertiary hospitals, and over 80,000 primary healthcare institutions. In 1997, Neusoft launched China's first CT scanner. In 2025, Neusoft's independently developed first photon-counting CT in China and the globally pioneering 1024-slice wide-body ultra-high-definition CT hit the market. Up to now, Neusoft medical equipment products have been sold to over 110 countries and regions worldwide. Meanwhile, Neusoft owns the largest cloud hospital network in China.

In the field of smart city, Neusoft empowers smart city development and digital economy innovation, and continuously promotes the deep integration of information technology and urban development. Driven by technological innovation, we aim to achieve data interconnectivity, intelligent urban governance, convenient and efficient services, and ecological sustainability. By now, Neusoft has participated in developing smart applications for more than 200 cities, providing social security services for over 700 million people in China, holding the first position in market share.

In the field of enterprise digital & intelligent transformation, with more than 30 years of experience and technology accumulation, Neusoft has grown into a trusted partner for enterprises to achieve comprehensive digital and intelligent transformation. We integrate software with services, manufacturing, and various industries, to provide differentiated and scenario-based intelligent products and services for large enterprises from different industries including telecom, energy, finance, civil aviation, culture and media, environmental protection, intelligent manufacturing, etc.

In the field of digital services, we support the construction and operation of digital spaces, reshaping and facilitating our customers' businesses transformation, to create sustainable business value with global, professional, digital and intelligent business process and IT service capabilities. We continuously improve our global and localized service capabilities by enhancing our global talent supply chain, project management and operational excellence. We explore deeply into service scenarios to infuse new momentum to the implementation of our customers' global strategy. Leveraging data and AI to drive service innovation, we offer professional digital business operations and digital technology services to customers worldwide.

In the field of global software business, we focus on customer value, integrate mature expertise and software engineering practices, to accelerate customers' product innovation, empower their digital and intelligent transformation, helping them achieve business growth by open innovation.

Neusoft has over 18,000 employees worldwide, with a marketing and service network covering more than 100 cities in China and subsidiaries in Japan, Europe, the United States, and Southeast Asia, etc. Neusoft has been awarded numerous honors including PwC Global 100 Software Leaders, Top 20 Most Globally Competitive Chinese Companies by Roland Berger, Top 50 Chinese Global Challengers by Boston Consulting Group, the Best Employer in China and the Best Employer in APAC by Aon Hewitt, etc.

In the future, Neusoft will be empowering our customers and society with more innovative and valuable information technology, transforming our future life and world through more intelligent products & solutions.



JDT 京东科技

JD Technology

JD Technology is JD.com's core platform for external technology services.Leveraging its expertise in AI, cloud computing, big data, IoT, and supply chain expertise,
JD Technology provides intelligent digital solutions for cities, enterprises, and financial institutions, driving industrial digital transformation and high-quality growth.

JoyAvatar

A Free AI Livestreaming Sales Partner for Merchants

Developed in-house by JD.com, JoyAvatar is an award-winning AI digital human solution recognized with the Wu Wenjun AI Science & Technology Award — Special Prize. A pioneer in digital human livestreaming, it supports long-duration broadcasts, free-form movement, and real-time interaction. JoyAvatar powers digital avatars for a wide range of commercial applications, including avatars of executives, celebrities, and brand characters.

Go Live in Just One Minute

Complete livestream setup in one minute and broadcast 24/7.

1:1 Livestream Studio Replication

High-fidelity reproduction of voice, appearance, and setting, with support for large movements such as 90-degree turns, as well as partial occlusion.

More Dynamic Free-Form Livestreaming

Supports natural walking and flexible posing, with intelligent camera tracking and seamless on- and off-screen movement.

Intelligent Real-Time Interaction

Responds to audience questions in real time, keeping every livestream engaging from start to finish.

Director-Level Livestream Orchestration

Automatically plans content, manages the session, drives sales conversion, and conducts post-stream performance reviews—delivering an experience comparable to that of top professional livestream hosts.

90,000+ merchants served to date

Tens of billions of RMB in GMV facilitated in 2025

10× year-over-year growth in livestream sessions in Q1 2026

JoyInside

Bringing Human-Centered Intelligence to Every Device

JoyInside provides intelligent interaction capabilities for a full range of hardware, including AI toys, robots, smart home devices and appliances, and medical devices. It upgrades smart devices from "tool-based Q&A" to "companion-style engagement," turning them into new members of the family that seamlessly integrate into everyday life.

Companion Agents for All Ages

Meeting companionship needs across a wide range of scenarios for children, adults, and seniors.

Highly Human-Like Interaction

Moving beyond mechanical responses to deliver natural conversations with genuine warmth.

Gamified Development System

Leveraging task systems and gaming frameworks to create an engaging, progression-based interactive experience.

Strong Alignment Between Words and Actions

Ensuring seamless command execution and close alignment between conversations and actions.

Integrated Book Resources Powered by JD Reading

Drawing on an extensive library of licensed reading content to provide a parent-like guided reading experience.

200+ technology partnerships

Over 120% increase in conversational turns

JoyAI APP

Your All-Purpose Digital Human Assistant

The JoyAI app is a multimodal AI product powered by JD.com's ecosystem and foundation-model technologies. It's an all-purpose assistant that can chat and get things done — and a lifestyle companion that brings together tools, content, and services.

Dr.Joy: Ready to Chat and Get Things Done

Connects users directly to JD.com's comprehensive lifestyle services through natural conversation, covering scenarios such as shopping, healthcare, and financial services. It also supports customized digital humans designed specifically for seniors and comes pre-installed on leading smartphones.

Generative AI Creation Tools

Enables one-click generation of images, text, audio, and video on mobile devices-with no learning curve. The web version provides access to the full suite of capabilities for professional content creation.

An emotionally engaging companion community

with long-term memory and immersive, real-time voice and text interaction and supporting immersive, real-time voice and text interactions.

AFAC Advanced Fintech AI Competition

The AFAC Advanced Fintech AI Competition is jointly initiated by Peking University, Ant Group, and nearly 35 other organizations under the guidance of the Shanghai Municipal Science and Technology Commission and with the support of the China Computer Federation. Since its inaugural edition in 2023, the AFAC Competition has grown into a top-tier financial intelligence competition nationwide and globally.

Competition Achievements

20,000+	60,000+	600+	760+	120+	30+	78 M+
Participating Teams	Participants	Participating Universities	Participating Enterprises	Professional Judges	Competition Events	Event Impressions

Competition Milestones

2023

- Inaugural edition launched by 10 organizations, setting the direction of Fintech, Large Model Technology, and Innovation & Entrepreneurship, with six major tracks.
- Established six major FinTech tracks.

2024

- Received guidance from the Shanghai Municipal S&T Commission, joined the "innovation in Shanghai" matrix, and became a key unit of the Inclusion Bund Conference AI Innovation Competition.
- Initiated by 26 organizations, with financial institutions, VC firms, and renowned overseas universities joining the organizing committee.
- Added a startup track, forming a comprehensive "Algorithm + Application + Entrepreneurship" competition system.

2025

- Nearly 50,000 cumulative global participants, with overseas universities accounting for nearly 10%, becoming a top-tier financial intelligence competition.
- Initiated by 30 organizations, introducing high-quality incubators and leading AI technology communities.
- Built a financial talent cultivation system, pioneered VC meetups and HR face-to-face sessions, and accumulated a talent pool of 6,000+.

2026

- Established an academic committee and launched the AFAC Academic Acceleration
- Upgraded the venture capital ecosystem; initiated by 33 organizations, attracting 13 incubators, VC firms, and technology communities.
- Integrated the full "government-industry-academia-research-application" chain, moving financial AI from competition to market.

Release of AFAC Million-Scale Financial Dataset and Winning Solutions

For the first time, the competition released a million-scale financial dataset, covering 14 competition tracks, over 130,000 evaluation samples, more than 2,000 professional financial documents, and 30 sets of winning solutions produced through the collective efforts of tens of thousands of participants. The dataset reaches 26GB in size and covers tens of billions of FinTech data entries. It can be used for university teaching, enterprise technology evaluation, and developer community research, transforming the competition's accumulated outcomes from serving only the current edition into a sustainable and valuable public industry resource.

AFAC Advanced Fintech AI Competition
QR code of official account

AFAC Advanced Fintech AI Competition
Group QR code

Organizational Structure

Guidance Unit	上海市科学技术委员会
Supporting Units	中国计算机学会 China Computer Federation · 上海市科技创业中心 · GFTN
Academic Partner	Datalogy
Organizing Committee Members	北京大学 · 复旦大学 · 上海交通大学 · 浙江大学 · 上海财经大学 · 南洋理工大学 · 蚂蚁集团 ANT GROUP · 中国银行 · NVIDIA · ZhenFund · PLUG AND PLAY CHINA · X-NODE · TusStar · FTC · 蚂上加速器 · EFG · 上海科创金融联盟 · SEE FUND · 量子位 · 机器之心 · TIANCHI · ModelScope · IO 1000 · Datawhale · Google Developer Group · 杭州AI工坊 · PKU SAIIC

Meituan

About us

As a tech-driven retail company, Meituan strategically focuses on "Retail + Technology" and adheres to our mission of "We help people eat better, live better".

Established in March 2010, Meituan has been at the forefront of digital upgrading of services and goods retail, driving innovation on both the supply and demand sides. In collaboration with our partners, we deliver exceptional services to our valued consumers.

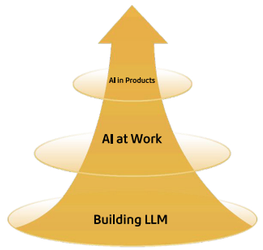
Meituan has always put customers first, and continuously increased its R&D investment in new technologies. Meituan will join hands with all partners to fulfill our social responsibility and create more values for the society.

Academic Cooperation

Meituan Academic Cooperation is dedicated to building a bridge between Meituan's technical teams and academia, supporting frontier exploration with real-world scenarios, and translating academic research into practical applications.

In collaboration with scholars from dozens of prestigious universities and research institutions, we carry out ongoing research projects in fields such as large models and artificial intelligence, robotics, big data, and computing infrastructure. Together, we have published hundreds of papers in top-tier conferences and journals, won numerous championships and runner-up titles in leading international competitions, and successfully implemented a wide range of collaborative achievements across Meituan's business scenarios.

Technology



Meituan's Artificial Intelligence Strategy

Boosting Merchant Efficiency
- Smart Manager

Enhancing Consumer Convenience
- Xiaomei, Xiaotuan – AI Assistants

Empowering Programming
- CatPaw IDE – Programming Tool

Improving Work Productivity
- CatPaw – AI Agent Platform

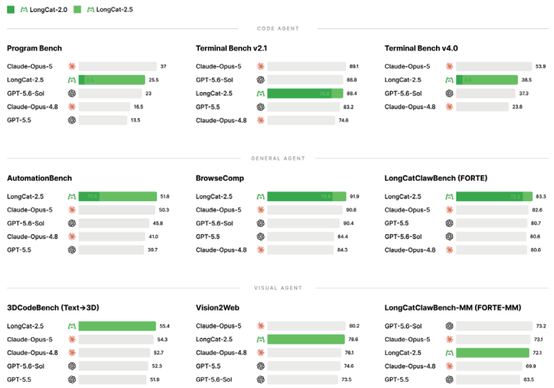
LongCat – AI Models

FRIDAY – Large Model Application Platform

LongCat-2.5

LongCat-2.5 is a native multimodal MoE model for long-horizon agentic tasks, with **1.6 trillion total parameters** and approximately **48 billion activated per token**.

Building on LongCat-2.0, it combines visual understanding with agentic coding for complex codebase development, full-project builds, creative design, and 3D tasks. Long-sequence training, large-scale RL, multi-teacher learning, and infrastructure optimizations on domestic AI accelerators underpin these capabilities.



LongCat: https://longcat.ai

API platform: https://longcat.chat/platform/product

Hugging Face: https://huggingface.co/meituan-longcat

Github: https://github.com/meituan-longcat

LongCat 官网

LongCat 公众号

大连理工大学
DALIAN UNIVERSITY OF TECHNOLOGY

大连理工大学软件学院
大连理工大学-立命馆大学国际信息与软件学院
诚聘海内外英才

Open Position in DUT School of Software Technology & DUT-RU International School of Information Science and Engineering

Dalian, China

选择加入我们的八大理由 Top 8 Reasons to Join Us

1. 985双一流高校平台、国内一流软件工程学科
   Double First-Class University (Project 985) Platform, Nationally Top-Tier Software Engineering Discipline
2. 有竞争力的薪酬、安家费、科研启动费（学校提供）
   Competitive Salary, Housing Allowance, and Start-up Research Funding (Provided by the University)
3. 安家费1:1配套+联合科研基金（学院提供）
   1:1Matching Housing Allowance+Joint Research Fund (Provided by the School)
4. 省市人才政策叠加（政府提供）
   Talent Benefits from Liaoning Province & Dalian Policies (Provided by the Government)
5. 副教授及以上首聘博导（第一年博士生专项指标），充足的硕士生名额
   Eligible for Doctoral Supervisor Status（Associate Professors and Above）and 1 Doctoral Student Quota in the First Year, Ample Master's Student Quotas
6. 知名教授联合培养、一对一申报指导
   Joint Mentorship by Renowned Professors, One-on-One Application Guidance
7. 大连市顶尖职工子弟学校、大连市一流医疗保障政策
   Access to Dalian's Top Employee-Affiliated Schools (Kindergarten through Secondary), First-Class Medical Insurance Policies in Dalian
8. 优美宜居的城市环境
   Beautiful and Livable Urban Environment

岗位需求 Job Requirements

软件工程、计算机科学与技术等信息领域相关学科，包括软件工程、人工智能、大型工业软件、嵌入式软件、计算机图形学、网络空间安全、健康计算等方向。
Software Engineering, Computer Science and Technology, and Other Information-related Disciplines, Encompassing Directions such as Software Engineering, Artificial Intelligence, Large-scale Industrial Software, Embedded Software, Computer Graphics, Cyberspace Security, Healthcare Computing.

薪资福利 Salary & Benefits

单位：万元（Unit: 10,000 RMB）

招聘岗位 Positions	全口径年薪 Pre-tax Annual Salary	安家费 Housing Allowance	科研启动费 Start-up Research Funding
海外优青-教授 Full Professor Positions in terms of Excellent Young Scientists Fund Program (Overseas) of National Natural Science Foundation of China	90-100+	230+省市配套	360-760
副教授 Associate Professor	45+	80+省市配套	100+
助理教授 Assistant Professor	30+	40+省市配套	40+
博士后 Post-doctoral Research Fellow	20+/25+/30+	-	-

◎海外优青入选者将直聘教授、博导，前3年保证6个博士生专项指标，每年4-5个硕士生指标。
Recipients of the Excellent Young Scientists Fund (Overseas) will be directly appointed as professors and doctoral supervisors. They will be guaranteed six dedicated doctoral student quotas in the first three years and four to five master's student quotas per year.

◎省、市两级安家补贴，以当地最新正式政策文件为准，详情可咨询学院工作人员。
Provincial and municipal housing allowances shall be subject to the latest official local policy documents. For details, please consult the staff.

研究所设置 Research Institutes

- 先进工业软件与软件工程 Advanced Industrial Software and Software Engineering
- 泛在网络与智能感知 Ubiquitous Network and Intelligent Sensing
- 智能科学与工程 Intelligent Science and Engineering
- AI+教育 AI + Education
- 健康医疗智能计算 Intelligent Computing in Health and Medicine

应聘方式 To Apply

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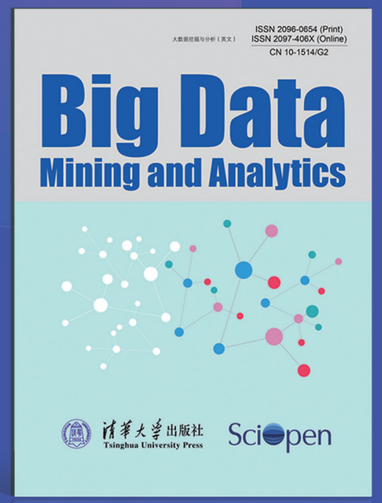
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Big Data Mining and Analytics

Started in 2018 CN 10-1514/G2 ISSN 2096-0654



Journal Influences

- 2025 SCI Impact Factor: 6.1
- 2025 SCI Journal Ranking: 47/267 (JCR Q1) in "Computer Science, Information System" category
- 2025 Scopus CiteScore: 12.5
- 2025 Scopus Journal Ranking: 44/568 (Top 8%) in "Computer Science, Computer Networks and Communications" category

Journal Features

- Indexed in ESCI, Scopus, EI, etc.
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- Wide promotion channels (Wechat, email puch, EurekAlert!, ResearchGate...)

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Article types: · Perspective / News&Highlights · Review/Viewpoints · Research Article · Letter/Others
Index by：SCI(E), CCF-B, EI, Scopus, DBLP, Inspec, CSCD

Subject areas(not limited to)

- Architecture
- Software
- Artificial intelligence
- Theoretical computer science
- Networks and communication
- Information systems
- Image and graphics
- Information security
- Interdisciplinary

FCS Young AE Project

"FCS Young AE Project" was launched in 2013. Now there are around 200 young scholars from distinguished Chinese and overseas universities and institutions participating in journal development. They are not only excellent in their scientific research, but also committed to fulfill their academic obligations and promote academic communication. Join us by contacting the Action Editors!

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Software College, Northeastern University

Overview

Founded in May 2002, Software College of Northeastern University was among the first 35 National Model Software Colleges approved by the Ministry of Education and the NDRC in December 2001, and in December 2021 was selected as one of the first 33 Feature-Oriented Model Software Colleges. It now has 99 faculty and staff members and over 2,600 full-time students.



Faculty

Upholding a philosophy of combining full-time and adjunct faculty, industry and academia integration and global cooperation, Software College fields an open and diversified teaching team of 69 professional teachers, including 19 professors, 36 associate professors, 36 doctoral supervisors, with 63 holding doctoral degrees.





Disciplines & Programs

Offering three undergraduate majors—Software Engineering, Information Security and Virtual Reality, of which the former two are national-level first-class programs—Software College holds a first-level discipline doctoral degree authorization in Software Engineering, rated A- in the fourth national discipline evaluation and among the top in its category in the fifth. The discipline is included in Liaoning's "Double First-Class" construction and NEU's peak disciplines.

Research & Platforms

As a National Innovation Zone for Software Talent Training, Software College hosts a national-level experimental teaching demonstration center and several provincial research platforms, and co-builds the National Engineering Research Center for Computer Software. It has undertaken over 200 national, provincial and municipal projects (including Key National R&D Programs, major MIIT projects and major NSFC projects) and over 500 commissioned industry projects, with research funding surpassing RMB 100 million in the past three years. It has obtained 2 Second Prizes of the National Teaching Achievement Award, multiple National First-class Undergraduate Courses, as well as 2 First Prizes and 6 Second Prizes of the Provincial and Ministerial Science and Technology Progress Award.

Global Engagement

Software College has launched 49 degree-conferring and short/mid-term exchange programs with 35 renowned universities across 13 countries and regions, hosting more than 80 international students on campus and steadily advancing internationalized talent cultivation.

Innovation & Entrepreneurship

Software College has forged a new landscape for innovation and entrepreneurship. Its students have cumulatively secured 3,800 person-times of international and national awards, including Gold Awards from the China International College Students' Innovation Competition, Special Prizes of the "Challenge Cup" National College Students' Extracurricular Academic Science and Technology Works Competition, Gold Awards of the "Challenge Cup" National College Students' Entrepreneurship Plan Competition, and Outstanding Winner awards of the International Mathematical Contest in Modeling (MCM/ICM), alongside 3,886 person-times of provincial-level awards.





Northeastern University (NEU)

Overview

Founded in 1923, Northeastern University (NEU) is a key national university directly under the Ministry of Education with a glorious patriotic legacy. It is among China's first-batch universities under "Project 211" and "Project 985", and has been selected for both phases of the national "Double First-Class" Initiative. Guided by its motto "Self-improvement, Constant Pursuit; Integration of Knowledge and Action" , the university embodies the ethos of "Dedication to Practice, Patriotism, Innovation and Excellence" .

Campus & Scale

Headquartered in Shenyang, Liaoning Province, NEU comprises Nanhu, Hunnan and Shenhe Campuses, plus Qinhuangdao Branch and Foshan Graduate Innovation Institute. Covering 2.646 million square meters, it has 4,399 faculty and staff and over 50,000 enrolled students. More than 400,000 alumni have graduated, including over 70 Chinese and foreign academicians.

Disciplines & Talent Training

Focused on engineering, NEU offers disciplines spanning philosophy, economics, law, education, literature, science, engineering, management, art and interdisciplinary studies. It features 2 "Double First-Class" disciplines, 27 first-level doctoral programs and 82 undergraduate majors (39 national-level first-class undergraduate programs). Hosting a Graduate School and 29 schools/departments, it enjoys independent degree-granting authority and prioritizes fostering high-caliber innovative talents.

Research Highlights

NEU has delivered landmark breakthroughs including China's first analog electronic computer, first domestic CT scanner and first super-steel. It established China's first university science park and nurtured China's first listed software firm. With 12 national-level research bases, it integrates industry-education-research to support national sci-tech self-reliance and actively promotes technology transfer.

Global Engagement

Committed to global openness, NEU has established partnerships with 268 universities and research institutions in 42 countries and regions. It runs 5 "111 Plan" Innovation and Intelligence Introduction Bases and 2 international joint laboratories, and founded the world's first Science and Technology Confucius Institute in Belarus. It operates 1 Sino-foreign cooperative education institution and 4 related programs, with more than 1,200 international students on campus. Supported by national government-sponsored programs, NEU facilitates faculty and student exchanges, joint research and joint training to advance cultural exchange and nurture global talents.



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