

39th AAAI Conference on Artificial Intelligence (AAAI-25), 37th Conference on Innovative Applications of Artificial Intelligence (IAAI-25), and 15th Symposium on Educational Advances in Artificial Intelligence (EAAI-25)

Volume 12: AAAI Technical Tracks

- Data Mining & Knowledge Management II

Philadelphia, Pennsylvania, USA
25 February - 4 March 2025

Part 1 of 2

ISBN: 979-8-3313-2522-0

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2025) by Association for the Advancement of Artificial Intelligence
All rights reserved.

Printed with permission by Curran Associates, Inc. (2025)

For permission requests, please contact Association for the Advancement of Artificial Intelligence
at the address below.

Association for the Advancement of Artificial Intelligence
2275 East Bayshore Road
Suite 160
Palo Alto, California 94303
USA

Phone: 1-650-328-3123
Fax: 1-650-321-4457

<https://aaai.org/Press/press.php>

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PART 1

AAAI TECHNICAL TRACK ON DATA MINING & KNOWLEDGE MANAGEMENT II

Effective and Efficient Representation Learning for Flight Trajectories.....	12211
<i>Shuo Liu, Wenbin Li, Di Yao, Jingping Bi</i>	
THGNets: Constrained Temporal Hypergraphs and Graph Neural Networks in Hyperbolic Space for Information Diffusion Prediction.....	12220
<i>Yanchao Liu, Pengzhou Zhang, Wenchao Song, Yao Zheng, Deyu Li, Lei Shi, Junpeng Gong</i>	
Attack-in-the-Chain: Bootstrapping Large Language Models for Attacks Against Black-Box Neural Ranking Models	12229
<i>Yu-An Liu, Ruqing Zhang, Jiafeng Guo, Maarten de Rijke, Yixing Fan, Xueqi Cheng</i>	
Direct Routing Gradient (DRGrad): A Personalized Information Surgery for Multi-Task Learning (MTL) Recommendations	12238
<i>Yuguang Liu, Yiyun Miao, Luyao Xia</i>	
CoRA: Collaborative Information Perception by Large Language Model's Weights for Recommendation.....	12246
<i>Yuting Liu, Jinghao Zhang, Yizhou Dang, Yuliang Liang, Qiang Liu, Guibing Guo, Jianzhe Zhao, Xingwei Wang</i>	
RDPI: A Refine Diffusion Probability Generation Method for Spatiotemporal Data Imputation	12255
<i>Zijin Liu, Xiang Zhao, You Song</i>	
SIGMA: Selective Gated Mamba for Sequential Recommendation	12264
<i>Ziwei Liu, Qidong Liu, Yejing Wang, Wanyu Wang, Pengyue Jia, Maolin Wang, Zitao Liu, Yi Chang, Xiangyu Zhao</i>	
Revisiting Multimodal Fusion for 3D Anomaly Detection from an Architectural Perspective	12273
<i>Kaifang Long, Guoyang Xie, Lianbo Ma, Jiaqi Liu, Zhichao Lu</i>	
EPERM: An Evidence Path Enhanced Reasoning Model for Knowledge Graph Question and Answering	12282
<i>Xiao Long, Liansheng Zhuang, Aodi Li, MingHong Yao, Shafei Wang</i>	
Densest k-Subgraph Mining via a Provably Tight Relaxation.....	12291
<i>Qiheng Lu, Nicholas D Sidiropoulos, Aritra Konar</i>	
One for Dozens: Adaptive REcommendation for All Domains with Counterfactual Augmentation.....	12300
<i>Huishi Luo, Yiwen Chen, Yiqing Wu, Fuzhen Zhuang, Deqing Wang</i>	
Enhancing Sequential Recommendation with Global Diffusion	12309
<i>Mingxuan Luo, Yang Li, Chen Lin</i>	
FairGP: A Scalable and Fair Graph Transformer Using Graph Partitioning.....	12319
<i>Renqiang Luo, Huafei Huang, Ivan Lee, Chengpei Xu, Jianzhong Qi, Feng Xia</i>	
Dynamic Multi-Interest Graph Neural Network for Session-Based Recommendation	12328
<i>Mingyang Lv, Xiangfeng Liu, Yuanbo Xu</i>	

AD4CD: Causal-Guided Anomaly Detection for Enhancing Cognitive Diagnosis.....	12337
<i>Haiping Ma, Yue Yao, Changqian Wang, Siyu Song, Yong Yang</i>	
Sub-Interest-Aware Representation Uniformity for Recommender System.....	12346
<i>Ruijia Ma, Yahong Lian, Chunyao Song</i>	
S ² DN: Learning to Denoise Unconvincing Knowledge for Inductive Knowledge Graph Completion	12355
<i>Tengfei Ma, Yujie Chen, Liang Wang, Xuan Lin, Bosheng Song, Xiangxiang Zeng</i>	
On Designing the Optimal Integrated Ad Auction in E-commerce Platforms.....	12364
<i>Yuchao Ma, Weian Li, Yuhan Wang, Zitian Guo, Yuejia Dou, Qi Qi, Changyuan Yu</i>	
GenAuction: A Generative Auction for Online Advertising	12372
<i>Yuchao Ma, Ruohan Qian, Bingzhe Wang, Qi Qi, Wenqiang Liu, Qian Tang, Zhao Shen, Wei Zhong, Bo Shen, Yixin Su, Bin Zou, Wen Yi, Zhi Guo, Shuanglong Li, Lin Liu</i>	
Unveiling Multi-View Anomaly Detection: Intra-view Decoupling and Inter-view Fusion	12381
<i>Kai Mao, Yiyang Lian, Yangyang Wang, Meiqin Liu, Nanning Zheng, Ping Wei</i>	
DutyTTE: Deciphering Uncertainty in Origin-Destination Travel Time Estimation.....	12390
<i>Xiaowei Mao, Yan Lin, Shengnan Guo, Yubin Chen, Xingyu Xian, Haomin Wen, Qisen Xu, Youfang Lin, Huaiyu Wan</i>	
DOGE: LLMs-Enhanced Hyper-Knowledge Graph Recommender for Multimodal Recommendation.....	12399
<i>Fanshen Meng, Zhenhua Meng, Ru Jin, Rongheng Lin, Budan Wu</i>	
Trust-GRS: A Trustworthy Training Framework for Graph Neural Network Based Recommender Systems Against Shilling Attacks	12408
<i>Lingyu Mu, Zhengxiao Liu, Zhitong Zhu, Zheng Lin</i>	
Towards Trustworthy Knowledge Graph Reasoning: An Uncertainty Aware Perspective	12417
<i>Bo Ni, Yu Wang, Lu Cheng, Erik Blasch, Tyler Derr</i>	
LS-TGNN: Long and Short-Term Temporal Graph Neural Network for Session-Based Recommendation.....	12426
<i>Zhonghong Ou, Xiao Zhang, Yifan Zhu, Shuai Lyu, Jiahao Liu, Tu Ao</i>	
Tab-Shapley: Identifying Top-k Tabular Data Quality Insights.....	12435
<i>Manisha Padala, Lokesh Nagalapatti, Atharv Tyagi, Ramasuri Narayanam, Shiv Kumar Saini</i>	
A Label-free Heterophily-guided Approach for Unsupervised Graph Fraud Detection	12443
<i>Junjun Pan, Yixin Liu, Xin Zheng, Yizhen Zheng, Alan Wee-Chung Liew, Fuyi Li, Shirui Pan</i>	
Guaranteeing Out-Of-Distribution Detection in Deep RL via Transition Estimation.....	12452
<i>Mohit Prashant, Arvind Easwaran, Suman Das, Michael Yuhas</i>	
Seeing Beyond Noise: Joint Graph Structure Evaluation and Denoising for Multimodal Recommendation.....	12461
<i>Yuxin Qi, Quan Zhang, Xi Lin, Xiu Su, Jiani Zhu, Jingyu Wang, Jianhua Li</i>	
Online Fraud Detection via Test-Time Retrieval-Based Representation Enrichment.....	12470
<i>Yiran Qiao, Ningtao Wang, Yuncong Gao, Yang Yang, Xing Fu, Weiqiang Wang, Xiang Ao</i>	
GeoMamba: Towards Multi-granular POI Recommendation with Geographical State Space Model.....	12479
<i>Yifang Qin, Jiaxuan Xie, Zhiping Xiao, Ming Zhang</i>	

Domain-Level Disentanglement Framework Based on Information Enhancement for Cross-Domain Cold-Start Recommendation	12488
<i>Nian Rong, Fei Xiong, Shirui Pan, Guixun Luo, Jia Wu, Liang Wang</i>	
Hyperparametric Robust and Dynamic Influence Maximization	12497
<i>Arkaprava Saha, Bogdan Cautis, Xiaokui Xiao, Laks V. S. Lakshmanan</i>	
Towards Loss-Resilient Image Coding for Unstable Satellite Networks.....	12506
<i>Hongwei Sha, Muchen Dong, Quanyou Luo, Ming Lu, Hao Chen, Zhan Ma</i>	
Adversarial Contrastive Graph Masked AutoEncoder Against Graph Structure and Feature Dual Attacks.....	12515
<i>Weixuan Shen, Xiaobo Shen, Shirui Pan</i>	
AlphaForge: A Framework to Mine and Dynamically Combine Formulaic Alpha Factors	12524
<i>Hao Shi, Weili Song, Xinting Zhang, Jiahe Shi, Cuicui Luo, Xiang Ao, Hamid Arian, Luis Angel Seco</i>	
Ready for You When You Are Back: Content-Driven Session-Based Recommendation for Continuity of Experience.....	12533
<i>Brijraj Singh, Sonal , Niranjan Pedaneekar</i>	
Multi-Modal Recommendation Unlearning for Legal, Licensing, and Modality Constraints.....	12541
<i>Yash Sinha, Murari Mandal, Mohan Kankanhalli</i>	
Integrating Personalized Spatio-Temporal Clustering for Next POI Recommendation	12550
<i>Chao Song, Zheng Ren, Li Lu</i>	
UniFORM: Towards Unified Framework for Anomaly Detection on Graphs.....	12559
<i>Chuancheng Song, Xixun Lin, Hanyang Shen, Yanmin Shang, Yanan Cao</i>	
Enhancing Diffusion Model with Auxiliary Information Mining-Exploration and Efficient Sampling Mechanism for Sequential Recommendation.....	12568
<i>Te Song, Lianyong Qi, Weiming Liu, Fan Wang, Xiaolong Xu, Xuyun Zhang, Amin Beheshti, Xiaokang Zhou, Wanchun Dou</i>	
Genomics Data Lossless Compression with (S, K)-Mer Encoding and Deep Neural Networks.....	12577
<i>Hui Sun, Liping Yi, Huidong Ma, Yongxia Sun, Yingfeng Zheng, Wenwen Cui, Meng Yan, Gang Wang, Xiaoguang Liu</i>	
Pioneer: Physics-informed Riemannian Graph ODE for Entropy-increasing Dynamics	12586
<i>Li Sun, Ziheng Zhang, Zixi Wang, Yujie Wang, Qiqi Wan, Hao Li, Hao Peng, Philip S. Yu</i>	
GDiffRetro: Retrosynthesis Prediction with Dual Graph Enhanced Molecular Representation and Diffusion Generation	12595
<i>Shengyin Sun, Wenhao Yu, Yuxiang Ren, Weitao Du, Liwei Liu, Xuechang Zhang, Ying Hu, Chen Ma</i>	
LLM4RSR: Large Language Models as Data Correctors for Robust Sequential Recommendation	12604
<i>Yatong Sun, Xiaochun Yang, Zhu Sun, Yan Wang, Bin Wang, Xinghua Qu</i>	
EDGE: Unknown-aware Multi-label Learning by Energy Distribution Gap Expansion.....	12613
<i>Yuchen Sun, Qianqian Xu, Zitai Wang, Zhiyong Yang, Junwei He</i>	
Hubness Change Point Detection	12622
<i>Ikumi Suzuki, Kazuo Hara, Eiji Murakami</i>	

Language Pre-training Guided Masking Representation Learning for Time Series Classification	12631
<i>Liaoyuan Tang, Zheng Wang, Jie Wang, Guanxiong He, Zhezheng Hao, Rong Wang, Feiping Nie</i>	
Unlocking the Power of Patch: Patch-Based MLP for Long-Term Time Series Forecasting	12640
<i>Peiwan Tang, Weitai Zhang</i>	
CoDeR: Counterfactual Demand Reasoning for Sequential Recommendation.....	12649
<i>Shuai Tang, Sitao Lin, Jianghong Ma, Xiaofeng Zhang</i>	
Adapting to Non-Stationary Environments: Multi-Armed Bandit Enhanced Retrieval-Augmented Generation on Knowledge Graphs	12658
<i>Xiaqiang Tang, Jian Li, Nan Du, Sihong Xie</i>	
ScoreNet: Consistency-driven Framework with Multi-side Information Fusion for Session-based Recommendation.....	12667
<i>Piao Tong, Qiao Liu, Zhipeng Zhang, Yuke Wang, Tian Lan</i>	
POI Recommendation via Multi-Objective Adversarial Imitation Learning.....	12676
<i>Zhenglin Wan, Anjun Gao, Xingrui Yu, Pingfu Chao, Jun Song, Maohao Ran</i>	
Explicit and Implicit Examinee-Question Relation Exploiting for Efficient Computerized Adaptive Testing	12685
<i>Changqian Wang, Shangshang Yang, Siyu Song, Ziwen Wang, Haiping Ma, Xingyi Zhang, Bo Jin</i>	
ChatTime: A Unified Multimodal Time Series Foundation Model Bridging Numerical and Textual Data	12694
<i>Chengsen Wang, Qi Qi, Jingyu Wang, Haifeng Sun, Zirui Zhuang, Jinming Wu, Lei Zhang, Jianxin Liao</i>	
DR-VAE: Debaised and Representation-enhanced Variational Autoencoder for Collaborative Recommendation.....	12703
<i>Fan Wang, Chaochao Chen, Weiming Liu, Minye Lei, Jintao Chen, Yuwen Liu, Xiaolin Zheng, Jianwei Yin</i>	
M ³ EL: A Multi-task Multi-topic Dataset for Multi-modal Entity Linking.....	12712
<i>Fang Wang, Shenglin Yin, Xiaoying Bai, Minghao Hu, Tianwei Yan, Yi Liang</i>	
UniPCGC: Towards Practical Point Cloud Geometry Compression via an Efficient Unified Approach	12721
<i>Kangli Wang, Wei Gao</i>	
MDFG: Multi-Dimensional Fine-Grained Modeling for Fatigue Detection	12730
<i>Mei Wang, Xiaojie Zhu, Ruimin Hu, Dongliang Zhu, Liang Liao, Mang Ye</i>	
Towards S ² -Challenges Underlying LLM-Based Augmentation for Personalized News Recommendation.....	12739
<i>Shicheng Wang, Hengzhu Tang, Li Gao, Shu Guo, Suqi Cheng, Junfeng Wang, Dawei Yin, Tingwen Liu, Lihong Wang</i>	
Intent Oriented Contrastive Learning for Sequential Recommendation.....	12748
<i>Wuhong Wang, Jianhui Ma, Yuren Zhang, Kai Zhang, Junzhe Jiang, Yihui Yang, Yacong Zhou, Zheng Zhang</i>	

Towards Unbiased Information Extraction and Adaptation in Cross-Domain Recommendation	12757
<i>Yibo Wang, Yingchun Jian, Wenhao Yang, Shiyin Lu, Lei Shen, Bing Wang, Xiaoyi Zeng, Lijun Zhang</i>	
Sim4Rec: Data-Free Model Extraction Attack on Sequential Recommendation	12766
<i>Yihao Wang, Jiajie Su, Chaochao Chen, Meng Han, Chi Zhang, Jun Wang</i>	
Accurate and Regret-Aware Numerical Problem Solver for Tabular Question Answering	12775
<i>Yuxiang Wang, Jianzhong Qi, Junhao Gan</i>	
Rule-Guided Graph Neural Networks for Explainable Knowledge Graph Reasoning	12784
<i>Zhe Wang, Suxue Ma, Kewen Wang, Zhiqiang Zhuang</i>	
Federated Recommendation with Explicitly Encoding Item Bias	12792
<i>Zhihao Wang, He Bai, Wenke Huang, Duantengchuan Li, Jian Wang, Bing Li</i>	
Counterfactual Task-augmented Meta-learning for Cold-start Sequential Recommendation	12801
<i>Zhiqiang Wang, Jiayi Pan, Xingwang Zhao, Jianqing Liang, Chenjiao Feng, Kaixuan Yao</i>	
C2F-TP: A Coarse-to-Fine Denoising Framework for Uncertainty-Aware Trajectory Prediction.....	12810
<i>Zichen Wang, Hao Miao, Senzhang Wang, Renzhi Wang, Jianxin Wang, Jian Zhang</i>	
Walk Wisely on Graph: Knowledge Graph Reasoning with Dual Agents via Efficient Guidance- Exploration	12818
<i>Zijian Wang, Bin Wang, Haifeng Jing, Huayu Li, Hongbo Dou</i>	
Re2LLM: Reflective Reinforcement Large Language Model for Session-based Recommendation.....	12827
<i>Ziyan Wang, Yingpeng Du, Zhu Sun, Haoyan Chua, Kaidong Feng, Wenya Wang, Jie Zhang</i>	
Prompt-based Unifying Inference Attack on Graph Neural Networks	12836
<i>Yuecen Wei, Xingcheng Fu, Lingyun Liu, Qingyun Sun, Hao Peng, Chunming Hu</i>	
Learning Multiple User Distributions for Recommendation via Guided Conditional Diffusion.....	12845
<i>Cheng Wu, Liang Su, Chaokun Wang, Shaoyun Shi, Ziqian Zhang, Ziyang Liu, Wang Peng, Wenjin Wu, Peng Jiang</i>	
Cross-Domain Trajectory Association Based on Hierarchical Spatiotemporal Enhanced Attention Hypergraph	12854
<i>Chenlong Wu, Ze Wang, Keqing Cen, Yude Bai, Jin Hao</i>	

PART 2

Conditional Latent Coding with Learnable Synthesized Reference for Deep Image Compression	12863
<i>Siqi Wu, Yinda Chen, Dong Liu, Zhihai He</i>	
Graph Coarsening via Supervised Granular-Ball for Scalable Graph Neural Network Training	12872
<i>Shuyin Xia, Xinjun Ma, Zhiyuan Liu, Cheng Liu, Sen Zhao, Guoyin Wang</i>	
Improving Complex Reasoning over Knowledge Graph with Logic-Aware Curriculum Tuning	12881
<i>Tianle Xia, Liang Ding, Guojia Wan, Yibing Zhan, Bo Du, Dacheng Tao</i>	
Robust Graph Based Social Recommendation Through Contrastive Multi-View Learning	12890
<i>Fei Xiong, Tao Zhang, Shirui Pan, Guixun Luo, Liang Wang</i>	

STAIR: Manipulating Collaborative and Multimodal Information for E-Commerce Recommendation.....	12899
<i>Cong Xu, Yunhang He, Jun Wang, Wei Zhang</i>	
MENTOR: Multi-level Self-supervised Learning for Multimodal Recommendation.....	12908
<i>Jinfeng Xu, Zheyu Chen, Shuo Yang, Jinze Li, Hewei Wang, Edith C. H. Ngai</i>	
MEATRD: Multimodal Anomalous Tissue Region Detection Enhanced with Spatial Transcriptomics	12918
<i>Kaichen Xu, Qilong Wu, Yan Lu, Yinan Zheng, Wenlin Li, Xingjie Tang, Jun Wang, Xiaobo Sun</i>	
KGCR: An Effective Metric-Driven Knowledge Graph Completion Framework by Designing a Novel Upper Bound Function with Adaptive Approximation to Reciprocal Rank.....	12927
<i>Kuan Xu, Kuo Yang, Jian Liu, Xiangkui Lu, Jun Wu, Xuezhong Zhou</i>	
Semantic Enhanced Heterogeneous Hypergraph Network for Collaborative Filtering.....	12936
<i>Mingtao Xu, Wei Wei, Peixuan Yang, Hulong Wu</i>	
KITS: Inductive Spatio-Temporal Kriging with Increment Training Strategy	12945
<i>Qianxiong Xu, Cheng Long, Ziyue Li, Sijie Ruan, Rui Zhao, Zhishuai Li</i>	
NLGT: Neighborhood-based and Label-enhanced Graph Transformer Framework for Node Classification.....	12954
<i>Xiaolong Xu, Yibo Zhou, Haolong Xiang, Xiaoyong Li, Xuyun Zhang, Lianyong Qi, Wanchun Dou</i>	
Out-of-Distribution Generalization on Graphs via Progressive Inference.....	12963
<i>Yiming Xu, Bin Shi, Zhen Peng, Huixiang Liu, Bo Dong, Chen Chen</i>	
Revisiting Graph Contrastive Learning on Anomaly Detection: A Structural Imbalance Perspective	12972
<i>Yiming Xu, Zhen Peng, Bin Shi, Xu Hua, Bo Dong, Song Wang, Chen Chen</i>	
Reverse Region-to-Entity Annotation for Pixel-Level Visual Entity Linking	12981
<i>Zhengfei Xu, Sijia Zhao, Yanchao Hao, Xiaolong Liu, Lili Li, Yuyang Yin, Bo Li, Xi Chen, Xin Xin</i>	
Federated Graph Condensation with Information Bottleneck Principles	12990
<i>Bo Yan, Sihao He, Cheng Yang, Shang Liu, Yang Cao, Chuan Shi</i>	
Correlation-Attention Masked Temporal Transformer for User Identity Linkage Using Heterogeneous Mobility Data.....	12999
<i>Ziang Yan, Xingyu Zhao, Hanqing Ma, Wei Chen, Jianpeng Qi, Yanwei Yu, Junyu Dong</i>	
Co-Progression Knowledge Distillation with Knowledge Prototype for Industrial Anomaly Detection	13008
<i>Bokang Yang, Zhe Zhang, Jie Ma</i>	
Promptable Anomaly Segmentation with SAM Through Self-Perception Tuning.....	13017
<i>Hui-Yue Yang, Hui Chen, Ao Wang, Kai Chen, Zijia Lin, Yongliang Tang, Pengcheng Gao, Yuming Quan, Jungong Han, Guiguang Ding</i>	
Harnessing Language Model for Cross-Heterogeneity Graph Knowledge Transfer	13026
<i>Jinyu Yang, Ruijia Wang, Cheng Yang, Bo Yan, Qimin Zhou, Yang Juan, Chuan Shi</i>	
Curriculum Conditioned Diffusion for Multimodal Recommendation	13035
<i>Yimeng Yang, Haokai Ma, Lei Meng, Shuo Xu, Ruobing Xie, Xiangxu Meng</i>	

Erase Then Rectify: A Training-Free Parameter Editing Approach for Cost-Effective Graph Unlearning.....	13044
<i>Zhe-Rui Yang, Jindong Han, Chang-Dong Wang, Hao Liu</i>	
Disentangled Modeling of Preferences and Social Influence for Group Recommendation	13052
<i>Guangze Ye, Wen Wu, Guoqing Wang, Xi Chen, Hong Zheng, Liang He</i>	
Disentangling Tabular Data Towards Better One-Class Anomaly Detection	13061
<i>Jianan Ye, Zhaorui Tan, Yijie Hu, Xi Yang, Guangliang Cheng, Kaizhu Huang</i>	
Harnessing Multimodal Large Language Models for Multimodal Sequential Recommendation	13069
<i>Yuyang Ye, Zhi Zheng, Yishan Shen, Tianshu Wang, Hengruo Zhang, Peijun Zhu, Runlong Yu, Kai Zhang, Hui Xiong</i>	
Diffusion-based Semantic Outlier Generation via Nuisance Awareness for Out-of-Distribution Detection	13078
<i>Suhee Yoon, Sanghyu Yoon, Ye Seul Sim, Sungik Choi, Kyungeun Lee, Hye-Seung Cho, Hankook Lee, Woohyung Lim</i>	
Leveraging Large Language Models for Node Generation in Few-Shot Learning on Text-Attributed Graphs	13087
<i>Jianxiang Yu, Yuxiang Ren, Chenghua Gong, Jiaqi Tan, Xiang Li, Xuechang Zhang</i>	
Mind Individual Information! Principal Graph Learning for Multimedia Recommendation	13096
<i>Penghang Yu, Zhiyi Tan, Guanming Lu, Bing-Kun Bao</i>	
Towards Effective, Efficient and Unsupervised Social Event Detection in the Hyperbolic Space.....	13106
<i>Xiaoyan Yu, Yifan Wei, Shuaishuai Zhou, Zhiwei Yang, Li Sun, Hao Peng, Liehuang Zhu, Philip S. Yu</i>	
Dynamic Neighborhood Modeling via Node-Subgraph Contrastive Learning for Graph-Based Fraud Detection	13115
<i>Zhizhi Yu, Chundong Liang, Xinglong Chang, Dongxiao He, Di Jin, Jianguo Wei</i>	
Fuzzy Collaborative Reasoning.....	13124
<i>Huanhuan Yuan, Pengpeng Zhao, Jiaqing Fan, Junhua Fang, Guanfeng Liu, Victor S. Sheng</i>	
Dynamic Graph Learning with Static Relations for Credit Risk Assessment.....	13133
<i>Qi Yuan, Yang Liu, Yateng Tang, Xinhuan Chen, Xuehao Zheng, Qing He, Xiang Ao</i>	
CoT4Rec: Revealing User Preferences Through Chain of Thought for Recommender Systems.....	13142
<i>Weiqi Yue, Yuyu Yin, Xin Zhang, Binbin Shi, Tingting Liang, Jian Wan</i>	
Fast Track to Winning Tickets: Repowering One-Shot Pruning for Graph Neural Networks.....	13152
<i>Yanwei Yue, Guibin Zhang, Haoran Yang, Dawei Cheng</i>	
Rethinking Cancer Gene Identification Through Graph Anomaly Analysis.....	13161
<i>Yilong Zang, Lingfei Ren, Yue Li, Zhikang Wang, David Antony Selby, Zheng Wang, Sebastian Josef Vollmer, Hongzhi Yin, Jiangning Song, Junhang Wu</i>	
Normalize Then Propagate: Efficient Homophilous Regularization for Few-Shot Semi-Supervised Node Classification	13170
<i>Baoming Zhang, MingCai Chen, Jianqing Song, Shuangjie Li, Jie Zhang, Chongjun Wang</i>	
Core Knowledge Learning Framework for Graph.....	13179
<i>Bowen Zhang, Zhichao Huang, Guangning Xu, Xiaomao Fan, Mingyan Xiao, Genan Dai, Hu Huang</i>	

AdaDPCC: Adaptive Rate Control and Rate-Distortion-Complexity Optimization for Dynamic Point Cloud Compression.....	13188
<i>Chenhao Zhang, Wei Gao</i>	
Multifaceted User Modeling in Recommendation: A Federated Foundation Models Approach.....	13197
<i>Chunxu Zhang, Guodong Long, Hongkuan Guo, Zhaojie Liu, Guorui Zhou, Zijian Zhang, Yang Liu, Bo Yang</i>	
DREAM: Decoupled Discriminative Learning with Bigraph-aware Alignment for Semi-supervised 2D-3D Cross-modal Retrieval.....	13206
<i>Fan Zhang, Changhu Wang, Zebang Cheng, Xiaojiang Peng, Dongjie Wang, Yijia Xiao, Chong Chen, Xian-Sheng Hua, Xiao Luo</i>	
Learned Image Transmission with Hierarchical Variational Autoencoder	13215
<i>Guangyi Zhang, Hanlei Li, Yunlong Cai, Qiyu Hu, Guanding Yu, Runmin Zhang</i>	
Scalable Trajectory-User Linking with Dual-Stream Representation Networks	13224
<i>Hao Zhang, Wei Chen, Xingyu Zhao, Jianpeng Qi, Guiyuan Jiang, Yanwei Yu</i>	
Expand Horizon: Graph Out-of-Distribution Generalization via Multi-Level Environment Inference.....	13233
<i>Jiaqiang Zhang, Songcan Chen</i>	
Lightweight Yet Fine-Grained: A Graph Capsule Convolutional Network with Subspace Alignment for Shared-Account Sequential Recommendation.....	13242
<i>Jinyu Zhang, Zhongying Zhao, Chao Li, Yanwei Yu</i>	
L3TC: Leveraging RWKV for Learned Lossless Low-Complexity Text Compression.....	13251
<i>Junxuan Zhang, Zhengxue Cheng, Yan Zhao, Shihao Wang, Dajiang Zhou, Guo Lu, Li Song</i>	
Trigger3:Refining Query Correction via Adaptive Model Selector.....	13260
<i>Kequ Zhang, Zhongxiang Sun, Xiao Zhang, Xiaoxue Zang, Kai Zheng, Yang Song, Jun Xu</i>	
Teacher-guided Edge Discriminator for Personalized Graph Masked Autoencoder.....	13269
<i>Qiqi Zhang, Chao Li, Zhongying Zhao</i>	
Integrating Large Language Models and Möbius Group Transformations for Temporal Knowledge Graph Embedding on the Riemann Sphere	13277
<i>Sensen Zhang, Xun Liang, Simin Niu, Zhendong Niu, Bo Wu, Gengxin Hua, Long Wang, Zhenyu Guan, Hanyu Wang, Xuan Zhang, Zhiyu Li, Yuefeng Ma</i>	
Advancing Loss Functions in Recommender Systems: A Comparative Study with a Rényi Divergence-Based Solution	13286
<i>Shengjia Zhang, Jiawei Chen, Changdong Li, Sheng Zhou, Qihao Shi, Yan Feng, Chun Chen, Can Wang</i>	
ExcluIR: Exclusionary Neural Information Retrieval	13295
<i>Wenhao Zhang, Mengqi Zhang, Shiguang Wu, Jiahuan Pei, Zhaochun Ren, Maarten de Rijke, Zhumin Chen, Pengjie Ren</i>	
A Lightweight Sparse Interaction Network for Time Series Forecasting	13304
<i>Xu Zhang, Qitong Wang, Peng Wang, Wei Wang</i>	
Multi-type MOOCs Recommendation: Leveraging Deep Multi-Relational Representation and Hierarchical Reasoning	13313
<i>Ye Zhang, Yanqi Gao, Dongjie Wang, Yupeng Zhou, Jinlong He, Zhaoyang Sun, Minghao Yin</i>	

Tokenization, Fusion, and Augmentation: Towards Fine-grained Multi-modal Entity Representation.....	13322
<i>Yichi Zhang, Zhuo Chen, Lingbing Guo, Yajing Xu, Binbin Hu, Ziqi Liu, Wen Zhang, Huajun Chen</i>	
Rethinking Byzantine Robustness in Federated Recommendation from Sparse Aggregation Perspective.....	13331
<i>Zhongjian Zhang, Mengmei Zhang, Xiao Wang, Lingjuan Lyu, Bo Yan, Junping Du, Chuan Shi</i>	
LLM-Powered User Simulator for Recommender System.....	13339
<i>Zijian Zhang, Shuchang Liu, Ziru Liu, Rui Zhong, Qingpeng Cai, Xiangyu Zhao, Chunxu Zhang, Qidong Liu, Peng Jiang</i>	
UniTR: A Unified Framework for Joint Representation Learning of Trajectories and Road Networks	13348
<i>Jie Zhao, Chao Chen, Yuanshao Zhu, Mingyu Deng, Yuxuan Liang</i>	
Highly Imperceptible Black-Box Graph Injection Attacks with Reinforcement Learning.....	13357
<i>Maochang Zhao, Jing Zhang</i>	
Spatial-Temporal Knowledge Distillation for Takeaway Recommendation.....	13365
<i>Shuyuan Zhao, Wei Chen, Boyan Shi, Liyong Zhou, Shuohao Lin, Huaiyu Wan</i>	
Neighborhood-Aware Negative Sampling for Student Knowledge and Behavior Modeling	13374
<i>Siqian Zhao, Sherry Sahebi</i>	
GRAIN: Multi-Granular and Implicit Information Aggregation Graph Neural Network for Heterophilous Graphs.....	13383
<i>Songwei Zhao, Yuan Jiang, Zijing Zhang, Yang Yu, Hechang Chen</i>	
From Pairwise to Ranking: Climbing the Ladder to Ideal Collaborative Filtering with Pseudo-Ranking	13392
<i>Yuhan Zhao, Rui Chen, Li Chen, Shuang Zhang, Qilong Han, Hongtao Song</i>	
TRACI: A Data-centric Approach for Multi-Domain Generalization on Graphs	13401
<i>Yusheng Zhao, Changhu Wang, Xiao Luo, Junyu Luo, Wei Ju, Zhiping Xiao, Ming Zhang</i>	
Dynamic Spectral Graph Anomaly Detection	13410
<i>Jianbo Zheng, Chao Yang, Tairui Zhang, Longbing Cao, Bin Jiang, Xuhui Fan, Xiao-ming Wu, Xianxun Zhu</i>	
ST-ReP: Learning Predictive Representations Efficiently for Spatial-Temporal Forecasting	13419
<i>Qi Zheng, Zihao Yao, Yaying Zhang</i>	
Tokenphormer: Structure-aware Multi-token Graph Transformer for Node Classification.....	13428
<i>Zijie Zhou, Zhaoqi Lu, Xuekai Wei, Rongqin Chen, Shenghui Zhang, Pak Lon Ip, Leong Hou U</i>	
The Adaptive Q-Network for Recommendation Tasks with Dynamic Item Space	13437
<i>Jianxiang Zhu, Dandan Lai, Zhongcui Ma, Yaxin Peng</i>	
Representation Learning Based Predicate Invention on Knowledge Graphs	13446
<i>Man Zhu, Pengfei Huang, Lei Gu, Xiaolong Xu, Jingyu Han</i>	
Addressing Cold-Start Problem in Click-Through Rate Prediction via Supervised Diffusion Modeling	13455
<i>Wengqiao Zhu, Lulu Wang, Jun Wu</i>	

Ghidorah: Towards Robust Multi-Scale Information Diffusion Prediction via Test-Time Training.....	13464
<i>Wenting Zhu, Chaozhuo Li, Litian Zhang, Senzhang Wang, Xi Zhang</i>	
Refine then Classify: Robust Graph Neural Networks with Reliable Neighborhood Contrastive Refinement	13473
<i>Shuman Zhuang, Zhihao Wu, Zhaoliang Chen, Hong-Ning Dai, Ximeng Liu</i>	
Provable Discriminative Hyperspherical Embedding for Out-of-Distribution Detection.....	13483
<i>Zhipeng Zou, Sheng Wan, Guangyu Li, Bo Han, Tongliang Liu, Lin Zhao, Chen Gong</i>	
LOHA: Direct Graph Spectral Contrastive Learning Between Low-Pass and High-Pass Views	13492
<i>Ziyun Zou, Yinghui Jiang, Lian Shen, Juan Liu, Xiangrong Liu</i>	

Author Index