



CIKM 2024 Schedule - Last Edited October 16, 2024

Conference-At-A-Glance

Tuesday October 22, 2024

Main Conference

ARS	Applied Research Track
FP	Full Paper Track
Re	Resources Track

Oct 22	Room 100CDE	Room 110A	Room 110BC	Room 110D	Room 120A	Room 120B	Room 120C	Room 130
07:30	Breakfast Registration opens at 7:30 AM							
08:30	Conference Opening							
09:00	KEYNOTE: <i>Traversing the Journey of Data and AI: From Convergence to Translation</i>							
10:30	Coffee break							
11:00	FP1: Explainability	FP2: Urban Systems	FP3: Graph Recommendation	FP4: Biomedical & Health 1	ARS1: Search and Retrieval	ARS2: Recommendation 1	FP5: Anomaly Detection	FP6: Performance
12:45	Lunch break							
13:45	FP7: Graph Data Mining	FP8: Time Series Data 1	FP9: Neural Recommendation	FP10: Biomedical & Health 2	ARS3: Recommendation 2	ARS4: Large Language Models 1	FP11: Knowledge Graphs	FP12: Misinformation
15:30	Coffee break							
16:00	FP13: Search and Retrieval	Re1: Privacy, News, Specialized Applications	FP14: Recommender Systems 1	FP15: Medical Domain	ARS5: Large Language Models 2	FP16: Content Understanding	FP17: Stream Data	FP18: Social Networks
17:30 19:30	Welcome Reception and Poster (short papers) and Demo session Room 100AB							

Wednesday October 23, 2024
Main Conference

ARS	Applied Research Track
FP	Full Paper Track
Re	Resources Track

Oct 23	Room 100CDE	Room 110A	Room 110BC	Room 110D	Room 120A	Room 120B	Room 120C	Room 130
08:00	Breakfast Registration opens at 8:00 AM							
09:00	KEYNOTE: <i>Is the Search Engine of the Future a Chatbot?</i>							
10:30	Coffee break							
11:00	FP19: Fairness	FP20: Detection	FP21: Natural Language Processing	FP22: Computer Vision	ARS8: Graphs I	ARS7: Forecasting, Spatial and Temporal	ARS6: Knowledge Discovery	FP23: Federated Learning
12:45	Lunch break							
13:45	FP24: IR & LLM 1	FP25: Data Quality	FP26: Recommender Systems 2	FP27: Question Answering	ARS9: Graphs 2	ARS10: Reinforcement Learning Optimization	FP28: Conversational Interactions	FP29: Knowledge Graphs 2
15:30	Coffee break							
16:00	FP30: Machine Learning & AI 1	Re2: Multimodal Dataset Curation and Knowledge Representation	FP31: Recommender Systems 3	FP32: Databases	ARS11: Users & Behaviors	FP33: Data Mining	FP34: Prediction	FP35: Privacy & Security 1
17:30								
18:30	Banquet (Room 400, Boise Centre East, Level 4)							
22:00								

Main Conference

ARS	Applied Research Track
FP	Full Paper Track
Re	Resources Track

Oct 24	Room 100CDE	Room 110A	Room 110BC	Room 110D	Room 120A	Room 120B	Room 120C	Room 130
08:00	Breakfast Registration opens at 8:00 AM							
09:00	KEYNOTE: Ensembles for Outlier Detection and Evaluation							
10:30	Coffee break							
11:00	FP36: LLMs	FP37: Privacy & Security 2	FP38: IR & LLM 2	FP39: Spatio- Temporal Data 1	ARS12: CTR & Ads	ARS13: Vision & Others	FP40: Personaliza- tion	FP41: Graph Learning 1
12:45	Lunch break Business Meeting (Room 130)							
13:45	FP42: Graph Neural Networks 1	FP43: Time-Series Data 2	FP44: Recommender Systems 4	FP45: Spatio- Temporal Data 2	ARS14: Systems & Privacy	ARS15: LLMs, Contrastive Learning, & Others	FP46: Transfer Learning	FP47: Graph Learning 2
15:30	Coffee break							
16:00	FP48: Graph Neural Networks 2	Re3: LLMs Applications & Sentiment Analysis	FP49: Machine Learning & AI 2		FP50: Knowledge Representa- tion	FP51: Data Retrieval, Matching & Prediction	FP52: Robust & Resilient AI	FP53: AI-driven Approaches
17:30 18:00	Closing (Room 100CDE)							

Friday October 25, 2024
Workshops, AnalytiCup, PhD Symposium

Oct 25	Room 100C	Room 100DE	Room 110A	Room 110BC	Room 110D	Room 120A	Room 120B	Room 120C	Room 130
08:00	Breakfast Registration opens at 8:00 AM								
09:00	Workshop: AI Agent for Information Retrieval	Workshop: Knowledge Graphs for Responsible AI	PhD Symposium Presentation Session 1	Workshop: Generative AI for E-Commerce	AnalytiCup: AI Aided Advanced Aerodynamics-Streamlining Automobile Design for Optimal Performance	Workshop: MMSR'24: The 1st Workshop on Multimodal Search and Recommendations	Workshop: The 4th International Workshop on Online and Adaptive Recommender Systems	Workshop: GTA ³ :The 8th Workshop on Graph Techniques for Adversarial Activity Analytics	Workshop: The 3rd International Workshop on Industrial Recommendation Systems
10:30	Coffee break PhD Symposium Mentoring Session 1								
11:00	Workshop: AI Agent for Information Retrieval	Workshop: Knowledge Graphs for Responsible AI	PhD Symposium Presentation Session 2	Workshop: Generative AI for E-Commerce	AnalytiCup: AI Aided Advanced Aerodynamics-Streamlining Automobile Design for Optimal Performance	Workshop: MMSR'24: The 1st Workshop on Multimodal Search and Recommendations	Workshop: The 4th International Workshop on Online and Adaptive Recommender Systems	Workshop: GTA ³ :The 8th Workshop on Graph Techniques for Adversarial Activity Analytics	Workshop: The 3rd International Workshop on Industrial Recommendation Systems
12:45	Lunch Break PhD Symposium Mentoring Session 2								
13:45	Workshop: GenAI and RAG Systems for Enterprise	Workshop: Knowledge Graphs for Responsible AI	PhD Symposium Presentation Session 3	Workshop: Generative AI for E-Commerce	Workshop: DCAI: The 4th International Workshop on Data-Centric AI	Workshop: MMSR'24: The 1st Workshop on Multimodal Search and Recommendations	Workshop: The 4th International Workshop on Online and Adaptive Recommender Systems	Workshop: Trustworthy and Responsible AI for Information and Knowledge Management Systems	Workshop: The 3rd International Workshop on Industrial Recommendation Systems
15:30	Coffee break PhD Symposium Mentoring Session 3								
16:00	Workshop: GenAI and RAG Systems for Enterprise	Workshop: Knowledge Graphs for Responsible AI	PhD Symposium Presentation Session 4, Mentoring Session 4, Closing	Workshop: Generative AI for E-Commerce	Workshop: DCAI: The 4th International Workshop on Data-Centric AI	Workshop: MMSR'24: The 1st Workshop on Multimodal Search and Recommendations	Workshop: The 4th International Workshop on Online and Adaptive Recommender Systems	Workshop: Trustworthy and Responsible AI for Information and Knowledge Management Systems	Workshop: The 3rd International Workshop on Industrial Recommendation Systems
17:30									

Detailed Program

Monday, 09:00 - 17:30, Tutorials

Room: Various

Time: Monday, 09:00 - 17:30

Chair: Various

Monday, 08:45 - 17:45, Industry Day

Room: 130

Time: Monday, 08:45 - 17:45

Chair: Marc Najork (Industry Day Chair)

Monday, 08:45 - 09:00, Welcome and Introduction

Monday, 09:00 - 10:30, Shopping Search I

A Supervised BERT Model for Identifying Core-Intent Bearing Phrases in e-Commerce Queries

Arnab Dutta and Abhishek Sudhakar Deshmukh

Voting with Generative AI for German Compound Splitting in E-commerce Search

Ümit Yilmaz, Kilian Merkelbach, Daniel Stein, Hasan Oezkan

Product Retrieval and Ranking for Alphanumeric Queries

Hadeel Saadany, Swapnil Bhosale, Samarth Agrawal, Zhe Wu, Constantin Orăsan and Diptesh Kanojia

Monday, 11:00 - 12:30 Large Language Models

Bridging Knowledge Gaps in LLMs via Function Calls

Kinjal Basu

Towards Energy-Efficient Llama2 Architecture on Embedded FPGAs

Han Xu, Xingyuan Wang and Shihao Ji

Towards Real-Time and Personalized Code Generation

Han Xu, Xingyuan Wang, and Haipeng Chen

Monday, 14:00 - 15:00, Keynote: Amir Gharib

GraphWeaver: Billion-Scale Cybersecurity Incident Correlation (Amir Gharib, Microsoft Security Research, USA)

Monday, 15:00 - 15:30, Academic Reviewing

Reviewerly: Modeling the Reviewer Assignment Task as an Information Retrieval Problem

Negar Arabzadeh, Sajad Ebrahimi, Reviewerly, Sara Salamat, Reviewerly, Mahdi Bashari and Ebrahim Bagheri

Monday, 16:00 - 17:30, Search 2 and Advertising

AI-safe Autocompletion with RAG and Relevance Curation

Kilian Merkelbach, Ksenia Riabinova and Arnab Dutta

Planes, Trains and Automobiles: Leverage Multimodal In-Mission Signals for Shopping Journeys

Viet Ha-Thuc, Shasha Li, Arnau Ramisa and Xinliang Zhu,

Advertiser Content Understanding via LLMs for Google Ads Safety

Joseph Wallace, Tushar Dogra, Wei Qiao and Yuan Wang

Monday, 17:30 - 17:45, Closing

Tuesday, 08:30 - 09:00, Conference Opening and Welcome

Room: 100CDE

Time: Tuesday, 08:30 - 09:00

Chairs: Edoardo Serra (General Chair), Francesca Spezzano (General Chair), Francesco Gullo (Finance Chair), Zhifeng Bao (Full Research Track Chair), Maria Soledad Pera (Full Research Track Chair), Yinglong Xia (Applied Research Track Chair)

Tuesday, 09:00 - 10:30, Keynote: Nitesh Chawla

Room: 100CDE

Time: Tuesday, 09:00 - 10:30

Chair: Zhifeng Bao

Traversing the Journey of Data and AI: From Convergence to Translation

Tuesday, 11:00 - 12:45, Session 1

FP1: Explainability

Room: 100CDE

Time: Tuesday, 11:00 - 12:45

Chair: Saurabh S Vaichal

1FP1: A Learning-based Approach for Explaining Language Models

Oren Barkan, Yonatan Toib, Yehonatan Elisha and Noam Koenigstein

2FP1: Leveraging Local Structure for Improving Model Explanations: An Information Propagation Approach

Ruo Yang, Binghui Wang and Mustafa Bilgic

3FP1: PARs: Predicate-based Association Rules for Efficient and Accurate Anomaly Explanation

Cheng Feng

4FP1: Aligning Explanations for Recommendation with Rating and Feature via Maximizing Mutual Information

Yurou Zhao, Yiding Sun, Ruidong Han, Fei Jiang, Lu Guan, Xiang Li, Wei Lin, Weizhi Ma and Jiaxin Mao

5FP1: Semantic Prototypes: Enhancing transparency without black boxes

Orfeas Menis Mastromichalakis, Giorgos Filandrianos, Jason Liartis, Edmund Dervakos and Giorgos Stamou

6FP1: HiLite: Hierarchical Level-implemented Architecture Attaining Part-Whole Interpretability

Yoo Hyun Jeong, Sunghyun Hwang and Dong-Kyu Chae

7FP1: Explainable Stock Price Movement Prediction using Contrastive Learning

Kelvin Du, Rui Mao, Frank Xing and Erik Cambria

FP2: Urban Systems

Room: 110A

Time: Tuesday, 11:00 - 12:45

Chair: Longchao Da

1FP2: Spatio-temporal Graph Normalizing Flow for Probabilistic Traffic Prediction

Yang An, Zhibin Li, Wei Liu, Haoliang Sun, Meng Chen, Wenpeng Lu and Yongshun Gong

2FP2: Physics-guided Active Sample Reweighting for Urban Flow Prediction

Wei Jiang, Tong Chen, Guanhua Ye, Wentao Zhang, Lizhen Cui, Zi Huang and Hongzhi Yin

3FP2: MSTEM: Masked Spatiotemporal Event Series Modeling for Urban Undisciplined Events Forecasting

Zehao Gu, Shiyang Zhou, Yun Xiong, Yang Luo, Hongrun Ren, Qiang Wang, Xiaofeng Gao and Philip S. Yu

4FP2: EasyST: A Simple Framework for Spatio-Temporal Prediction

Jiabin Tang, Wei Wei, Lianghao Xia and Chao Huang

5FP2: ST-ECP: A novel Spatial-Temporal Framework for Energy Consumption Prediction of Vehicle Trajectory

Biao Yang, Yun Xiong, Xi Chen, Xuejing Feng, Meng Wang and Jun Ma

6FP2: FGITrans: Cross-City Transformer for Fine-grained Urban Flow Inference

Yuhao Zheng, Yishuo Cai, Zihao Cai, Changjun Fan, Senzhang Wang and Jianxin Wang

7FP2: AdaTM: Fine-grained Urban Flow Inference with Adaptive Knowledge Transfer across Multiple Cities

Yuhao Zheng, Jinyang Wu, Zihao Cai, Senzhang Wang and Jianxin Wang

FP3: Graph Recommendation

Room: 110BC

Time: Tuesday, 11:00 - 12:45

Chair: Daniele Malitesta

1FP3: Social Influence Learning for Recommendation Systems

Ximing Chen, Pui Ieng Lei, Yijun Sheng, Yanyan Liu and Zhiguo Gong

2FP3: EFVAE: Efficient Federated Variational Autoencoders for Collaborative Filtering

Lu Zhang, Qian Rong, Xuanang Ding, Guohui Li and Yuan Ling

3FP3: Do We Really Need Graph Convolution During Training? Light Post-Training Graph-ODE for Efficient Recommendation

Weizhi Zhang, Liangwei Yang, Zihe Song, Henry Peng Zou, Ke Xu, Liancheng Fang and Philip S. Yu

4FP3: HGCH: A Hyperbolic Graph Convolution Network Model for Heterogeneous Collaborative Graph Recommendation

Lu Zhang and Ning Wu

5FP3: A power method to alleviate over-smoothing for recommendation

Peng Zhou, Yachao Cui and Han Cao

6FP3: A General Strategy Graph Collaborative Filtering for Recommendation Unlearning

Yongjing Hao, Fuzhen Zhuang, Deqing Wang, Guanfeng Liu, Victor S. Sheng and Pengpeng Zhao

7FP3: PTSR: Prefix-Target Graph-based Sequential Recommendation

Jiayu Chen, Xiaoyu Du, Yonghua Pan and Jinhui Tang

FP4: Biomedical & Health 1

Room: 110D

Time: Tuesday, 11:00 - 12:45

Chair: Donghee Choi

1FP4: CLR2G: Cross modal Contrastive Learning on Radiology Report Generation

Hongchen Xue, Qingzhi Ma, Guanfeng Liu, Jianfeng Qu, Yuanjun Liu and An Liu

2FP4: Exploiting Pre-trained Models for Drug Target Affinity Prediction with Nearest Neighbors

Qizhi Pei, Lijun Wu, Zhenyu He, Jinhua Zhu, Yingce Xia, Shufang Xie and Rui Yan

3FP4: Buffalo: Biomedical Vision-Language Understanding with Cross-Modal Prototype and Federated Foundation Model Collaboration

Bingjie Yan, Qian Chen, Yiqiang Chen, Xinlong Jiang, Wuliang Huang, Bingyu Wang, Zhirui Wang, Chenlong Gao and Teng Zhang

4FP4: 3M-Health: Multimodal Multi-Teacher Knowledge Distillation for Mental Health Detection

Rina Carines Cabral, Siwen Luo, Caren Han and Josiah Poon

5FP4: iMIRACLE: an Iterative Multi-View Graph Neural Network to Model Intercellular Gene Regulation From Spatial Transcriptomic Data

Ziheng Duan, Siwei Xu, Che Yu Lee, Dylan Riffle and Jing Zhang

6FP4: Devil in the Tail: A Multi-Modal Framework for Drug-Drug Interaction Prediction in Long Tail Distinction

Liangwei Nathan Zheng, Chang George Dong, Wei Emma Zhang, Xin Chen, Yue Lin and Weitong Chen

7FP4: MMPolymer: A Multimodal Multitask Pretraining Framework for Polymer Property Prediction

Fanmeng Wang, Wentao Guo, Minjie Cheng, Shen Yuan, Hongteng Xu and Zhifeng Gao

FP5: Anomaly Detection

Room: 120C

Time: Tuesday, 11:00 - 12:45

Chair: Karankumar Sabhnani

1FP5: Retrieval Augmented Deep Anomaly Detection for Tabular Data

Hugo Thimonier, Fabrice Popineau, Arpad Rimmel and Bich-Liên Doan

2FP5: Graph Anomaly Detection with Adaptive Node Mixup

Qinghai Zhou, Yuzhong Chen, Zhe Xu, Yuhang Wu, Menghai Pan, Mahashweta Das, Hao Yang and Hanghang Tong

3FP5: Multivariate Time-Series Anomaly Detection based on Enhancing Graph Attention Networks with Topological Analysis

Zhe Liu, Xiang Huang, Jingyun Zhang, Li Sun, Zhifeng Hao and Hao Peng

4FP5: Enhancing Anomaly Detection via Generating Diversified and Hard-to-distinguish Synthetic Anomalies

Hyuntae Kim and Changhee Lee

5FP5: GAD: A Generalized Framework for Anomaly Detection at Different Risk Levels

Rulan Wei, Zewei He, Martin Pavlovski and Fang Zhou

6FP5: Graph Local Homophily Network for Anomaly Detection

Ronghui Guo, Minghui Zou, Sai Zhang, Xiaowang Zhang, Zhizhi Yu and Zhiyong Feng

7FP5: Transformer for Point Anomaly Detection

Harim Kim, Chang Ha Lee and Charmgil Hong

FP6: Performance

Room: 130

Time: Tuesday, 11:00 - 12:45

Chair: Shichao Pei

1FP6: MMLRec: A Unified Multi-Task and Multi-Scenario Learning Benchmark for Recommendation

Guanghu Yuan, Jieyu Yang, Shujie Li, Mingjie Zhong, Ang Li, Ke Ding, Yong He, Min Yang, Liang Zhang, Xiaolu Zhang, Zhongyi Liu and Linjian Mo

2FP6: Assessing Image Inpainting via Re-Inpainting Self-Consistency Evaluation

Tianyi Chen, Jianfu Zhang, Yan Hong, Yiyi Zhang and Liqing Zhang

3FP6: Towards Fair Graph Anomaly Detection: Problem, Benchmark Datasets, and Evaluation

Neng Kai Nigel Neo, Yeon-Chang Lee, Yiqiao Jin, Sang-Wook Kim and Srijan Kumar

4FP6: XCrowd: Combining Explainability and Crowdsourcing to Diagnose Models in Relation Extraction

Alisa Smirnova, Jie Yang and Philippe Cudre-Mauroux

5FP6: Saliency Detection in Educational Videos: Analyzing the Performance of Current Models, Identifying Limitations and Advancement Directions

Evelyn Vanessa Navarrete Yépez, Ralph Ewerth and Anett Hoppe

6FP6: SmartHash: Perceptual Hashing for Image Tampering Detection and Authentication

Priyanka Samanta and Shweta Jain

7FP6: How Much Do Prompting Methods Help LLMs on Quantitative Reasoning with Irrelevant Information?

Seok Hwan Song and Wallapak Tavanapong

ARS1: Search and Retrieval

Room: 120A

Time: Tuesday, 11:00 - 12:45

Chair: Siddarth Reddy Malreddy

1ARS1: A Real-Time Adaptive Multi-Stream GPU System For Online Approximate Nearest Neighborhood Search

Yiping Sun, Yang Shi and Jiaolong Du

2ARS1: LiNR: Model Based Neural Retrieval on GPUs at LinkedIn

Fedor Borisjuk, Qingquan Song, Mingzhou Zhou, Ganesh Parameswaran, Madhu Arun, Siva Popuri, Tugrul Bingol, Zhuotao Pei, Kuang-Hsuan Lee, Lu Zheng, Qizhan Shao, Ali Naqvi, Sen Zhou and Aman Gupta

3ARS1: Relevance Filtering for Embedding-based Retrieval

Nicholas Rossi, Juexin Lin, Feng Liu, Zhen Yang, Tony Lee, Alessandro Magnani and Ciya Liao

4ARS1: STIR: Siamese Transformer for Image Retrieval Postprocessing

Aleksei Shabanov, Aleksei Tarasov and Sergei Nikolenko

5ARS1: Enhancing Relevance of Embedding-based Retrieval at Walmart

Juexin Lin, Sachin Yadav, Feng Liu, Nicholas Rossi, Praveen Suram, Satya Chembolu, Prijith Chandran, Hrushikesh Mohapatra, Tony Lee, Alessandro Magnani and Ciya Liao

6ARS1: Deep Uncertainty-based explore For Index Construction and Retrieval in Recommendation System

Xin Jiang, Kaiqiang Wang, Yinlong Wang, Shuai Yang, Fengchang Lv, Taiyang Peng, Xianteng Wu, Pengye Zhang, Shuo Yuan and Yifan Zeng

7ARS1: REAPER: Reasoning based Retrieval Planning for Complex RAG Systems

Ashutosh Joshi, Sreyashi Nag, Sheikh Sarwar, Samarth Varshney, Shrivats Agrawal and Juhi Naik

ARS2: Recommendation 1

Room: 120B

Time: Tuesday, 11:00 - 12:45

Chair: Aman Gupta Sai Sumanth Miryala

1ARS2: Modeling User Intent Beyond Trigger: Incorporating Uncertainty for Trigger-Induced Recommendation

Jianxing Ma, Zhibo Xiao, Luwei Yang, Hansheng Xue, Xuanzhou Liu, Wen Jiang, Wei Ning and Guannan Zhang

2ARS2: A Self-Adaptive Fairness Constraint Framework for Industrial Recommender System

Zhiqiang Liu, Xiaoxiao Xu, Jiaqi Yu, Han Xu, Lantao Hu, Han Li and Kun Gai

3ARS2: Missing Interest Modeling with Lifelong User Behavior Data for Retrieval Recommendation

Gaode Chen, Yuezihan Jiang, Rui Huang, Kuo Cai, Yunze Luo, Ruina Sun, Qi Zhang, Han Li and Kun Gai

4ARS2: DIFN: A Dual Intention-aware Network for Repeat Purchase Recommendation with Hierarchical Spatio-temporal Fusion

Li Lin, Xin Xu, Hai Wang, Tian He, Desheng Zhang and Shuai Wang

5ARS2: Explainable and Coherent Complement Recommendation based on Large Language Models

Zelong Li, Yan Liang, Ming Wang, Sungro Yoon, Jiaying Shi, Xin Shen, Xiang He, Chenwei Zhang, Wenyi Wu, Hanbo Wang, Jin Li, Jim Chan and Yongfeng Zhang

6ARS2: Sequence-level Semantic Representation Fusion for Recommender Systems

Lanling Xu, Zhen Tian, Bingqian Li, Junjie Zhang, Daoyuan Wang, Hongyu Wang, Jinpeng Wang, Sheng Chen and Wayne Xin Zhao

7ARS1: Pareto-based Multi-Objective Recommender System with Forgetting Curve

Jin Jipeng, Zhaoxiang Zhang, Zhiheng Li, Xiaofeng Gao, Xiongwen Yang, Lei Xiao and Jie Jiang

Tuesday, 13:45 - 15:30, Session 2

FP7: Graph Data Mining

Room: 100CDE

Time: Tuesday, 13:45 - 15:30

Chair: Geon Lee

1FP7: Mining Path Association Rules in Large Property Graphs

Yuya Sasaki and Panagiotis Karras

2FP7: Hierarchical Structure Construction on Hypergraphs

Qi Luo, Wenjie Zhang, Zhengyi Yang, Dong Wen, Xiaoyang Wang, Dongxiao Yu and Xuemin Lin

3FP7: MoTTo: Scalable Motif Counting with Time-aware Topology Constraint for Large-scale Temporal Graphs

Jiantao Li, Jianpeng Qi, Yueling Huang, Lei Cao, Yanwei Yu and Junyu Dong

4FP7: Effective Illicit Account Detection on Large Cryptocurrency MultiGraphs

Zhihao Ding, Jieming Shi, Qing Li and Jiannong Cao

5FP7: MOAT: Graph Prompting for 3D Molecular Graphs

Qingqing Long, Yuchen Yan, Wentao Cui, Meng Xiao, Zhihong Zhu, Wei Ju, Xuezhi Wang and Yuanchun Zhou

6FP7: When LLM Meets Hypergraph: A Sociological Analysis on Personality via Online Social Networks

Zhiyao Shu, Xiangguo Sun and Hong Cheng

7FP7: FCS-HGNN: Flexible Multi-type Community Search in Heterogeneous Information Networks

Guoxin Chen, Fangda Guo, Yongqing Wang, Yanghao Liu, Peiying Yu, Huawei Shen and Xueqi Cheng

FP8: Time Series Data 1

Room: 110A

Time: Tuesday, 13:45 - 15:30

Chair: Mengyu Wang

1FP8: HiMTM: Hierarchical Multi-Scale Masked Time Series Modeling with Self-Distillation for Long-Term Forecasting

Shubao Zhao, Ming Jin, Zhaoxiang Hou, Chengyi Yang, Zengxiang Li, Qingsong Wen and Yi Wang

2FP8: GAS-Norm: Score-Driven Adaptive Normalization for Non-stationary Time Series Forecasting in Deep Learning

Edoardo Urettini, Daniele Atzeni, Reshawn Ramjattan and Antonio Carta

3FP8: GLFNet: Global and Local Frequency-domain Network for Long-term Time Series Forecasting

Xucheng Zhou, Yuwen Liu, Lianying Qi, Xiaolong Xu, Wanchun Dou, Xuyun Zhang, Yang Zhang and Xiaokang Zhou

4FP8: LagCNN: A Fast yet Effective Model for Multivariate Long-term Time Series Forecasting

Linsen Li, Chunfei Jian, Feng Wan, Dongdong Geng, Ziquan Fang, Lu Chen, Yunjun Gao, Weihao Jiang and Jiang Zhu

5FP8: DRFormer: Multi-Scale Transformer Utilizing Diverse Receptive Fields for Long Time-Series Forecasting

Ruixin Ding, Yuqi Chen, Yuting Lan and Wei Zhang

6FP8: Identifying Contemporaneous and Lagged Dependence Structures by Promoting Sparsity in Continuous-time Neural Networks

Fan Wu, Woojin Cho, David Korotky, Sanghyun Hong, Donsub Rim, Noseong Park and Kookjin Lee

7FP8: LTBoost: Boosted Hybrids of ensemble linear and gradient algorithms for the long-term time series forecasting

Hubert Truchan, Christian Kalfar and Zahra Ahmadi

FP9: Neural Recommendations

Room: 110BC

Time: Tuesday, 13:45 - 15:30
Chair: Hyunsik Jeon

1FP9: MultiLoRA: Multi-Directional Low Rank Adaptation for Multi-Domain Recommendation

Zijian Song, Wenhan Zhang, Lifang Deng, Jiandong Zhang, Kaigui Bian and Bin Cui

2FP9: ROLeR: Effective Reward Reshaping in Offline Reinforcement Learning for Recommender Systems

Yi Zhang, Ruihong Qiu, Jiajun Liu and Sen Wang

3FP9: Context Matters: Enhancing Sequential Recommendation with Context-aware Diffusion-based Contrastive Learning

Ziqiang Cui, Haolun Wu, Bowei He, Ji Cheng and Chen Ma

4FP9: UniRec: A Dual Enhancement of Uniformity and Frequency in Sequential Recommendations

Yang Liu, Yitong Wang and Chenyue Feng

5FP9: Content-Based Collaborative Generation for Recommender Systems

Yidan Wang, Zhaochun Ren, Weiwei Sun, Jiyan Yang, Zhixiang Liang, Xin Chen, Ruobing Xie, Su Yan, Xu Zhang, Pengjie Ren, Zhumin Chen and Xin Xin

6FP9: Generative Multi-Behavior Sequential Recommendation

Zihan Liu, Yupeng Hou and Julian McAuley

7FP9: Attacking Visually-aware Recommender Systems with Transferable and Imperceptible Adversarial Styles

Shiyi Yang, Lina Yao, Chen Wang, Xiwei Xu and Liming Zhu

FP10: Biomedical & Health 2

Room: 110D
Time: Tuesday, 13:45 - 15:30
Chair: Mohbat Fnu

1FP10: PRISM: Mitigating EHR Data Sparsity via Learning from Missing Feature Calibrated Prototype Patient Representations

Yinghao Zhu, Zixiang Wang, Long He, Shiyun Xie, Xiaochen Zheng, Liantao Ma and Chengwei Pan

2FP10: Irregularity-Informed Time Series Analysis: Adaptive Modeling of Spatial and Temporal Dynamics

Liangwei Nathan Zheng, Zhengyang Li, Chang George Dong, Wei Emma Zhang, Yue Lin, Miao Xu, Olaf Maennel and Weitong Chen

3FP10: Contrasformer: A Brain Network Contrastive Transformer for Neurodegenerative Condition Identification

Jiaxing Xu, Kai He, Mengcheng Lan, Qingtian Bian, Wei Li, Tieying Li, Yiping Ke and Miao Qiao

4FP10: Compositional and Hierarchical Semantic Learning Model for Hospital Readmission Prediction

Weiting Gao, Xiangyu Gao and Yi Chen

5FP10: Molecule Language Model with Augmented Pairs and Expertise Transfer

Namkyeong Lee, Siddhartha Laghuvarapu, Chanyoung Park and Jimeng Sun

6FP10: scACT: Accurate Cross-modality Translation via Cycle-consistent Training from Unpaired Single-cell Data

Siwei Xu, Junhao Liu and Jing Zhang

7FP10: Contrastive learning for Time Series Classification with Semantic and Temporal False Negative Pairs Elimination

Yu Wu, Ting Dang, Dimitris Spathis, Hong Jia and Cecilia Mascolo

FP11: Knowledge Graphs 1

Room: 120C

Time: Tuesday, 13:45 - 15:30

Chair: Akhil Akella

1FP11: Reviving the Context: Camera Trap Species Classification as Link Prediction on Multimodal Knowledge Graphs

Vardaan Pahuja, Weidi Luo, Yu Gu, Cheng-Hao Tu, Hong-You Chen, Tanya Berger-Wolf, Charles Stewart, Song Gao, Wei-Lun Chao and Yu Su

2FP11: Learning from Novel Knowledge: Continual Few-shot Knowledge Graph Completion

Zhuofeng Li, Haoxiang Zhang, Qiannan Zhang, Ziyi Kou and Shichao Pei

3FP11: Embedding Knowledge Graphs in Function Spaces

Louis Mozart Kamdem Teyou, Caglar Demir and Axel-Cyrille Ngonga Ngomo

4FP11: A Learning-path based Supervised Method for Concept Prerequisite Relations Extraction in Educational Data

Jingwen Sun, Yu He, Yiyu Xu, Jingwei Sun and Guangzhong Sun

5FP11: Chain-of-Layer: Iteratively Prompting Large Language Models for Taxonomy Induction from Limited Examples

Qingkai Zeng, Yuyang Bai, Zhaoxuan Tan, Shangbin Feng, Zhenwen Liang, Zhihan Zhang and Meng Jiang

6FP11: Hierarchical Graph Latent Diffusion Model for Conditional Molecule Generation

Tian Bian, Yifan Niu, Heng Chang, Divin Yan, Junzhou Huang, Yu Rong, Tingyang Xu, Jia Li and Hong Cheng

7FP11: A Knowledge-Enhanced Transformer-FL Method for Fault Root Cause Localization

Zhe Lv, Yaqiong Liu, Xidian Wang, Peng Gao, Zhouyuan Li and Yuanzhen Jiang

FP12: Misinformation

Room: 130

Time: Tuesday, 13:45 - 15:30

Chair: Vinay Setty

1FP12: Let Silence Speak: Enhancing Fake News Detection with Generated Comments from Large Language Models

Qiong Nan, Qiang Sheng, Juan Cao, Beizhe Hu, Danding Wang and Jintao Li

2FP12: Bots Shield Fake News: Adversarial Attack on User Engagement based Fake News Detection

Lanjuan Wang, Zehao Wang, Le Wu and An-An Liu

3FP12: DiHAN: A Novel Dynamic Hierarchical Graph Attention Network for Fake News Detection

Ya-Ting Chang, Zhibo Hu, Xiaoyu Li, Shuiqiao Yang, Jiaojiao Jiang and Nan Sun

4FP12: Why Misinformation is Created? Detecting them by Integrating Intent Features

Bing Wang, Ximing Li, Changchun Li, Bo Fu, Songwen Pei and Shengsheng Wang

5FP12: Multimodal Misinformation Detection using Large Vision-Language Models

Sahar Tahmasebi, Eric Müller-Budack and Ralph Ewerth

6FP12: Data Void Exploits: Tracking & Mitigation Strategies

Miro Mannino, Junior Garcia, Reem Hazim, Azza Abouzied and Paolo Papotti

7FP12: Identifying Disinformation from Online Social Media via Dynamic Modeling across Propagation Stages

Shuai Xu, Jianqiu Xu, Shuo Yu and Bohan Li

ARS3: Recommendation 2

Room: 120A

Time: Tuesday, 13:45 - 15:30

Chair: Djordje Gligorijevic

1ARS3: TWIN V2: Scaling Ultra-Long User Behavior Sequence Modeling for Enhanced CTR Prediction at Kuaishou

Zihua Si, Lin Guan, Zhongxiang Sun, Xiaoxue Zang, Jing Lu, Yiqun Hui, Xingchao Cao, Zeyu Yang, Yichen Zheng, Dewei Leng, Kai Zheng, Chenbin Zhang, Yanan Niu, Yang Song and Kun Gai

2ARS3: An Enhanced Batch Query Architecture in Real-time Recommendation

Qiang Zhang, Zhipeng Teng, Disheng Wu and Jiayin Wang

3ARS3: DivNet: Diversity-Aware Self-Correcting Sequential Recommendation Networks

Shuai Xiao and Zaifan Jiang

4ARS3: ECRT: Flexible Sequence Enhancement Framework for Cross-Domain Information Reuse in Recommendation

Weiqiang Zhao, Zi-Yuan Wu, Yatao Yang, Lifeng Hua and Hao Xiong

5ARS3: Enhancing Playback Performance in Video Recommender Systems with an On-Device Gating and Ranking Framework

Yunfei Yang, Zhenghao Qi, Honghuan Wu, Qi Song, Tieyao Zhang, Hao Li, Ming Yi, Kaiqiao Zhan and Ben Wang

6ARS3: Effective Utilization of Large-scale Unobserved Data in Recommendation Systems

Yulin Xu, Feng Zhang, Honejie Chen, Xu Yuan, Qingwen Liu and Yuning Jiang

7ARS3: MERLIN: Multimodal & Multilingual Embedding for Recommendations at Large-scale via Item Associations

Sambeet Tiady, Arihant Jain, Dween Rabiuss Sanny, Khushi Gupta, Srinivas Virinchi, Swapnil Gupta, Anoop Saladi and Deepak Gupta

ARS4: Large Language Models 1

Room: 120B

Time: Tuesday, 13:45 - 15:30

Chair: Ashutosh Joshi

1ARS4: Building Natural Language Interface for Product Search

Vijit Malik, Vinayak Puranik, Anirban Majumder and Vivek Sembium

2ARS4: RCagent: Cloud Root Cause Analysis by Autonomous Agents with Tool-Augmented Large Language Models

Zefan Wang, Zichuan Liu, Yingying Zhang, Aoxiao Zhong, Jihong Wang, Fengbin Yin, Lunting Fan, Lingfei Wu and Qingsong Wen

3ARS4: LAPIS: Language Model-Augmented Police Investigation System

Heedou Kim, Dain Kim, Jiwoo Lee, Chanwoong Yoon, Donghee Choi, Mogan Gim and Jaewoo Kang

4ARS4: LawLLM: Law Large Language Model for the US Legal System

Dong Shu, Haoran Zhao, Xukun Liu, David Demeter, Mengnan Du and Yongfeng Zhang

5ARS4: Revolutionizing Biomarker Discovery: Leveraging Generative AI for Bio-Knowledge-Embedded Continuous Space Exploration

Wangyang Ying, Dongjie Wang, Xuanming Hu, Ji Qiu, Jin Park and Yanjie Fu

6ARS4: iRAG: Advancing RAG for Videos with an Incremental Approach

Md Adnan Arefeen, Biplob Debnath, Md Yusuf Sarwar Uddin and Srimat T. Chakradhar

7ARS4: Boosting LLM-based Relevance Modeling with Distribution-Aware Robust Learning

Md Adnan Arefeen, Biplob Debnath, Md Yusuf Sarwar Uddin and Srimat T. Chakradhar

Tuesday, 16:00 - 17:30, Session 3

FP13: Search and Retrieval

Room: 100CDE

Time: Tuesday, 16:00 - 17:30

Chair: Sanjay Agrawal

1FP13: Bridge the Gap between Past and Future: Siamese Model Optimization for Context-Aware Document Ranking

Songhao Wu, Quan Tu, Mingjie Zhong, Hong Liu, Jia Xu, Jinjie Gu and Rui Yan

2FP13: Veracity Estimation for Entity-Oriented Search with Knowledge Graphs

Stefano Marchesin, Gianmaria Silvello and Omar Alonso

3FP13: Domain Alignment with Large Vision-language Models for Cross-domain Remote Sensing Image Retrieval

Yan Chen, Guocan Cai, Fufang Li, Yangtao Wang, Xin Tan and Xiaocui Li

4FP13: Image-text Retrieval with Main Semantics Consistency

Yi Xie, Yangtao Wang, Yanzhao Xie, Xin Tan, Jingjing Li, Xiaocui Li, Weilong Peng, Maobin Tang and Meie Fang

5FP13: Practical and Robust Safety Guarantees for Advanced Counterfactual Learning to Rank

Shashank Gupta, Harrie Oosterhuis and Maarten de Rijke

6FP13: To Re-experience theWeb: A Framework for the Transformation and Replay of Archived Web Pages

John Berlin, Mat Kelly, Michael L. Nelson and Michele C. Weigle

FP14: Recommender Systems 1

Room: 110BC

Time: Tuesday, 16:00 - 17:30

Chair: Wei Shi

1FP14: Hyperbolic Contrastive Learning for Cross-Domain Recommendation

Xin Yang, Heng Chang, Zhijian Lai, Jinze Yang, Xingrun Li, Yu Lu, Erxue Min, Shuaiqiang Wang and Dawei Yin

2FP14: CHDAER: Consistent Hashing-based Data Allocation for Efficient Recommendation in Edge Environment

Zhikang Feng, Chao Yan, Rong Jiang, Xiaolong Xu, Xuyun Zhang, Wanchun Dou, Xiaokang Zhou and Lianying Qi

3FP14: HierRec: Scenario-Aware Hierarchical Modeling for Multi-scenario Recommendations

Jingtong Gao, Bo Chen, Menghui Zhu, Xiangyu Zhao, Xiaopeng Li, Yuhao Wang, Yichao Wang, Huifeng Guo and Ruiming Tang

4FP14: AlignRec: Aligning and Training in Multimodal Recommendations

Yifan Liu, Kangning Zhang, Xiangyuan Ren, Yanhua Huang, Jiarui Jin, Yingjie Qin, Ruilong Su, Ruiwen Xu, Yong Yu and Weinan Zhang

5FP14: Quantum Cognition-Inspired EEG-based Recommendation via Graph Neural Networks

Jinkun Han, Wei Li, Yingshu Li and Zhipeng Cai

6FP14: Understanding the Contribution of Recommendation Algorithms on Misinformation Recommendation and Misinformation Dissemination on Social Networks

Royal Pathak, Francesca Spezzano and Maria Soledad Pera

FP15: Medical Domain

Room: 110D

Time: Tuesday, 16:00 - 17:30

Chair: Gianmaria Silvello

1FP15: Natural Language-Assisted Multi-modal Medication Recommendation

Jie Tan, Yu Rong, Kangfei Zhao, Tian Bian, Tingyang Xu, Junzhou Huang, Hong Cheng and Helen Meng

2FP15: CausalMed: Causality-Based Personalized Medication Recommendation Centered on Patient Health State

Xiang Li, Shunpan Liang, Yu Lei, Chen Li, Yulei Hou, Dashun Zheng and Tengfei Ma

3FP15: LAMRec: Label-aware Multi-view Drug Recommendation

Yunsen Tang, Ning Liu, Haitao Yuan, Yonghe Yan, Lei Liu, Weixing Tan and Lizhen Cui

4FP15: Contrastive Learning on Medical Intents for Sequential Prescription Recommendation

Arya Hadizadeh Moghaddam, Mohsen Nayebi Kerdabadi, Mei Liu and Zijun Yao

5FP15: Editing Factual Knowledge and Explanatory Ability of Medical Large Language Models

Derong Xu, Ziheng Zhang, Zhihong Zhu, Zhenxi Lin, Qidong Liu, Xian Wu, Tong Xu, Wanyu Wang, Yuyang Ye, Xiangyu Zhao, Yefeng Zheng and Enhong Chen

6FP15: EMERGE: Enhancing Multimodal Electronic Health Records Predictive Modeling with Retrieval-Augmented Generation

Yinghao Zhu, Changyu Ren, Zixiang Wang, Xiaochen Zheng, Shiyun Xie, Junlan Feng, Xi Zhu, Zhoujun Li, Liantao Ma and Chengwei Pan

FP16: Content Understanding

Room: 120B

Time: Tuesday, 16:00 - 17:30

Chair: Mukul Singh

1FP16: Progressive Multimodal Pivot Learning: Towards Semantic Discordance Understanding as Humans

Junlin Fang, Wenya Wang, Tianze Luo, Yanyong Huang and Fengmao Lv

2FP16: ALDF: An Adaptive Logical Decision Framework for Multimodal Named Entity Recognition

Guohui Ding, Tianhao Jiang, Rui Zhou and Qian Gao

3FP16: M²ConceptBase: A Fine-grained Aligned Concept-Centric Multi-modal Knowledge Base

Zhiwei Zha, Jiaan Wang, Zhixu Li, Xiangru Zhu, Wei Song and Yanghua Xiao

4FP16: MV-BART: Multi-view BART for multi-modal Sarcasm Detection

Xingjie Zhuang, Fengling Zhou and Zhixin Li

5FP16: Not All Negatives are Equally Negative: Soft Contrastive Learning for Unsupervised Sentence Representations

Haojie Zhuang, Wei Emma Zhang, Jian Yang, Weitong Chen and Quan Z. Sheng

6FP16: Design Element Aware Poster Layout Generation

FP17: Stream Data

Room: 120C

Time: Tuesday, 16:00 - 17:30

Chair: Praveen Rao

1FP17: Revisiting Optimal Window Aggregation in Data Streams: The Prefix-Sum Approach

José Martinez and Guillaume Raschia

2FP17: Information Retrieval Optimization for Non-Exemplar Class Incremental Learning

Shuai Guo, Yang Gu, Yuan Ma, Yingwei Zhang, Weining Weng, Jun Liu, Weiwei Dai and Yiqiang Chen

3FP17: FABLE: Approximate Butterfly Counting in Bipartite Graph Stream with Duplicate Edges

Guozhang Sun, Yuhai Zhao and Yuan Li

4FP17: Factor Model-Based Large Covariance Estimation from Streaming Data Using a Knowledge-Based Sketch Matrix

Xiao Tan, Zhaoyang Wang, Hao Qian, Jun Zhou, Peibo Duan, Dian Shen, Meng Wang and Beilun Wang

5FP17: Self-supervised One-Stage Learning for RF-based Multi-Person Pose Estimation

Seunghwan Shin and Yusung Kim

6FP17: SGES: A General and Space-efficient Framework for Graphlet Counting in Graph Streams

Chen Yang, Lailong Luo, Yuliang Lu, Chu Huang, Qianzhen Zhang, Guozheng Yang and Deke Guo

FP18: Social Networks

Room: 130

Time: Tuesday, 16:00 - 17:30

Chair: Yanhui Zhu

1FP18: PolarDSN: An Inductive Approach to Learning the Evolution of Network Polarization in Dynamic Signed Networks

Min-Jeong Kim, Yeon-Chang Lee and Sang-Wook Kim

2FP18: Link Polarity Prediction from Sparse and Noisy Labels via Multiscale Social Balance

Marco Minici, Federico Cinus, Francesco Bonchi and Giuseppe Manco

3FP18: New Localization Frameworks: User-centric Approaches to Source Localization in Real-world Propagation Scenarios

Dongpeng Hou, Yuchen Wang, Chao Gao, Xianghua Li and Zhen Wang

4FP18: The Impact of External Sources on the Friedkin--Johnsen Model

Charlotte Out, Sijing Tu, Stefan Neumann and Ahad N. Zehmakan

5FP18: Covering a Graph with Dense Subgraph Families, via Triangle-Rich Sets

Sabyasachi Basu, Daniel Paul-Pena, Kun Qian, C. Seshadhri, Edward Huang and Karthik Subbian

6FP18: Inferring Information Diffusion Networks without Timestamps

Yuchen Wang, Dongpeng Hou, Chao Gao, Xianghua Li and Zhen Wang

ARS5: Large Language Models 2

Room: 120A

Time: Tuesday, 16:00 - 17:30

Chair: Yubin Kim

1ARS5: Advancing Adversarial SQL Injection Attack Generation with Language Models and Reinforcement Learning

Daniel Leung, Omar Tsai, Kourosh Hashemi, Bardia Tayebi and Mohammad Tayebi

2ARS5: Optimizing Numerical Estimation and Operational Efficiency in the Legal Domain through Large Language Models

Jia-Hong Huang, Chao-Chun Yang, Yixian Shen, Alessio M. Paccas and Evangelos Kanoulas

3ARS5: RealTCD: Temporal Causal Discovery from Interventional Data with Large Language Model

Peiwen Li, Xin Wang, Zeyang Zhang, Yuan Meng, Fang Shen, Yue Li, Jialong Wang, Yang Li and Wenwu Zhu

4ARS5: Leveraging Large Language Models for Improving Keyphrase Generation for Contextual Targeting

Xiao Bai, Xue Wu, Ivan Stojkovic and Kostas Tsioutsoulis

5ARS5: Enhancing E-Commerce Query Rewriting: A Large Language Model Approach with Domain-Specific Pre-Training and Reinforcement Learning

Aijun Dai, Zhu Zhenyu, Haiqing Hu, Guoyu Tang, Lin Liu and Sulong Xu

6ARS5: LLM-based Automated Web Retrieval and Text Classification of Food Sharing Initiatives

Hao Wu, Hyunji Cho, Anna Davies and Gareth Jones

Re1: Privacy, News, and Specialized Applications

Room: 110A

Time: Tuesday, 16:00 - 17:30

Chair: Nasir Eisty

1Re1: Advancing Multivariate Time Series Anomaly Detection: A Comprehensive Benchmark with Real-World Data from Alibaba Cloud

Chaoli Zhang, Yingying Zhang, Lanshu Peng, Qingsong Wen, Yiyuan Yang, Chongjiong Fan, Minqi Jiang, Lunting Fan and Liang Sun

2Re1: pyPANTERA: A Python PAckage for Natural language obfuscaTion Enforcing pRivacy & Anonymization

Francesco Luigi De Faveri, Guglielmo Faggioli and Nicola Ferro

3Re1: EUvsDisinfo: a Dataset for Multilingual Detection of Pro-Kremlin Disinformation in News Articles

João Leite, Olesya Razuvayevskaya, Kalina Bontcheva and Carolina Scarton

4Re1: 3DLNews: A Three-decade Dataset of US Local News Articles

Gangani Ariyaratne and Alexander Nwala

5Re1: InfinityMath: A Scalable Instruction Tuning Dataset in Programmatic Mathematical Reasoning

Bo-Wen Zhang, Yan Yan, Lin Li and Guang Liu

6Re1: Moving Region Representations on the Spread of a Forest Fire

Henrique Macias da Silva, Tiago F. R. Ribeiro, Rogério Luís de C. Costa and José Moreira

7Re1: A Generative Benchmark Creation Framework for Detecting Common Data Table Versions

Daniel C. Fox, Aamod Khatiwada and Roei Shraga

Tuesday, 17:30-19:30, Poster and Demo Session

Short Papers (Posters)

Room: 100AB

Time: Tuesday, 17:30 - 19:30

Chair: Nasir Eisty

SP1: Flexi-clique: Exploring Flexible and Sub-linear Clique Structures

Song Kim, Junghoon Kim, Susik Yoon and Jungeun Kim

SP2: Multi-Stage Refined Visual Captioning for Baidu Ad Creatives Generation

Yi Yang, Xinyu Zhao, Kang Zhao, Zhipeng Jin, Wen Tao, Lin Liu and Shuanglong Li

SP3: How to Leverage Personal Textual Knowledge for Personalized Conversational Information Retrieval

Fengran Mo, Longxiang Zhao, Kaiyu Huang, Yue Dong, Degen Huang and Jian-Yun Nie

SP4: CNN to GNN: Unsupervised Multi-level Knowledge Learning

Jiao Ziheng, Hongyuan Zhang and Xuelong Li

SP5: LayerPlexRank: Exploring Node Centrality and Layer Influence through Algebraic Connectivity in Multiplex Networks

Hao Ren and Jiaojiao Jiang

SP6: Distilling Knowledge based on Curriculum Learning for Temporal Knowledge Graph Embeddings

Bin Zhang, Jiayin Li and Yuanfei Dai

SP7: A Systematic Evaluation of Generated Time Series and Their Effects in Self-Supervised Pretraining

Audrey Der, Chin-Chia Michael Yeh, Xin Dai, Huiyuan Chen, Yan Zheng, Yujie Fan, Zhongfang Zhuang, Vivian Lai, Junpeng Wang, Liang Wang, Wei Zhang and Eamonn Keogh

SP8: VIER: Visual Imagination Enhanced Retrieval in Sponsored Search

Yadong Zhang, Yuqing Song, Siyu Lu, Qiang Liu and Xingxing Wang

SP9: GraphVAE: Unveiling Dynamic Stock Relationships with Variational Autoencoder-based Factor Modeling

Yulong Jia, Guanxing Li, Ganlong Zhao, Xiangru Lin and Guanbin Li

SP10: DP-FedFace: Privacy-Preserving Facial Recognition in Real Federated Scenarios

Wang Wenjing and Li Si

SP11: Over-penalization for Extra Information in Neural IR Models

Kota Usuha, Makoto P. Kato and Sumio Fujita

SP12: SparseBF: Enhancing Scalability and Efficiency for Sparsely Filled Privacy-Preserving Record Linkage

Han Xu, Yuhong Shao, Kareem Benaissa and Yutong Li

SP13: Retrogressive Document Manipulation of US Federal Environmental Websites

Lesley Frew, Michael L. Nelson and Michele C. Weigle

SP14: Error Detection and Constraint Recovery in Hierarchical Multi-Label Classification without Prior Knowledge

Joshua Shay Kricheli, Khoa Vo, Aniruddha Datta, Spencer Ozgur and Paulo Shakarian

SP15: Learn From Mistakes: Guidance on Zero-shot Conversational Text-to-SQL

Wenshuo Zhai, Xiang Zhao, Ziyang Chen and Jinzhi Liao

SP16: Deep Noise-Aware Quality Loss for Speaker Verification

Pantid Chantangphol, Theerat Sakdejayont, Monchai Lertsutthiwong and Tawunrat Chalothorn

SP17: Fractional Budget Allocation for Influence Maximization under General Marketing Strategies

Akhil Bhimaraju, Eliot W. Robson, Lav R. Varshney and Abhishek K. Umrawal

SP18: You Can't Ignore Either: Unifying Structure and Feature Denoising for Robust Graph Learning

Tianmeng Yang, Jiahao Meng, Min Zhou, Yaming Yang, Yujing Wang, Xiangtai Li and Yunhai Tong

SP19: Learning the Dynamics in Sequential Recommendation by Exploiting Real-time Information

Rujiao Zhang, Hao Zhang, Yucong Luo, Zhiding Liu, Mingyue Cheng, Qi Liu and Enhong Chen

SP20: Do We Really Need to Drop Items with Missing Modalities in Multimodal Recommendation?

Daniele Malitesta, Emanuele Rossi, Claudio Pomo, Tommaso Di Noia and Fragkiskos Malliaros

SP21: Spatio-Temporal Sequence Modeling for Traffic Signal Control

Qian Sun, Le Zhang, Jingbo Zhou, Rui Zha, Yu Mei, Chujie Tian and Hui Xiong

SP22: ILTS: Inducing Intention Propagation in Decentralized Multi-Agent Tasks with Large Language Models

Xihe Qiu, Haoyu Wang, Xiaoyu Tan and Chao Qu

SP23: The Elusiveness of Detecting Political Bias in Language Models

Riccardo Lunardi, David La Barbera and Kevin Roitero

SP24: Scalable and Adaptive Spectral Embedding for Attributed Graph Clustering

Yunhui Liu, Tieke He, Qing Wu, Tao Zheng and Jianhua Zhao

SP25: An Explainable Multi-atlas Fusion Model based on Spatial Overlap for ASD Diagnosis

Yuefeng Ma, Xiaochen Mu and Tengfei Zhang

SP26: Generative AI for Energy: Multi-Horizon Power Consumption Forecasting using Large Language Models

Kevin Roitero, Gianluca D'Abrasca, Andrea Zancola, Vincenzo Della Mea and Stefano Mizzaro

SP27: PP4RNR: Popularity- and Position-Aware Contrastive Learning for Retrieval-Driven News Recommendation

Wenwei Chen and Yewang Chen

SP28: SurvReLU: Inherently Interpretable Survival Analysis via Deep ReLU Networks

Xiaotong Sun, Peijie Qiu and Shengfan Zhang

SP29: STAR: Sparse Text Approach for Recommendation

Anna Tigunova, Ghazaleh Haratinezhad Torbati, Gerhard Weikum and Andrew Yates

SP30: Does Knowledge Localization Hold True? Surprising Differences Between Entity and Relation Perspectives in Language Models

Yifan Wei, Xiaoyan Yu, Yixuan Weng, Huanhuan Ma, Yuanzhe Zhang, Jun Zhao and Kang Liu

SP31: Enhancing Content-based Recommendation via Large Language Model

Wentao Xu, Qianqian Xie, Shuo Yang, Jiangxia Cao and Shuchao Pang

SP32: Coresets for Deletion-Robust k-Center Clustering

Rui Li, Yanhao Wang and Michael Mathioudakis

SP33: Enhancing CTR prediction through Sequential Recommendation Pre-training: Introducing the SRP4CTR framework

Ruidong Han, Qianzhong Li, Jiang He, Rui Li, Yurou Zhao, Xiang Li and Wei Lin

SP34: Improved Estimation of Ranks for Learning Item Recommenders with Negative Sampling

Anushya Subbiah, Steffen Rendle and Vikram Aggarwal

SP35: Quantifying uncertainty in Neural Networks through residuals

Udbhav Mallanna Dalavai, Rini Smita Thakur, Rajeev Ranjan Dwivedi and Vinod Kumar Kurmi

SP36: EDGE: Evaluation Framework for Logical vs. Subgraph Explanations for Node Classifiers on Knowledge Graphs

Rupesh Sapkota, Köhler Dominik and Heindorf Stefan

SP37: CXSimulator: A User Behavior Simulation using LLM Embeddings for Web-Marketing Campaign Assessment

Akira Kasuga and Ryo Yonetani

SP38: Post-Training Embedding Enhancement for Long-Tail Recommendation

Geon Lee, Kyungho Kim and Kijung Shin

SP39: Early Exit Strategies for Approximate kNN Search in Dense Retrieval

Francesco Busolin, Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego and Salvatore Trani

SP40: Document-Level Relation Extraction Based on Heterogeneous Graph Reasoning

Dong Li, Miao Li, Zhilei Lei, Baoyan Song and Xiaohuan Shan

SP41: In Situ Answer Sentence Selection at Web-scale

Zeyu Zhang, Thuy Vu and Alessandro Moschitti

SP42: Nonparametric estimation of non-smooth divergences

Mina Mahbub Hossain, Alan Wisler and Kevin Moon

SP43: Scalable Unsupervised Feature Selection with Reconstruction Error Guarantees via QMR Decomposition

Ciwan Ceylan, Kambiz Ghoochian and Danica Kragic

SP44: Osprey : A Reference Framework for Online Grooming Detection via Neural Models and Conversation Features

Hamed Waezi, Reza Barzegartorghabeh and Hossein Fani

SP45: Meta-Prompt Tuning Vision-Language Model for Multi-Label Few-Shot Image Recognition

Feng Zhang, Wei Chen, Fei Ding, Tengjiao Wang, Dawei Lu and Jiabin Zheng

SP46: CrossPred: A Cross-City Mobility Prediction Framework for Long-Distance Travelers via POI Feature Matching

Shuai Xu and Donghai Guan

SP47: Boosting Large Language Models with Socratic Method for Conversational Mathematics Teaching

Yuyang Ding, Hanglei Hu, Jie Zhou, Qin Chen, Bo Jiang and Liang He

SP48: Prioritized Binary Transformation Method for Efficient Multi-label Classification of Data Streams with Many Labels

Onur Yildirim, Sepehr Bakhshi and Fazli Can

SP49: The Effect of Icon Semantic Distance on Preschool Children's Information Search: Evidence from an Eye-Tracking Study

Jiaqi Yang and Pianran Wang

SP50: General Time Transformer: an Encoder-only Foundation Model for Zero-Shot Multivariate Time Series Forecasting

Cheng Feng, Long Huang and Denis Krompass

SP51: Span Confusion is All You Need for Chinese Spelling Correction

Dezhi Ye, Haomei Jia, Bowen Tian, Jie Liu, Haijin Liang, Jin Ma and Wenmin Wang

SP52: Revealing the Power of Masked Autoencoders in Traffic Forecasting

Jiarui Sun, Yujie Fan, Chin-Chia Michael Yeh, Wei Zhang and Girish Chowdhary

SP53: Forecasting Live Chat Intent from Browsing History

Se-eun Yoon, Ahmad Bin Rabiah, Zaid Alibadi, Surya Kallumadi and Julian Mcauley

SP54: Contrastive Disentangled Representation Learning for Debiasing Recommendation with Uniform Data

Xinxin Yang, Zhen Liu, Xiaoman Lu, Yafan Yuan, Sibao Lu and Yibo Gao

SP55: H2D: Hierarchical Heterogeneous Graph Learning Framework for Drug-Drug Interaction Prediction

Ran Zhang, Xuezhi Wang, Sheng Wang, Kunpeng Liu, Yuanchun Zhou and Pengfei Wang

SP56: Accurate Embedding-based Log Determinant Optimization

Daye Eun and Byungkun Kang

SP57: GaQR: An Efficient Generation-augmented Question Rewriter

Oliver Young, Yixing Fan, Ruqing Zhang, Jiafeng Guo, Maarten de Rijke and Xueqi Cheng

SP58: BART-based Hierarchical Attentional Network for Sentence Ordering

Yiping Yang, Baiyun Cui and Yingming Li

SP59: Efficient Global Message Passing for Heterophilous Graphs

Yanfei Dong, Mohammed Haroon Dupty, Lambert Deng, Yong Liang Goh and Wee Sun Lee

SP60: MPHDetect: Multi-View Prompting and Hypergraph Fusion for Malevolence Detection in Dialogues

Bo Xu, Xuening Qiao, Hongfei Lin and Linlin Zong

SP61: P-Rank+: A Scalable Efficient P-Rank Search Algorithm

Maoyin Zhang and Weiren Yu

SP62: Channel-Aware Low-Rank Adaptation in Time Series Forecasting

Tong Nie, Yuewen Mei, Guoyang Qin, Jian Sun and Wei Ma

SP63: Compressed models are NOT miniature versions of large models

Rohit Raj Rai, Rishant Pal and Amit Awekar

SP64: Dual-level Intents Modeling for Knowledge-aware Recommendation

Jin Zeng, Nan Wang and Jinbao Li

SP65: Towards Better Utilization of Multiple Views for Bundle Recommendation

Kyungho Kim, Sunwoo Kim, Geon Lee and Kijung Shin

SP66: Exploring High-Order User Preference with Knowledge Graph for Recommendation

Caijun Xu, Fuwei Zhang, Zhao Zhang, Fuzhen Zhuang and Rui Liu

SP67: Improving Prompt-based News Recommendation with Individual Template and Customized Answer

Yijiang Li and Jun Wu

SP68: Improving German News Clustering with Contrastive Learning

Piriyakorn Piriyatamwong, Saikishore Kalloori and Fabio Zünd

SP69: Learning Prompt-Level Quality Variance for Cost-Effective Text-to-Image Generation

Dongkeun Lee and Wonjun Lee

SP70: Preliminary Study on Incremental Learning for Large Language Model-based Recommender Systems

Tianhao Shi, Yang Zhang, Zhijian Xu, Chong Chen, Fuli Feng, Xiangnan He and Qi Tian

SP71: IEcons: A New Consensus Approach Using Multi-Text Representations for Clustering Task

Karima Boutalbi, Rafika Boutalbi, Hervé Verjus, Kavé Salamatian, David Telisson and Olivier Le Van

SP72: GeoReasoner: Reasoning On Geospatially Grounded Context For Natural Language Understanding

Yibo Yan and Joey Lee

SP73: A Contextual Combinatorial Semi-Bandit Approach to Network Bottleneck Identification

Fazeleh Hoseini, Niklas Åkerblom and Morteza Haghir Chehrehani

SP74: Learning Links for Adaptable and Explainable Retrieval

Jianqiang Shen, Yuchin Juan, Ping Liu, Wen Pu, Liangjie Hong and Wenjing Zhang

SP75: Long-Term Hydrologic Time Series Prediction with LSPM

Sicheng Zhou and David Anastasiu

SP76: Learning Counterfactual Explanations with Intervals for Time-series Classification

Akihiro Yamaguchi, Ken Ueno, Ryusei Shingaki and Hisashi Kashima

SP77: CMG: A Causality-enhanced Multi-view Graph Model for Stock Trend Prediction

Xi Cheng, Liang Wang, Yunan Zeng and Qiang Liu

SP78: A Structural Information Guided Hierarchical Reconstruction for Graph Anomaly Detection

Dongcheng Zou, Hao Peng and Chunyang Liu

SP79: CAG: A Consistency-Adaptive Text-Image Alignment Generation for Joint Multimodal Entity-Relation Extraction

Xinjie Yang, Xiaocheng Gong, Binghao Tang, Yang Lei, Huan Ouyang, Gang Zhao, Lei Luo, Yayue Deng, Yunling Feng, Bin Duan, Yajing Xu and Si Li

SP80: HypMix: Hyperbolic Representation Learning for Graphs with Mixed Hierarchical and Non-hierarchical Structures

Eric Lee, Bo Xiong, Carl Yang and Joyce Ho

SP81: Extended Japanese Commonsense Morality Dataset with Masked Token and Label Enhancement

Takumi Ohashi, Tsubasa Nakagawa and Hitoshi Iyatomi

SP82: Enhancing Event Detection with Inter-Event Dependencies in Large Ontologies

Samireh Abdi

SP83: A Mixture of Experts in Forecasting Student Performance in Classroom Programming Activities

Moqsadur Rahman, Monika Akbar, Justice Walker and M. Shahriar Hossain

SP84: Exploiting Preferences in Loss Functions for Sequential Recommendation via Weak Transitivity

Hyunsoo Chung, Jungtaek Kim, Hyungeun Jo and Hyungwon Choi

SP85: MARS: Matching Attribute-aware Representations for Text-based Sequential Recommendation

Hyunsoo Kim, Junyoung Kim, Minjin Choi, Sunkyung Lee and Jongwuk Lee

SP86: Ocean Significant Wave Height Estimation with Spatio-temporally Aware Large Language Models

Li Zhe, Xu Ronghui, Hu Jilin, Peng Zhong, Lu Xi, Guo Chenjuan and Yang Bin

SP87: Multi-DSI: Non-deterministic Identifier and Concept Alignment for Differentiable Search Index

Yu-Ze Liu, Jyun-Yu Jiang and Pu-Jen Cheng

SP88: The Factuality of Large Language Models in the Legal Domain

Rajaa El Hamdani, Thomas Bonald, Fragkiskos Malliaros, Nils Holzenberger and Fabian Suchanek

SP89: Momentum Contrastive Bidirectional Encoding with Self-Distillation for Sequential Recommendation

Dingyi Zhang, Haoyu Wenren, Yue Wang and Yingming Li

SP90: Knowledge-enhanced Dynamic Modeling framework for Multi-Behavior Recommendation

Xiujuan Li, Nan Wang, Jin Zeng, Yingli Zhong and Zhonghui Shen

SP91: SOUP: A Unified Shopping Query Suggestion Framework to Optimize Language Model with User Preference

Xu Meng, Zhaohui Luo, Xinxin Wang, Wen Jiang, Wei Ning and Shuhan Qi

SP92: ToxVI: a Multimodal LLM-based Framework for Generating Intervention in Toxic Code-Mixed Videos

Krishanu Maity, A.S. Poornash, Sriparna Saha and Kitsuchart Pasupa

SP93: Beyond Language Bias: Overcoming Multimodal Shortcut and Distribution Biases for Robust Visual Question Answering

Jingliang Gu and Zhixin Li

SP94: Hol-Light: A Holistic framework for Efficient and Dynamic Traffic Signal Management

Siyao Qiao and Jia Wu

SP95: Tabularis Revilio: Converting Text to Tables

Mukul Singh, Gust Verbruggen, Vu Le and Sumit Gulwani

SP96: Empowering Traffic Speed Prediction with Auxiliary Feature-Aided Dependency Learning

Dong-hyuk Seo, Jiwon Son, Namhyuk Kim, Won-Yong Shin and Sang-Wook Kim

SP97: Harnessing Empathy and Ethics for Relevance Detection and Information Categorization in Climate and COVID-19 Tweets

Apoorva Upadhyaya, Wolfgang Nejdl and Marco Fisichella

SP98: Pairing Clustered Inverted Indexes with k-NN Graphs for Fast Approximate Retrieval over Learned Sparse Representations

Sebastian Bruch, Franco Maria Nardini, Cosimo Rulli and Rossano Venturini

SP99: Enhanced Retrieval Effectiveness through Selective Query Generation

Mohammad Hosseini, Negar Arabzadeh, Morteza Zihayat and Ebrahim Bagheri

SP100: Enhancing SPARQL Generation by Triplet-order-sensitive Pre-training

Chang Su, Jiexing Qi, He Yan, Kai Zou and Zhouhan Lin

SP101: Evolving to the Future: Unseen Event Adaptive Fake News Detection on Social Media

Jiajun Zhang, Zhixun Li, Qiang Liu, Shu Wu, Zilei Wang and Liang Wang

SP102: XRDmamba: Large-scale Crystal Material Space Group Identification with Selective State Space Model

Liheng Yu, Pengkun Wang, Zhe Zhao, Zhongchao Yi, Sun Nan, Di Wu and Yang Wang

SP103: Empowering LLMs for Multi-Page Layout Generation via Consistency-Oriented In-Context Learning

Mengyao Chen, Xinghua Zhang, Junhao Zhang, Quangang Li and Tingwen Liu

SP104: FashionLOGO: Prompting Multimodal Large Language Models for Fashion Logo Embeddings

Yulin Su, Da Li, Zhen Wang, Min Yang, Minghui Qiu and Walton Wang

SP105: ExPrompt: Augmenting Prompts Using Examples as Modern Baseline for Stance Classification

Umair Qudus, Michael Röder, Daniel Vollmers and Axel-Cyrille Ngonga Ngomo

SP106: RecPrompt: A Self-tuning Prompting Framework for News Recommendation Using Large Language Models

Dairui Liu, Boming Yang, Honghui Du, Derek Greene, Neil Hurley, Aonghus Lawlor, Ruihai Dong and Irene Li

SP107: QuestGen: Effectiveness of Question Generation Methods for Fact-Checking Applications

Ritvik Setty and Vinay Setty

SP108: Multi-view Temporal Knowledge Graph Reasoning

Fuwei Zhang, Zhao Zhang, Fuzhen Zhuang, Zhiqiang Zhang, Jun Zhou and Deqing Wang

SP109: ChefFusion: Multimodal Foundation Model Integrating Recipe and Food Image Generation

Peiyu Li, Xiaobao Huang, Yijun Tian and Nitesh Chawla

SP110: MODRL-TA: A Multi-Objective Deep Reinforcement Learning Framework for Optimizing Traffic Allocation in E-Commerce Search

Peng Cheng, Huimu Wang, Jinyuan Zhao, Yihao Wang, Enqiang Xu, Yu Zhao, Zhuojian Xiao, Songlin Wang, Guoyu Tang, Lin Liu and Sulong Xu

SP111: M2IoU: A min-max distance-based Loss Function for Bounding Box Regression in Medical Imaging

Kalash Shah, Anurag Kumar Shandilya, Bhavik Kanekar, Akshat Gautam, Pavni Tandon, Ganesh Ramakrishnan and Kshitij Jadhav

SP112: LEX-GNN: Label-Exploring Graph Neural Network for Accurate Fraud Detection

Woochang Hyun, Insoo Lee and Bongwon Suh

SP113: Quantum Inverse Contextual Vision Transformers (Q-ICVT): A New Frontier in 3D Object Detection for AVs

Sanjay Bhargav Dharavath, Tanmoy Dam, Supriyo Chakraborty, Prithwiraj Roy and Aniruddha Maiti

SP114: Faceted Disparate Impact: A Legal-Consistent Bias Evaluation in Machine Learning

Jarren Briscoe and Assefaw Gebremedhin

SP115: End-to-End Aspect Based Sentiment Analysis Using Graph Attention Network

Abir Chakraborty

SP116: COSCO: A Sharpness-Aware Training Framework for Few-shot Multivariate Time Series Classification

Jesus Barreda, Ashley Gomez, Ruben Puga, Kaixiong Zhou and Li Zhang

SP117: Scalable Expressiveness through Preprocessed Graph Perturbations

Danial Saber and Amirali Salehi-Abari

SP118: Enhanced Privacy Bound for Shuffle Model with Personalized Privacy

Yixuan Liu, Yuhan Liu, Li Xiong, Yujie Gu and Hong Chen

SP119: MSG-Chart: Multimodal Scene Graph for ChartQA

Yue Dai, Caren Han and Wei Liu

SP120: Effective Clean-Label Backdoor Attacks on Graph Neural Networks

Xuanhao Fan and Enyan Dai

SP121: Professionalism-Aware Pre-Finetuning for Profitability Ranking

Chung-Chi Chen, Hiroya Takamura, Ichiro Kobayashi and Yusuke Miyao

SP122: Automation of Text-Based Economic Indicator Construction: A Pilot Exploration on Economic Policy Uncertainty Index

Hsiu-Hsuan Yeh, Yu-Lieh Huang, Ziho Park and Chung-Chi Chen

SP123: Intricate Object Detection in Self Driving Environments with Edge-Adaptive Depth Estimation(EADE)

Subi Kim, Jieun Kang and Yongik Yoon

SP124: Distributed Boosting: An Enhancing Method on Dataset Distillation

Xuechao Chen, Wenchao Meng, Peiran Wang and Qihang Zhou

SP125: Accurate Path Prediction of Provenance Traces

Raza Ahmad, Hee Young Jung, Yuta Nakamura and Tanu Malik

SP126: Bubble Sketch: A High-performance and Memory-efficient Sketch for Finding Top-k Items in Data Streams

Lu Cao, Qilong Shi, Yuxi Liu, Hanyue Zheng, Yao Xin, Wenjun Li, Tong Yang, Yangyang Wang, Yang Xu, Weizhe Zhang and Mingwei Xu

SP127: Generating Cross-model Analytics Workloads Using LLMs

Xiwen Zheng, Arun Kumar and Amarnath Gupta

SP128: Effective Job-market Mobility Prediction with Attentive Heterogeneous Knowledge Learning and Synergy

Sida Lin, Zhouyi Zhang, Yankai Chen, Chenhao Ma, Yixiang Fang, Shan Dai and Guangli Lu

SP129: Robust Heterophily Graph Learning via Uniformity Augmentation

Xusheng Yang, Zhengyu Chen and Yuexian Zou

SP130: Covariate Ordered Systematic Sampling as an Improvement to Randomized Controlled Trials

Deddy Jobson, Yilin Li, Naoki Nishimura, Jie Yang, Koya Ohashi and Takeshi Matusmoto

SP131: Ask or Recommend: An Empirical Study on Conversational Product Search

Heli Ma, Jie Zou, Mohammad Aliannejadi, Evangelos Kanoulas, Yi Bin and Yang Yang

SP132: Application of Large Language Models in Chemistry Reaction Data Extraction and Cleaning

Xiaobao Huang, Mihir Surve, Yuhan Liu, Tengfei Luo, Olaf Wiest, Xiangliang Zhang and Nitesh Chawla

SP133: Beyond Aggregation: Efficient Federated Model Consolidation with Heterogeneity-Adaptive Weights Diffusion

Jiaqi Li, Xiaoyang Qu, Wenbo Ding, Zihao Zhao and Jianzong Wang

SP134: Enhancing Temporal and Geographical Named Entity Recognition in Chinese Ancient Texts with External Time-series Knowledge Bases

Xiaotong Wang, Xuanning Liu, Shuai Zhong, Xinming Chen and Bin Wu

SP135: RECE: Reduced Cross-Entropy Loss for Large-Catalogue Sequential Recommenders

Gleb Mezentsev, Danil Gusak, Ivan Oseledets and Evgeny Frolov

SP136: Attentional Neural Integral Equation for Temporal Knowledge Graph Forecasting

Xiao Likang, Zijie Chen, Richong Zhang and Junfan Chen

SP137: Mamba Retriever: Utilizing Mamba for Effective and Efficient Dense Retrieval

Hanqi Zhang, Chong Chen, Lang Mei, Qi Liu and Jiaxin Mao

SP138: MEDFuse: Multimodal EHR Data Fusion with Masked Lab-Test Modeling and Large Language Models

Nguyen Minh Thao Phan, Cong-Tinh Dao, Chenwei Wu, Jian-Zhe Wang, Shun Liu, Jun-En Ding, David Restrepo, Feng Liu, Fang-Ming Hung and Wen-Chih Peng

SP139: Progressive Label Disambiguation for Partial Label Learning in Homogeneous Graphs

Rajat Patel, Aakarsh Malhotra, Sudipta Modak and Siddharth Yeramsetty

SP140: Multi-Scale Contrastive Attention Representation Learning for Encrypted Traffic Classification

Shuo Yang, Xinran Zheng, Jinze Li, Jinfeng Xu and Edith Ngai

Demos

Room: 100AB

Time: Tuesday, 17:30 - 19:30

Chair: Francesco Gullo

DE01: DirDense: A Tool for Mining Dense Subgraphs from a Big Directed Graph

Jalal Khalil, Ahmad Akhlaque, Da Yan, Lyuheng Yuan, Saugat Adhikari, Yang Zhou and Zhe Jiang

DE02: Demonstrating PARS: A Decision Support System for Developing Vertical Partitioning Plans

Pengju Liu, Cuiping Li, Kai Zhong and Hong Chen

DE03: FairRankTune: A Python Toolkit for Fair Ranking Tasks

Kathleen Cachel and Elke Rundensteiner

DE04: A One-Health Platform for Antimicrobial Resistance Data Analytics

Benoit Lange, Florent Massegli and Reza Akbarinia

DE05: XplainScreen: Unveiling the Black Box of Graph Neural Network Drug Screening Models with a Unified XAI Framework

Geonhee Ahn, Md Mahim Anjum Haqueview, Subhashis Hazarika and Soo Kyung Kim

DE06: Empowering Shoppers with Event-focused Search

Austin Ward and Omar Alonso

DE07: Shaded Route Planning Using Active Segmentation and Identification of Satellite Images

Longchao Da, Rohan Chhibba, Rushabh Jaiswal, Ariane Middel and Hua Wei

DE08: GongBu: Easily Fine-tuning LLMs for Domain-specific Adaptation

Bolin Zhang, Yimin Tian, Shengwei Wang, Zhiying Tu, Dianhui Chu and Zhiqi Shen

DE09: Unified Argument Retrieval System from German News Articles Using Large Language Models

Saikishore Kalloori, Piriya Korn Piriya Tamwong and Fabio Zünd

DE10: EDGE: A Conversational Interface driven by Large Language Models for Educational Knowledge Graphs Exploration

Neda Afreen, Giacomo Balloccu, Ludovico Boratto, Gianni Fenu, Francesca Maridina Mallocci, Mirko Marras and Andrea Giovanni Martis

DE11: CourtsightTV: An Interactive Visualization Software for Labeling Key Basketball Moments

Alexander Russakoff, Kenny Miller, Vahid Mahzoon, Parsa Esmaeilkhani, Christine Cho, Jaffar Alzeidi, Sandro Hauri and Slobodan Vucetic

DE12: DiaKoP: Dialogue-based Knowledge-oriented Programming for Neural-symbolic Knowledge Base Question Answering

Zhicheng Lee, Zhidian Huang, Zijun Yao, Jinxin Liu, Amy Xin, Lei Hou and Juanzi Li

DE13: A Skill Proficiency Framework for Workforce Learning and Development

Rebecca Dew, Mingzhao Li and Sandya Baratha Raj

DE14: EHR-Based Mobile and Web Platform for Chronic Disease Risk Prediction Using Large Language Multimodal Models

Chun-Chieh Liao, Wei-Ting Kuo, I-Hsuan Hu, Yen-Chen Shih, Jun-En Ding, Feng Liu and Fang-Ming Hung

DE15: GARF: A Self-supervised Data Cleaning System with SeqGAN

Jinfeng Peng, Hanghai Cui, Derong Shen, Yue Kou, Tiezheng Nie and Tianlong Guo

DE16: OpenTOS: Open-source System for Transfer Learning Bayesian Optimization

Peili Mao and Ke Li

DE17: Music2P: A Multi-Modal AI-Driven Tool for Simplifying Album Cover Design

Joong Ho Choi, Geonyeong Choi, Ji Eun Han, Wonjin Yang and Zhi-Qi Cheng

DE18: myCADI: my Contextual Anomaly Detection using Isolation

Véronne Yepmo and Grégory Smits

DE19: AuditLLM: A Tool for Auditing Large Language Models Using Multiprobe Approach

Maryam Amirizani, Elias Martin, Tanya Roosta, Aman Chadha and Chirag Shah

DE20: A Scalable Tool for Democratizing Variant Calling on Human Genomes Using Commodity Clusters

Khawar Shehzad, Ajay Kumar, Matthew Schutz, Chase Webb, Polycarp Nalela, Manas Das and Praveen Rao

DE21: FactCheckBureau: Build your own fact-check analysis pipeline

Oana Balalau, Pablo Bertaud-Velten, Younes El Fraihi, Garima Gaur, Oana Goga, Samuel Guimarães, Ioana Manolescu and Brahim Saadi

DE22: DeliLaw: A Chinese Legal Counselling System Based on a Large Language Model

Nan Xie, Yuelin Bai, Min Yang, Shiwen Ni, Hengyuan Gao, Feiteng Fang, Qixuan Zhao, Zhijian Li, Ziqiang Xue and Liang Zhu

DE23: Introducing CausalBench: A Flexible Benchmark Framework for Causal Analysis and Machine Learning

Ahmet Kapkiç, Pratanu Mandal, Shu Wan, Paras Sheth, Abhinav Gorantla, Yoonhyuk Choi, K. Selçuk Candan and Huan Liu

DE24: Mastodoner: A command-line Tool and Python library for Public Data Collection from Mastodon

Haris Bin Zia, Ignacio Castro and Gareth Tyson

DE25: Demonstration of a Multi-agent Framework for Text to SQL Applications with Large Language Models

Chen Shen, Jin Wang, Sajjadur Rahman and Eser Kandogan

DE26: Preserving Old Memories in Vivid Detail: Human-Interactive Photo Restoration Framework

Seung-Yeon Back, Geonho Son, Dahye Jeong, Eunil Park and Simon Woo

DE27: RevEx: An Online Consumer Reviews Extraction Tool

Julián Alarte, Carlos Galindo, Carlos Martín and Josep Silva

DE28: Multi-Graph Explorer: A framework for Advanced Multi-Graph Analysis and Method Development

Yorgos Tsitsikas and Evangelos Papalexakis

DE29: DetCat: Detecting Categorical Outliers in Relational Datasets

Arthur Zylinski and Abdulhakim A. Qahtan

DE30: Human-in-the-Loop Feature Discovery for Tabular Data

Andra Ionescu, Zeger Mouw, Efthimia Aivaloglou, Rihan Hai and Asterios Katsifodimos

DE31: LLM-PQA: LLM-enhanced Prediction Query Answering

Ziyu Li, Wenjie Zhao, Asterios Katsifodimos and Rihan Hai

DE32: STaR: Space and Time-aware Statistic Query Answering

Oana Balalau, Simon Ebel, Théo Galizzi, Ioana Manolescu and Helena Galhardas

DE33: LINKin-PARK: Land Valuation Information and Knowledge in Predictive Analysis and Reporting Kit via Dual Attention-DCCNN

Teng-Yuan Tsou, Shih-Yu Lai, Hsuan-Ching Chen, Jung-Tsang Yeh, Pei-Xuan Li, Tzu-Chang Lee and Hsun-Ping Hsieh

Wednesday, 09:00 - 10:30, Keynote: Suzan Verberne

Room: 100CDE

Time: Wednesday, 09:00 - 10:30

Chair: Maria Soledad Pera

Is the Search Engine of the Future a Chatbot?

Wednesday, 11:00 - 12:45, Session 1

FP19: Fairness

Room: 100CDE

Time: Wednesday, 11:00 - 12:45

Chair: Yuya Sasaki

1FP19: Discrepancy-guided Channel Dropout for Domain Generalization

Seonggyeom Kim, Byeongtae Park, Harim Lee and Dong-Kyu Chae

2FP19: TEXT CAN BE FAIR: Mitigating Popularity Bias with PLMs by Learning Relative Preference

Zuoli Tang, Zhaoxin Huan, Zihao Li, Shirui Hu, Xiaolu Zhang, Jun Zhou, Lixin Zou and Chenliang Li

3FP19: Guaranteeing Accuracy and Fairness under Fluctuating User Traffic: A Bankruptcy-Inspired Re-ranking Approach

Xiaopeng Ye, Chen Xu, Jun Xu, Xuyang Xie, Gang Wang and Zhenhua Dong

4FP19: Wise Fusion: Group Fairness Enhanced Rank Fusion

Kathleen Cachel and Elke Rundensteiner

5FP19: On the Sensitivity of Individual Fairness: Measures and Robust Algorithms

Xinyu He, Jian Kang, Ruizhong Qiu, Fei Wang, Jose Sepulveda and Hanghang Tong

6FP19: Mitigating Exposure Bias in Online Learning to Rank Recommendation: A Novel Reward Model for Cascading Bandits

Masoud Mansoury, Bamshad Mobasher and Herke Van Hoof

7FP19: Integrating Fair Representation Learning with Fairness Regularization for Intersectional Group Fairness

David Dzakpasu, Jixue Liu, Jiuyong Li and Lin Liu

FP20: Detection

Room: 110A
Time: Wednesday, 11:00 - 12:45
Chair: Ziyu LI

1FP20: SGOOD: Substructure-enhanced Graph-Level Out-of-Distribution Detection

Zhihao Ding, Jieming Shi, Shiqi Shen, Xuequn Shang, Jiannong Cao, Zhipeng Wang and Zhi Gong

2FP20: CKNN: Cleansed k-Nearest Neighbor for Unsupervised Video Anomaly Detection

Jihun Yi and Sungroh Yoon

3FP20: Multi-Modal Sarcasm Detection via Graph Convolutional Network and Dynamic Network

Jiaqi Hao, Junfeng Zhao and Zhigang Wang

4FP20: TrafCL: Robust Encrypted Malicious Traffic Detection via Contrastive Learning

Xiaodu Yang, Sijie Ruan, Jinyu Li, Yinliang Yue and Bo Sun

5FP20: DAME: Personalized Federated Social Event Detection with Dual Aggregation Mechanism

Xiaoyan Yu, Yifan Wei, Pu Li, Shuaishuai Zhou, Hao Peng, Li Sun, Liehuang Zhu and Philip S. Yu

6FP20: Dynamic Neural Control Flow Execution: An Agent-Based Deep Equilibrium Approach for Binary Vulnerability Detection

Li Tao Li, Steven H. H. Ding, Andrew Walenstein, Philippe Charland and Benjamin C. M. Fung

7FP20: Adaptive Differentially Private Structural Entropy Minimization for Unsupervised Social Event Detection

Zhiwei Yang, Yuecen Wei, Haoran Li, Qian Li, Lei Jiang, Li Sun, Xiaoyan Yu, Chunming Hu and Hao Peng

FP21: Natural Language Processing

Room: 110BC
Time: Wednesday, 11:00 - 12:45
Chair: Hyun-Je Song

5FP21: Table-Filling via Mean Teacher for Cross-domain Aspect Sentiment Triplet Extraction

Kun Peng, Lei Jiang, Qian Li, Haoran Li, Xiaoyan Yu, Li Sun, Shuo Sun, Yanxian Bi and Hao Peng

1FP21: No Query Left Behind: Query Refinement via Backtranslation

Delaram Rajaei, Zahra Taheri and Hossein Fani

2FP21: Structural Representation Learning and Disentanglement for Evidential Chinese Patent Approval Prediction

Jinzhi Shan, Qi Zhang, Chongyang Shi, Mengting Gui, Shoujin Wang and Usman Naseem

3FP21: Learning to Differentiate Pairwise-Argument Representations for Implicit Discourse Relation Recognition

Zhipang Wang, Yu Hong, Yuxiang Lu, Xiabing Zhou, Jianmin Yao and Guodong Zhou

4FP21: L-APPLE: Language-agnostic Prototype Prefix Learning for Cross-lingual Event Detection

Ziqin Zhu, Xutan Peng, Qian Li, Cheng Ji, Qingyun Sun and Jianxin Li

6FP21: PIECE: Protagonist Identification and Event Chronology Extraction for Enhanced Timeline Summarization

Tz-Huan Hsu, Li-Hsuan Chin, Yen-Hao Huang and Yi-Shin Chen

7FP21: LLaVa-Chef: A Multi-modal Generative Model for Food Recipes

Fnu Mohbat and Mohammed Zaki

FP22: Computer Vision

Room: 110D

Time: Wednesday, 11:00 - 12:45

Chair: Francesca Maridina Malloci

1FP22: Learning Cross-modal Knowledge Reasoning and Heuristic-prompt for Visual-language Navigation

Dongming Zhou, Zhengbin Pang and Wei Li

2FP22: Towards Robust Vision Transformer via Masked Adaptive Ensemble

Fudong Lin, Jiadong Lou, Xu Yuan and Nian-Feng Tzeng

3FP22: FastSimiFeat: A Fast and Generalized Approach Utilizing k -NN for Noisy Data Handling

Jungi Lee, Hwiwoo Park, Myounghwan Kim, Jiseong Yoon, Kwangsun Yoo and Seok-Joo Byun

4FP22: Probabilistic Path Integration with Mixture of Baseline Distributions

Yehonatan Elisha, Oren Barkan and Noam Koenigstein

5FP22: FaDE: A Face Segment Driven Identity Anonymization Framework For Fair Face Recognition

Ziyi Kou, Yijun Tian, Meng Jiang and Xiangliang Zhang

6FP22: SVIPTR: Fast and Efficient Scene Text Recognition with Vision Permutable Extractor

Xianfu Cheng, Weixiao Zhou, Xiang Li, Jian Yang, Hang Zhang, Tao Sun, Wei Zhang, Yuying Mai, Tongliang Li, Xiaoming Chen and Zhoujun Li

7FP22: MSKR: Advancing Multi-modal Structured Knowledge Representation with Synergistic Hard Negative Samples

Shuili Zhang, Hongzhang Mu, Tingwen Liu, Qianqian Tong and Jiawei Sheng

FP23: Federated Learning

Room: 130

Time: Wednesday, 11:00 - 12:45

Chair: Ahmed Khalid

1FP23: Robust Federated Unlearning

Xinyi Sheng, Wei Bao and Liming Ge

2FP23: PIP: Prototypes-Injected Prompt for Federated Class Incremental Learning

Muhammad Anwar Ma'Sum, Mahardhika Pratama, Savitha Ramasamy, Lin Liu, Habibullah Habibullah and Ryszard Kowalczyk

3FP23: Efficient and Secure Contribution Estimation in Vertical Federated Learning

Juan Li, Rui Deng, Tianzi Zang, Mingqi Kong and Kun Zhu

4FP23: Tackling Noisy Clients in Federated Learning with End-to-end Label Correction

Xuefeng Jiang, Sheng Sun, Jia Li, Jingjing Xue, Runhan Li, Zhiyuan Wu, Gang Xu, Yuwei Wang and Min Liu

5FP23: Federated Deep Equilibrium Learning: Harnessing Compact Global Representations to Enhance Personalization

Long Tan Le, Tuan Dung Nguyen, Tung Anh Nguyen, Choong Seon Hong, Suranga Seneviratne, Wei Bao and Nguyen Tran

6FP23: DFLStar: A Decentralized Federated Learning Framework with Self-Knowledge Distillation and Participant Selection

Behnaz Soltani, Venus Haghighi, Yipeng Zhou, Quan Z. Sheng and Lina Yao

7FP23: Federated Heterogeneous Contrastive Distillation for Molecular Representation Learning

Jinjia Feng, Zhen Wang, Zhewei Wei, Hongteng Xu, Yaliang Li and Bolin Ding

ARS6: Knowledge Discovery

Room: 120C

Time: Wednesday, 11:00 - 12:45

Chair: Aniruddha Maiti

1ARS6: CLeAR : Robust Contrastive Learning of Intensity-Aware Representations for Anti-Money Laundering

Shuaibin Huang, Yun Xiong, Yi Xie and Tianyu Qiu

2ARS6: Quality Prediction in Arc Welding: Leveraging Transformer Models and Discrete Representations from Vector Quantised-VAE

Yannik Hahn, Robert Maack, Hasan Tercan, Tobias Meisen, Marion Purrio, Guido Buchholz and Matthias Angerhausen

3ARS6: Combat Greenwashing with GoalSpotter: Automatic Sustainability Objective Detection in Heterogeneous Reports

Mohammad Mahdavi, Ramin Baghaei Mehr and Tom Debus

4ARS6: Towards a Zero-Day Anomaly Detector in Cyber Physical Systems Using a Hybrid VAE-LSTM-OCSVM Model

Romarick Yatagha, Betelhem Alemu Nebebe, Karl Waedt and Christoph Ruland

5ARS6: Bridging Dynamic Factor Models and Neural Controlled Differential Equations for Nowcasting GDP

Seonkyu Lim, Jeongwhan Choi, Noseong Park, Sang-Ha Yoon, Shinhyuck Kang, Young-Min Kim and Hyunjoong Kang

6ARS6: CancerKG.ORG - a Web-scale, Interactive, Verifiable Knowledge Graph-LLM Hybrid for Assisting with Optimal Cancer Treatment and Care

Michael Gubanov, Anna Pyayt and Alexandra Karolack

7ARS6: COKE: Causal Discovery with Chronological Order and Expert Knowledge in High Proportion of Missing Manufacturing Data

Ting-Yun Ou, Ching Chang and Wen-Chih Peng

ARS7: Forecasting, Spatial and Temporal

Room: 120B

Time: Wednesday, 11:00 - 12:45

Chair: Jong-June Jeon

1ARS7: Multiscale Representation Enhanced Temporal Flow Fusion Model for Long-Term Workload Forecasting

Shiyu Wang, Zhixuan Chu, Yinbo Sun, Yu Liu, Yuliang Guo, Yang Chen, Huiyang Jian, Lintao Ma, Xingyu Lu and Jun Zhou

2ARS7: LSR-IGRU: Stock Trend Prediction Based on Long Short-Term Relationships and Improved GRU

Peng Zhu, Yuante Li, Yifan Hu, Qinyuan Liu, Dawei Cheng and Yuqi Liang

3ARS7: Adaptive Cross-platform Transportation Time Prediction for Logistics

Shuxin Zhong, Wenjun Lyu, Zhiqing Hong, Guang Yang, Weijian Zuo, Haotian Wang, Guang Wang, Yu Yang and Desheng Zhang

4ARS7: Process-Informed Deep Learning for Enhanced Order Fulfillment Cycle Time Prediction in On-Demand Grocery Retailing

Jiawen Wei, Ziwen Ye, Chuan Yang, Chen Chen and Guangrui Ma

5ARS7: Cryptocurrency Price Forecasting using Variational AutoEncoder with Versatile Quantile Modeling

Sungchul Hong, Seunghwan An and Jong-June Jeon

6ARS7: DeepClair: Utilizing Market Forecasts for Effective Portfolio Selection

Donghee Choi, Jinkyu Kim, Mogan Gim, Jinho Lee and Jaewoo Kang

7ARS7: Causal Interventional Prediction System for Robust Marketing Campaign Effect Forecasting

Zhixuan Chu, Hui Ding, Guang Zeng, Shiyu Wang and Yiming Li

ARS8: Graphs 1

Room: 120A

Time: Wednesday, 11:00 - 12:45

Chair: Tyler Derr

1ARS8: GraphWeaver: Billion-Scale Cybersecurity Incident Correlation

Scott Freitas and Amir Gharib

2ARS8: Feedback Reciprocal Graph Collaborative Filtering

Weijun Chen, Yuanchen Bei, Qijie Shen, Hao Chen, Xiao Huang and Feiran Huang

3ARS8: A Multi-Node Multi-GPU Distributed GNN Training Framework for Large-Scale Online Advertising

Xuewu Jiao, Xinsheng Luo, Miao Li, Jiang Bian, Junchao Yang, Wei Hu, Mingqing Hu, Weipeng Lu, Shikun Feng, Danlei Feng, Dongxu Yang, Haoyi Xiong, Shuanglong Li and Lin Liu

4ARS8: EricsoGate: Advancing Analytics and Management of Data from Diverse Sources within Ericsson Using Knowledge Graphs

Abdelghny Orogat, Sri Lakshmi Vadlamani, Dimple Thomas and Ahmed El-Roby

5ARS8: Hierarchical Information Propagation and Aggregation in Disentangled Graph Networks for Audience Expansion

Li Lin, Xinyao Chen, Kaiwen Xia, Shuai Wang, Desheng Zhang and Tian He

6ARS8: Mitigating Extreme Cold Start in Graph-based RecSys through Re-ranking

Alessandro Sbandi, Federico Siciliano and Fabrizio Silvestri

7ARS8: GraphScale: A Framework to Enable Machine Learning over Billion-node Graphs

Vipul Gupta, Xin Chen, Ruoyun Huang, Fanlong Meng, Jianjun Chen and Yujun Yan

Wednesday, 13:45 - 15:30, Session 2

ARS9: Graphs 2

Room: 120A

Time: Wednesday, 13:45 - 15:30

Chair: Francesca Maridina Mallocci

1ARS9: G2PTL: a Geography-Graph Pre-trained model

Lixia Wu, Jianlin Liu, Junhong Lou, Minhui Deng, Jianbin Zheng, Haomin Wen, Chao Song and Shu He

2ARS9: Breaking the Barrier: Utilizing Large Language Models for Industrial Recommendation Systems through an Inferential Knowledge Graph

Qian Zhao, Hao Qian, Ziqi Liu, Gong-Duo Zhang and Lihong Gu

3ARS9: Multi-view Causal Graph Fusion based Anomaly Detection in Cyber-Physical Infrastructures

Arun Vignesh Malarkkan, Dongjie Wang and Yanjie Fu

4ARS9: Parallel-friendly Spatio-Temporal Graph Learning for Photovoltaic Degradation Analysis at Scale

Yangxin Fan, Raymond Wieser, Laura Bruckman, Roger French and Yinghui Wu

5ARS9: To Explore or Exploit? A Gradient-informed Framework to Address the Feedback Loop for Graph based Recommendation

Zhigang Huangfu, Binbin Hu, Zhengwei Wu, Fengyu Han, Gong-Duo Zhang, Lihong Gu and Zhiqiang Zhang

6ARS9: Dynamic Graph-based Deep Reinforcement Learning with Long and Short-term Relation Modeling for Portfolio Optimization

Haoyu Sun, Yuxuan Bian, Li Han, Peng Zhu, Dawei Cheng and Yuqi Liang

7ARS9: GLaD: Synergizing Molecular Graphs and Language Descriptors for Enhanced Power Conversion Efficiency Prediction in Organic Photovoltaic Devices

Thao Nguyen, Tiara Torres-Flores, Changhyun Hwang, Carl Edwards, Ying Diao and Heng Ji

ARS10: Reinforcement Learning and Optimization

Room: 120B

Time: Wednesday, 13:45 - 15:30

Chair: Haoran Wang

1ARS10: RL-ISLAP: A Reinforcement Learning Framework for Industrial-Scale Linear Assignment Problems at Alipay

Hanjie Li, Yue Ning, Yang Bao, Changsheng Li, Boxiao Chen, Xingyu Lu, Ye Yuan and Guoren Wang

2ARS10: Transforming Location Retrieval at Airbnb: A Journey from Heuristics to Reinforcement Learning

Dillon Davis, Huiji Gao, Thomas Legrand, Malay Haldar, Alex Deng, Han Zhao, Liwei He and Sanjeev Katariya

3ARS10: Cross-contextual Sequential Optimization via Deep Reinforcement Learning for Algorithmic Trading

Kaiming Pan, Yifan Hu, Li Han, Haoyu Sun, Dawei Cheng and Yuqi Liang

4ARS10: An End-to-End Reinforcement Learning Based Approach for Micro-View Order-Dispatching in Ride-Hailing

Xinlang Yue, Yiran Liu, Fangzhou Shi, Sihong Luo, Chen Zhong, Min Lu and Zhe Xu

5ARS10: Sequential Optimum Test with Multi-armed Bandits for Online Experimentation

Fang Kong, Penglei Zhao, Shichao Han, Yong Wang and Shuai Li

6ARS10: EFFECT-RL: Enabling Framework for Establishing Causality and Triggering engagement through RL

Debanjan Sadhukhan, Deepanshi Seth, Sanjay Agarwal and Tridib Mukherjee

7ARS10: COIN: Chance-Constrained Imitation Learning for Safe and Adaptive Resource Oversubscription under Uncertainty

Lu Wang, Mayukh Das, Fangkai Yang, Chao Du, Bo Qiao, Hang Dong, Chetan Bansal, Si Qin, Saravan Rajmohan, Qingwei Lin, Dongmei Zhang and Qi Zhang

FP24: IR & LLM 1

Room: 100CDE

Time: Wednesday, 13:45 - 15:30

Chair: Yushun Dong

1FP24: Large Language Models Enhanced Collaborative Filtering

Zhongxiang Sun, Zihua Si, Xiaoxue Zang, Kai Zheng, Yang Song, Xiao Zhang and Jun Xu

2FP24: Collaborative Cross-modal Fusion with Large Language Model for Recommendation

Zhongzhou Liu, Hao Zhang, Kuicai Dong and Yuan Fang

3FP24: APTNESS: Incorporating Appraisal Theory and Emotion Support Strategies for Empathetic Response Generation

Yuxuan Hu, Minghuan Tan, Chenwei Zhang, Zixuan Li, Xiaodan Liang, Min Yang, Chengming Li and Xiping Hu

4FP24: LLM4MSR: An LLM-Enhanced Paradigm for Multi-Scenario Recommendation

Yuhao Wang, Yichao Wang, Zichuan Fu, Xiangyang Li, Wanyu Wang, Yuyang Ye, Xiangyu Zhao, Huifeng Guo and Ruiming Tang

5FP24: ELCOREC: Enhance Language Understanding with Co-Propagation of Numerical and Categorical Features for Recommendation

Jizheng Chen, Kounianhua Du, Jianghao Lin, Bo Chen, Ruiming Tang, Weinan Zhang and Yong Yu

6FP24: Distilling Large Language Models for Text-Attributed Graph Learning

Bo Pan, Zheng Zhang, Yifei Zhang, Yuntong Hu and Liang Zhao

7FP24: AgentRE: An Agent-Based Approach for Navigating Complex Information Landscapes in Relation Extraction

Yuchen Shi, Guochao Jiang, Tian Qiu and Deqing Yangs

FP25: Data Quality

Room: 110A

Time: Wednesday, 13:45 - 15:30

Chair: Stefano Marchesin

1FP25: Data Imputation from the Perspective of Graph Dirichlet Energy

Weiqi Zhang, Guanlue Li, Jianheng Tang, Jia Li and Fuguee Tsung

2FP25: Accurate Neural Network Option Pricing Methods with Control Variate Techniques and Data Synthesis/Cleaning with Financial Rationality

Chia-Wei Hsu, Tian Shyr Dai, Chuan-Ju Wang and Ying-Ping Chen

3FP25: Combining Incomplete Observational and Randomized Data for Heterogeneous Treatment Effects

Dong Yao, Caizhi Tang, Qing Cui and Longfei Li

4FP25: Enhancing Deep Entity Resolution with Integrated Blocker-Matcher Training: Balancing Consensus and Discrepancy

Wenzhou Dou, Derong Shen, Xiangmin Zhou, Hui Bai, Yue Kou, Tiezheng Nie, Hang Cui and Ge Yu

5FP25: Towards Coarse-grained Visual Language Navigation Task Planning Enhanced by Event Knowledge Graph

Kaichen Zhao, Yaoxian Song, Haiquan Zhao, Haoyu Liu, Tiefeng Li and Zhixu Li

6FP25: Benchmarking Challenges for Temporal Knowledge Graph Alignment

Weixin Zeng, Jie Zhou and Xiang Zhao

7FP25: UniMEL: A Unified Framework for Multimodal Entity Linking with Large Language Models

Qi Liu, Yongyi He, Tong Xu, Defu Lian, Che Liu, Zhi Zheng and Enhong Chen

FP26: Recommender Systems 2

Room: 110BD

Time: Wednesday, 13:45 - 15:30

Chair: Kshiteesh Hegde

1FP26: Collaborative Alignment for Recommendation

Chen Wang, Liangwei Yang, Zhiwei Liu, Xiaolong Liu, Mingdai Yang, Yueqing Liang and Philip Yu

2FP26: Adversarial Text Rewriting for Text-aware Recommender Systems

Sejoon Oh, Gaurav Verma and Srijan Kumar

3FP26: Aligning Large Language Model with Direct Multi-Preference Optimization for Recommendation

Zhuoxi Bai, Ning Wu, Fengyu Cai, Xinyi Zhu and Yun Xiong

4FP26: Multi-Task Recommendation with Task Information Decoupling

Ruiran Yan, Rui Fan and Defu Lian

5FP26: Decoupled Behavior-based Contrastive Recommendation

Mengduo Yang, Jie Zhou, Meng Xi, Xiaohua Pan, Yi Yuan, Ying Li, Yangyang Wu, Jinshan Zhang and Jianwei Yin

6FP26: MuLe: Multi-Grained Graph Learning for Multi-Behavior Recommendation

Seunghan Lee, Geonwoo Ko, Hyun-Je Song and Jinhong Jung

7FP26: Preference Prototype-Aware Learning for Universal Cross-Domain Recommendation

Yuxi Zhang, Ji Zhang, Feiyang Xu, Lvyang Chen, Bohan Li, Lei Guo and Hongzhi Yin

FP27: Question Answering

Room: 110D

Time: Wednesday, 13:45 - 15:30

Chair: Gareth Jones

1FP27: Zero-shot Knowledge Graph Question Generation via Multi-agent LLMs and Small Models Synthesis

Runhao Zhao, Jiuyang Tang, Weixin Zeng, Ziyang Chen and Xiang Zhao

2FP27: A GAIL Fine-Tuned LLM Enhanced Framework for Low-Resource Knowledge Graph Question Answering

Zhiqiang Zhang, Liqiang Wen and Wen Zhao

3FP27: Aligning Large Language Models to a Domain-specific Graph Database for NL2GQL

Yuanyuan Liang, Keren Tan, Tingyu Xie, Wenbiao Tao, Siyuan Wang, Yunshi Lan and Weining Qian

4FP27: Enhancing the Completeness of Rationales for Multi-Step Question Answering

Shangzi Xue, Zhenya Huang, Xin Lin, Jiayu Liu, Longhu Qin, Tianhuang Su, Haifeng Liu and Qi Liu

5FP27: RD-P: A Trustworthy Retrieval-Augmented Prompter with Knowledge Graphs for LLMs

Yubo Huang and Guosun Zeng

6FP27: Can LLMs Reason Like Humans? Assessing Theory of Mind Reasoning in LLMs for Open-Ended Questions

Maryam Amirizani, Elias Martin, Maryna Sivachenko, Afra Mashahdi and Chirag Shah

7FP27: Towards Deconfounded Visual Question Answering via Dual-causal Intervention

Daowan Peng and Wei Wei

FP28: Conversational Interactions

Room: 120C

Time: Wednesday, 13:45 - 15:30

Chair: Sheikh Muhammad Sarwar

1FP28: UniMPC: Towards a Unified Framework for Multi-Party Conversations

Yunhe Xie, Chengjie Sun, Yifan Liu, Zhenzhou Ji and Bingquan Liu

2FP28: Reformulating Conversational Recommendation Systems as Tri-Phase Offline Policy Learning

Gangyi Zhang, Chongming Gao, Hang Pan, Runzhe Teng and Ruizhe Li

3FP28: Inferring Visualization Intent from Conversation

Haotian Li, Nithin Chalapathi, Huamin Qu, Alvin Cheung and Aditya G. Parameswaran

4FP28: Re-evaluating the Command-and-Control Paradigm in Conversational Search Interactions

Johanne R Trippas, Luke Gallagher and Joel Mackenzie

5FP28: Aligning Query Representation with Rewritten Query and Relevance Judgments in Conversational Search

Fengran Mo, Chen Qu, Kelong Mao, Yihong Wu, Zhan Su, Kaiyu Huang and Jian-Yun Nie

6FP28: MemoCRS: Memory-enhanced Sequential Conversational Recommender Systems with Large Language Models

Yunjia Xi, Weiwen Liu, Jianghao Lin, Bo Chen, Ruiming Tang, Weinan Zhang and Yong Yu

7FP28: SALA: Scenario-aware Label Graph Learning for Multi-intent Spoken Language Understanding

Zhihong Zhu, Xuxin Cheng, Zhanpeng Chen, Zhichang Wang, Zhiqi Huang and Yuexian Zou

FP29: Knowledge Graphs 2

Room: 130

Time: Wednesday, 13:45 - 15:30

Chair: Mahantesh Halappanavar

1FP29: Bi-directional Learning of Logical Rules with Type Constraints for Knowledge Graph Completion

Kunxun Qi, Jianfeng Du and Hai Wan

2FP: Look Globally and Reason: Two-stage Path Reasoning over Sparse Knowledge Graphs

Saiping Guan, Jiyao Wei, Xiaolong Jin, Jiafeng Guo and Xueqi Cheng

3FP29: FZR: Enhancing Knowledge Transfer via Shared Factors Composition in Zero-Shot Relational Learning

Zhijun Dong, Likang Wu, Kai Zhang, Ye Liu, Yanghai Zhang, Zhi Li, Hongke Zhao and Enhong Chen

4FP29: CYCLE: Cross-Year Contrastive Learning in Entity-linking

Pengyu Zhang, Congfeng Cao, Klim Zaporozhets and Paul Groth

5FP29: Language Models-enhanced Semantic Topology Representation Learning For Temporal Knowledge Graph Extrapolation

Tianli Zhang, Tongya Zheng, Zhenbang Xiao, Zulong Chen, Liangyue Li, Zunlei Feng, Dongxiang Zhang and Mingli Song

6FP29: Integrating Structure and Text for Enhancing Hyper-relational Knowledge Graph Representation via Structure Soft Prompt Tuning

Lijie Li, Hui Wang, Jiahang Li, Xiaodi Xu, Ye Wang and Tao Ren

7FP29: Confidence-aware Self-Semantic Distillation on Knowledge Graph Embedding

Yichen Liu, Jiawei Chen, Defang Chen, Zhehui Zhou, Yan Feng and Can Wang

Wednesday, 16:00 - 17:30, Session 3

FP30: Machine Learning & AI 1

Room: 100CDE

Time: Wednesday, 16:00 - 17:30

Chair: Avinash Anand

1FP30: Transformer Based Bayesian Network Embedding for Efficient Multiple Probabilistic Inferences

Kun Yue, Qi Zhiwei and Liang Duan

2FP30: Finding MIDDLE Ground: Scalable and Secure Distributed Learning

Marco Bornstein, Nawaf Nazir, Jan Drgona, Soumya Kundu and Veronica Adetola

3FP30: Tiled Bit Networks: Sub-Bit Neural Network Compression Through Reuse of Learnable Binary Vectors

Matt Gorbett, Hossein Shirazi and Indrakshi Ray

4FP30: Novelty-aware Graph Traversal and Expansion for Hierarchical Reinforcement Learning

Jongchan Park, Seungjun Oh and Yusung Kim

5FP30: Low Carbon Footprint Training for 1D-CNNs with Temporal Max-Pooling

Anandharaju Durai Raju and Ke Wang

6FP30: PISel: Pipelining DNN Inference for Serverless Computing

Masoud Rahimi Jafari, Jianchang Su, Yifan Zhang and Wei Zhang

FP31: Recommender Systems 3

Room: 110BC

Time: Wednesday, 16:00 - 17:30

Chair: Bowei He

1FP31: Bridging User Dynamics: Transforming Sequential Recommendations with Schrödinger Bridge and Diffusion Models

Wenjia Xie, Rui Zhou, Hao Wang, Tingjia Shen and Enhong Chen

2FP31: Efficient and Robust Regularized Federated Recommendation

Langming Liu, Wanyu Wang, Xiangyu Zhao, Zijian Zhang, Chunxu Zhang, Shanru Lin, Yiqi Wang, Lixin Zou, Zitao Liu, Xuetao Wei, Hongzhi Yin and Qing Li

3FP31: Relative Contrastive Learning for Sequential Recommendation with Similarity-based Positive Sample Selection

Zhikai Wang, Yanyan Shen, Zexi Zhang, Li He, Yichun Li, Hao Gu and Yinghua Zhang

4FP31: Spectral and Geometric Spaces Representation Regularization for Multi-Modal Sequential Recommendation

Zihao Li, Xuekong Xu, Zuoli Tang, Lixin Zou, Qian Wang and Chenliang Li

5FP31: Scalable Dynamic Embedding Size Search for Streaming Recommendation

Yunke Qu, Liang Qu, Tong Chen, Xiangyu Zhao, Quoc Viet Hung Nguyen and Hongzhi Yin

6FP31: Multi-modal Food Recommendation with Health-aware Knowledge Distillation

Yixin Zhang, Xin Zhou, Fanglin Zhu, Ning Liu, Wei Guo, Yonghui Xu, Zhiqi Shen and Lizhen Cui

FP32: Databases

Room: 110D

Time: Wednesday, 16:00 - 17:30

Chair: Gabrielle Poerwawinata

1FP32: Fragment Allocations for Partially Replicated Databases Considering Data Modifications and Changing Workloads

Stefan Halfpap and Rainer Schlosser

2FP32: Towards Online and Safe Configuration Tuning with Semi-supervised Anomaly Detection

Haitian Chen, Xu Chen, Zibo Liang, Xiushi Feng, Jiandong Xie, Han Su and Kai Zheng

3FP32: TESSM: Tree-based Selective State Space Models for Efficient Join Order Selection Learning

Yaohui Chu, Yizhe Liu, Yue Zhang, Xuan Hou, Longfei Yu and Zhaohui Peng

4FP32: HTFabric: A fast re-ordering and parallel re-execution method for a high-throughput blockchain

Jaeyub Song, Inju Na, Juyeong Jeong, Jemin Lee and Min-Soo Kim

5FP32: A Cause-Focused Query Optimizer Alert System

Runfan Ye, Zibo Liang, Xu Chen, Shuncheng Liu and Kai Zheng

6FP32: Using Distributed Ledgers To Build Knowledge Graphs For Decentralized Computing Ecosystems

Tarek Zaarour, Ahmed Khalid, Preeja Pradeep and Ahmed Zahran

FP33: Data Mining

Room: 120B

Time: Wednesday, 16:00 - 17:30

Chair: Wen-Bo Xie

1FP33: Learning Fair Invariant Representations under Covariate and Correlation Shifts Simultaneously

Dong Li, Chen Zhao, Minglai Shao and Wenjun Wang

2FP33: Cultural Commonsense Knowledge for Intercultural Dialogues

Tuan-Phong Nguyen, Simon Razniewski and Gerhard Weikum

3FP33: ACDM: An Effective and Scalable Active Clustering with Pairwise Constraint

Xun Fu, Wen-Bo Xie, Bin Chen, Tao Deng, Tian Zou and Xin Wang

4FP33: From Retrieval to Generation: Efficient and Effective Entity Set Expansion

Shulin Huang, Shirong Ma, Yangning Li, Yinghui Li and Hai-Tao Zheng

5FP33: Self-Supervision Improves Diffusion Models for Tabular Data Imputation

Yixin Liu, Ajanthan Thalaiyasingam, Hisham Husain and Vu Nguyen

6FP33: Fast and Accurate PARAFAC2 Decomposition for Time Range Queries on Irregular Tensors

Jun-Gi Jang, Yong-chan Park and U Kang

FP34: Prediction

Room: 120C
Time: Wednesday, 16:00 - 17:30
Chair: Karankumar Sabhnani

1FP34: Predicting Scientific Impact Through Diffusion, Conformity, and Contribution Disentanglement

Zhikai Xue, Guoxiu He, Zhuoren Jiang, Sichen Gu, Yangyang Kang, Star Zhao and Wei Lu

2FP34: A Universal and Interpretable Method for Enhancing Stock Price Prediction

Yuchen Liu, Shimin Di, Lei Chen, Xiaofang Zhou and Fei Lin

3FP34: Behavior-Aware Hypergraph Convolutional Network for Illegal Parking Prediction with Multi-Source Contextual Information

Guang Yang, Meiqi Tu, Zelong Li, Jinqian Hang, Taichi Liu, Ruofeng Liu, Yi Ding, Yu Yang and Desheng Zhang

4FP34: Seeing the Forest for the Trees: Road-Level Insights Assisted Lane-Level Traffic Prediction

Shuhao Li, Yue Cui, Jingyi Xu, Jing Zhao, Weidong Yang, Fan Zhang and Xiaofang Zhou

5FP34: OptDist: Learning Optimal Distribution for Customer Lifetime Value Prediction

Yunpeng Weng, Xing Tang, Zhenhao Xu, Fuyuan Lyu, Dugang Liu, Zexu Sun and Xiuqiang He

6FP34: Navigating the Landscape of Reproducible Research: A Predictive Modeling Approach

Akhil Pandey Akella, Sagnik Ray Choudhury, David Koop and Hamed Alhoori

FP35: Privacy & Security 1

Room: 130
Time: Wednesday, 16:00 - 17:30
Chair: ~~Fazelen Hoseini~~ Xin Liu

1FP35: Privacy-preserving Spatial Dataset Search in Cloud

Pengyue Li, Hua Dai, Sheng Wang, Wenzhe Yang and Geng Yang

2FP35: DPCAG: A Community Affiliation Graph Generation Model for Preserving Group Relationships

Xinjian Zhang, Bo Ning and Chengfei Liu

3FP35: Privacy-Preserving Graph Embedding based on Local Differential Privacy

Zening Li, Rong-Hua Li, Meihao Liao, Fusheng Jin and Guoren Wang

4FP35: Watermarking Recommender Systems

Sixiao Zhang, Cheng Long, Wei Yuan, Hongxu Chen and Hongzhi Yin

5FP35: Honest-Majority Maliciously Secure Skyline Queries on Outsourced Data

Yu Chen, Lin Liu, Rongmao Chen, Shaojing Fu and Yuexiang Yang

6FP35: Post-Quantum Searchable Encryption Supporting User-Authorization for Outsourced Data Management

Shiyuan Xu, Yibo Cao, Xue Chen, Yu Guo, Yuer Yang, Fangda Guo and Siu-Ming Yiu

ARS11: Users & Behavior

Room: 120A

Time: Wednesday, 16:00 - 17:30

Chair: Djordje Gligorijevic

1ARS11: PODTILE: Facilitating Podcast Episode Browsing With Auto-generated Chapters

Azin Ghazimatin, Ekaterina Garmash, Gustavo Penha, Kristen Sheets, Martin Achenbach, Oguz Semerci, Remi Galvez, Marcus Tannenber, Sahitya Mantravadi, Divya Narayanan, Ofeliya Kalaydzhy, Doug Cole, Ben Carterette, Ann Clifton, Mounia Lalmas-Roelleke, Paul Bennett and Claudia Hauff

2ARS11: UniEmbedding: Learning Universal Multi-Modal Multi-Domain Item Embeddings via User-View Contrastive Learning

Boqi Dai, Zhaocheng Du, Jieming Zhu, Jintao Xu, Deqing Zou, Quanyu Dai, Zhenhua Dong, Hai-Tao Zheng and Rui Zhang

3ARS11: A Behavior-aware Cause Identification Framework for Order Cancellation in Logistics Service

Shuxin Zhong, Yahan Gu, Wenjun Lyu, Hongyu Lin, Guang Yang, Yao Lu, Guang Wang, Yu Yang and Desheng Zhang

4ARS11: CourIRL: Predicting Couriers' Behavior in Last-Mile Delivery Using Crossed-Attention Inverse Reinforcement Learning

Shuai Wang, Tongtong Kong, Baoshen Guo, Li Lin and Haotian Wang

5ARS11: PlayBest: Professional Basketball Player Behavior Synthesis via Planning with Diffusion

Xiusi Chen, Wei-Yao Wang, Ziniu Hu, David Reynoso, Kun Jin, Mingyan Liu, P. Jeffrey Brantingham and Wei Wang

6ARS11: Behavior-aware Sparse Trajectory Recovery in Last-mile Delivery with Multi-scale Attention Fusion

Hai Wang, Shuai Wang, Li Lin, Yu Yang, Shuai Wang and Hongkai Wen

Re2: Multimodal Dataset Curation and Knowledge Representation

Room: 110A

Time: Wednesday, 16:00 - 17:30

Chair: Amit Jain

1Re2: Multi-turn Classroom Dialogue Dataset: Assessing Student Performance from One-on-one Conversations

Jiahao Chen, Zitao Liu, Mingliang Hou, Xiangyu Zhao and Weiqi Luo

2Re2: M3: A Multi-Image Multi-Modal Entity Alignment Dataset

Shiqi Zhang, Weixin Zeng, Zhen Tan, Xiang Zhao and Weidong Xiao

3Re2: VHAKG: A Multi-modal Knowledge Graph Based on Synchronized Multi-view Videos of Daily Activities

Shusaku Egami, Takanori Ugai, Swe Nwe Nwe Htun and Ken Fukuda

4Re2: CheckGuard: Advancing Stolen Check Detection with a Cross-Modal Image-Text Benchmark Dataset

Fei Zhao, Jiawen Chen, Bin Huang, Chengcui Zhang and Gary Warner

5Re2: AnnoRank: A Comprehensive Web-Based Framework for Collecting Annotations and Assessing Rankings

Clara Rus, Gabrielle Poerwawinata, Andrew Yates and Maarten de Rijke

6Re2: Understanding the User: An Intent-Based Ranking Dataset

Abhijit Anand, Jurek Leonhardt, Venkatesh V and Avishek Anand

Thursday, 09:00 - 10:30, Keynote: Charu C. Aggarwal

Room: 100CDE

Time: Thursday, 09:00 - 10:30

Chair: Yinglong Xia

Ensembles for Outlier Detection and Evaluation

Thursday, 11:00 - 12:45, Session 1

FP36: LLMs

Room: 100CDE

Time: Thursday, 11:00 - 12:45

Chair: Aman Gupta

1FP36: Topology-aware Retrieval Augmentation for Text Generation

Yu Wang, Nedim Lipka, Ruiyi Zhang, Alexa Siu, Bo Ni, Yuying Zhao, Xin Wang, Ryan Rossi and Tyler Derr

2FP36: Empowering Private Tutoring by Chaining Large Language Models

Yulin Chen, Ning Ding, Hai-Tao Zheng, Zhiyuan Liu, Maosong Sun and Bowen Zhou

3FP36: Mitigating Cold-Start Problems in Knowledge Tracing with Large Language Models: An Attribute-aware Approach

Yuxiang Guo, Shuanghong Shen, Qi Liu, Zhenya Huang, Linbo Zhu, Yu Su and Enhong Chen

4FP36: PIXEL: Prompt-based Zero-shot Hashing via Visual and Textual Semantic Alignment

Zeyu Dong, Qingqing Long, Yihang Zhou, Zhihong Zhu, Yidong Wang, Xiao Luo, Pengyang Wang, Pengfei Wang and Yuanchun Zhou

5FP36: SINKT: A Structure-Aware Inductive Knowledge Tracing Model with Large Language Model

Lingyue Fu, Hao Guan, Kounianhua Du, Jianghao Lin, Wei Xia, Ruiming Tang, Yasheng Wang, Weinan Zhang and Yong Yu

6FP36: Advances in Citation Text Generation: Leveraging Multi-Source Seq2Seq Models and Large Language Models

Avinash Anand, Ashwin Nair, Kritarth Prasad, Vrinda Narayan, Naman Lal, Debanjan Mahata, Yaman Singla and Rajiv Shah

7FP36: Source Prompt: Coordinated Pre-training of Language Models on Diverse Corpora from Multiple Sources

Yipei Xu, Dakuan Lu, Jiaqing Liang, Jin Zhao, Xintao Wang, Hengkui Wu, Ken Chen, Liujiang Liu, Yingsi Xin, Xuepeng Liu, Yanghua Xiao and Zhixu Li

FP37: Privacy & Security 2

Room: 110A
Time: Thursday, 11:00 - 12:45
Chair: Nawaf Nazir

1FP37: Interaction-level Membership Inference Attack against Recommender Systems with Long-tailed Distribution

Da Zhong, Xiuling Wang, Zhichao Xu, Jun Xu and Wendy Hui Wang

2FP37: Unveiling Intellectual Property Vulnerabilities of GAN-Based Distributed Machine Learning through Model Extraction Attacks

Mengyao Ma, Shuofeng Liu, Pathum Chamikara Mahawaga Arachchige, Mohan Baruwal Chhetri and Guangdong Bai

3FP37: Breaking State-of-the-Art Poisoning Defenses to Federated Learning: An Optimization-Based Attack Framework

Yuxin Yang, Qiang Li, Chenfei Nie, Yuan Hong and Binghui Wang

4FP37: LST2A: Lexical-Syntactic Targeted Adversarial Attack for Texts

Guanghao Zhou, Panjia Qiu, Mingyan Fan, Cen Chen, Yaliang Li and Wenmeng Zhou

5FP37: Trojan Activation Attack: Red-Teaming Large Language Models using Steering Vectors for Safety-Alignment

Haoran Wang and Kai Shu

6FP37: Improving Adversarial Transferability via Frequency-Guided Sample Relevance Attack

Xinyi Wang, Zhibo Jin, Zhiyu Zhu, Jiayu Zhang and Huaming Chen

7FP37: SGFL-Attack: A Similarity-Guidance Strategy for Hard-Label Textual Adversarial Attack Based on Feedback Learning

Panjia Qiu, Guanghao Zhou, Mingyuan Fan, Cen Chen, Yaliang Li and Wenming Zhou

FP38: IR & LLM 2

Room: 110BC
Time: Thursday, 11:00 - 12:45
Chair: Negar arabzadeh

1FP38: Generating Intent-aware Clarifying Questions in Conversational Information Retrieval Systems

Ziliang Zhao, Zhicheng Dou and Yujia Zhou

2FP38: Time-Sensitive Retrieval-Augmented Generation for Question Answering

Feifan Wu, Lingyuan Liu, Wentao He, Ziqi Liu, Zhiqiang Zhang, Haofen Wang and Meng Wang

3FP38: Retrieval-enhanced Knowledge Editing in Language Models for Multi-Hop Question Answering

Yucheng Shi, Qiaoyu Tan, Xuansheng Wu, Shaochen Zhong, Kaixiong Zhou and Ninghao Liu

4FP38: Automatic Large Language Model Evaluation via Peer Review

Zhumin Chu, Qingyao Ai, Yiteng Tu, Haitao Li and Yiqun Liu

5FP38: ITIU: Intention Understanding via Interactive Table in Large Language Models

Zenghua Liao, Jinzhi Liao and Xiang Zhao

6FP38: Cost-Effective Framework with Optimized Task Decomposition and Batch Prompting for Medical Dialogue Summary

Chi Zhang, Tao Chen, Jiehao Chen, Hao Wang, Jiyun Shi, Zhaojing Luo and Meihui Zhang

7FP38: Towards Completeness-Oriented Tool Retrieval for Large Language Models

Changle Qu, Sunhao Dai, Xiaochi Wei, Hengyi Cai, Shuaiqiang Wang, Dawei Yin, Jun Xu and Ji-Rong Wen

FP39: Spatio-Temporal Data 1

Room: 110D

Time: Thursday, 11:00 - 12:45

Chair: Jalal Khalil

1FP39: City Foundation Models for Learning General Purpose Representations from OpenStreetMap

Pasquale Balsebre, Weiming Huang, Gao Cong and Yi Li

2FP39: Urban Traffic Accident Risk Prediction Revisited: Regionality, Proximity, Similarity and Sparsity

Minxiao Chen, Haitao Yuan, Nan Jiang, Zhifeng Bao and Shangguang Wang

3FP39: ByGCN: Spatial Temporal Byroad-Aware Graph Convolution Network for Traffic Flow Prediction in Road Networks

Tangpeng Dan, Xiao Pan, Bolong Zheng and Xiaofeng Meng

4FP39: KMCT: k-Means Clustering of Trajectories Efficiently in Location-Based Services

Yuanjun Liu, Guanfeng Liu, Qingzhi Ma, Zhixu Li, Shiting Wen, Lei Zhao and An Liu

5FP39: Rethinking Attention Mechanism for Spatio-Temporal Modeling: A Decoupling Perspective in Traffic Flow Prediction

Qi Yu, Weilong Ding, Hao Zhang, Yang Yang and Tianpu Zhang

6FP39: AdaTrans: Adaptive Transfer Time Prediction for Multi-modal Transportation Modes

Shuxin Zhong, Hua Wei, Wenjun Lyu, Guang Yang, Zhiqing Hong, Guang Wang, Yu Yang and Desheng Zhang

7FP39: A Spatio-Temporal Diffusion Model for Missing and Real-Time Financial Data Inference

Yupeng Fang, Ruirui Liu, Huichou Huang, Peilin Zhao and Qingyao Wu

FP40: Personalization

Room: 120C

Time: Thursday, 11:00 - 12:45

Chair: Abhishek Umrawal

1FP40: Sparks of Surprise: Multi-objective Recommendations with Hierarchical Decision Transformers for Diversity, Novelty, and Serendipity

Jie Wang, Alexandros Karatzoglou, Ioannis Arapakis, Xin Xin, Xuri Ge and Joemon Jose

2FP40: Learnable Item Tokenization for Generative Recommendation

Wenjie Wang, Honghui Bao, Xinyu Lin, Jizhi Zhang, Yongqi Li, Fuli Feng, See-Kiong Ng and Tat-Seng Chua

3FP40: A Universal Sets-level Optimization Framework for Next Set Recommendation

Yuli Liu, Min Liu, Christian Walder and Lexing Xie

4FP40: Diffusion Model for Social Recommendation

Zongwei Li, Lianghao Xia and Chao Huang

5FP40:SAQRec: Aligning Recommender Systems to User Satisfaction via Questionnaire Feedback

Kepu Zhang, Teng Shi, Sunhao Dai, Xiao Zhang, Yinfeng Li, Jing Lu, Xiaoxue Zang, Yang Song and Jun Xu

6FP40: Behavior-Dependent Linear Recurrent Units for Efficient Sequential Recommendation

Chengkai Liu, Jianghao Lin, Hanzhou Liu, Jianling Wang and James Caverlee

7FP40: Calibration-Disentangled Learning and Relevance-Prioritized Reranking for Calibrated Sequential Recommendation

Hyunsik Jeon, Se-eun Yoon and Julian McAuley

FP41: Graph Learning 1

Room: 130

Time: Thursday, 11:00 - 12:45

Chair: Yu Wang

1FP41: Shape-aware Graph Spectral Learning

Junjie Xu, Enyan Dai, Dongsheng Luo, Xiang Zhang and Suhan Wang

2FP41: Revisit Orthogonality in Graph-Regularized MLPs

Hengrui Zhang, Shen Wang, Vassilis Ioannidis, Adesoji Adeshina, Jiani Zhang, Xiao Qin, Christos Faloutsos, Da Zheng, George Karypis and Philip Yu

3FP41: InfoMLP: Unlocking the Potential of MLPs for Semi-Supervised Learning with Structured Data

Hengrui Zhang, Qitian Wu, Chenxiao Yang and Philip Yu

4FP41: Noise-Resilient Unsupervised Graph Representation Learning via Multi-Hop Feature Quality Estimation

Shiyuan Li, Yixin Liu, Qingfeng Chen, Geoffrey Webb and Shirui Pan

5FP41: Improving Message-Passing GNNs by Asynchronous Aggregation

Jialong Chen, Tianchi Liao, Chuan Chen and Zibin Zheng

6FP41: Debiased Graph Poisoning Attack via Contrastive Surrogate Objective

Kanghoon Yoon, Yeonjun In, Namkyeong Lee, Kibum Kim and Chanyoung Park

7FP41: Inductive Knowledge Graph Embedding via Exploring Interaction Patterns of Relations

Chong Mu, Lizong Zhang, Jinchuan Zhang, Qian Huang and Zhiguo Wang

ARS12: CTR & Ads

Room: 120A

Time: Thursday, 11:00 - 12:45

Chair: Jun Xiao

1ARS12: Ads Supply Personalization via Doubly Robust Learning

Wei Shi, Fu Chen, Qi Xu, Sanjian Chen, Jizhe Zhang, Qinqin Zhu, Zhigang Hua and Shuang Yang

2ARS12: Enhancing Taobao Display Advertising with Multi-Modal Representations: Challenges, Approaches and Insights

Xiang-Rong Sheng, Feifan Yang, Litong Gong, Biao Wang, Zhangming Chan, Yujing Zhang, Yueyao Cheng, Yong-Nan Zhu, Tiezheng Ge, Han Zhu, Yuning Jiang, Jian Xu and Bo Zheng

3ARS12: Scaling Vision-Language Foundation Model to 12 Billion Parameters in Baidu Dynamic Image Advertising

Xinyu Zhao, Kang Zhao, Zhipeng Jin, Yi Yang, Wen Tao, Xiaodong Chen, Cong Han, Shuanglong Li and Lin Liu

4ARS12: Deep Journey Hierarchical Attention Networks for Conversion Predictions in Digital Marketing

Girim Ban, Hyeonseok Yun, Banseok Lee, David Sung and Simon Woo

5ARS12: LightAdaptor: Learning Lightweight Semantic Feature Adaptor from Large Language Models for CTR Prediction

Zexuan Qiu, Jieming Zhu, Yankai Chen, Guohao Cai, Weiwen Liu, Zhenhua Dong and Irwin King

6ARS12: Advancing Re-ranking with Multimodal Fusion and Target-Oriented Auxiliary Tasks in E-commerce Search

Enqiang Xu, Xinhui Li, Zhigong Zhou, Jiahao Ji, Jinyuan Zhao, Dadong Miao, Songlin Wang, Lin Liu and Sulong Xu

7ARS12: Towards Better Search Query Classification with Distribution-Diverse Multi-Expert Knowledge Distillation in JD Ads Search

Kunpeng Ning, Ming Pang, Zheng Fang, Xue Jiang, Xiwei Zhao, Changping Peng, Zhangang Lin, Jinghe Hu, Jingping Shao and Li Yuan

ARS13: Vision and Others

Room: 120B

Time: Thursday, 11:00 - 12:45

Chair: Thao Nguyen

1ARS13: CPFD: Confidence-aware Privileged Feature Distillation for Short Video Classification

Jinghao Shi, Xiang Shen, Kaili Zhao, Xuedong Wang, Vera Wen, Zixuan Wang, Yifan Wu and Zhixin Zhang

2ARS13: Automated Nanoparticle Image Processing Pipeline for AI-Driven Materials Characterization

Alexandra Day, Carolin B Wahl, Roberto dos Reis, Vinayak P. Dravid, Wei-Keng Liao, Alok Choudhary and Ankit Agrawal

3ARS13: Personalized Video Summarization by Multimodal Video Understanding

Brian Chen, Xiangyuan Zhao and Yingnan Zhu

4ARS13: Collaborative Scope: Encountering the Substitution Effect within the Delivery Scope in Online Food Delivery Platform

Yida Zhu, Liying Chen, Chen Zheng, Jia Shi, Daping Xiong, Zewen Huang, Shihao Ren, Shuiping Chen, Jinghua Hao and Renqing He

5ARS13: Confidence-Aware Multi-Field Model Calibration

Yuang Zhao, Chuhan Wu, Qinglin Jia, Hong Zhu, Jia Yan, Libin Zong, Linxuan Zhang, Zhenhua Dong and Muyu Zhang

6ARS13: "Reasoning before Responding": Towards Legal Long-form Question Answering with Interpretability

Utkarsh Ujwal, Sai Sri Harsha Surampudi, Sayantan Mitra and Tulika Saha

7ARS13: XCapsUTL: Cross-domain Unsupervised Transfer Learning Framework using a Capsule Neural Network

Naman Khetan, Sanyog Dewani, Gokul Swamy and Vikalp Gajbhiye

Thursday, 13:45 - 15:30, Session 2

FP42: Graph Neural Networks 1

Room: 100CDE

Time: Thursday, 13:45 - 15:30

Chair: Chen Shen

1FP42: NeutronCache: An Efficient Cache-Enhanced Distributed Graph Neural Network Training System

Chu Zhao, Shengjie Dong, Yuhai Zhao and Yuan Li

2FP42: Beyond Over-smoothing: Uncovering the Trainability Challenges in Deep Graph Neural Networks

Jie Peng, Runlin Lei and Zhewei Wei

3FP42: Understanding GNNs for Boolean Satisfiability through Approximation Algorithms

Jan Hůla, David Mojžíšek and Mikolas Janota

4FP42: Exploring Robustness of GNN against Universal Injection Attack From a Worst-case Perspective

Dandan Ni, Sheng Zhang, Cong Deng, Han Liu, Gang Chen, Minhao Cheng and Hongyang Chen

5FP42: Distilling Multi-Scale Knowledge for Event Temporal Relation Extraction

Hao-Ren Yao, Luke Breitfeller, Aakanksha Naik, Chunxiao Zhou and Carolyn Rose

6FP42: PROSPECT: Learn MLPs on Graphs Robust against Adversarial Structure Attacks

Bowen Deng, Jialong Chen, Yanming Hu, Zhiyong Xu, Chuan Chen and Tao Zhang

7FP42: Collaborative Fraud Detection on Large Scale Graph using Secure Multi-Party Computation

Xin Liu, Xiaoyu Fan, Rong Ma, Kun Chen, Yi Li, Guosai Wang and Wei Xu

FP43: Time Series Data 2

Room: 110A

Time: Thursday, 13:45 - 15:30

Chair: Pedro Herrero-Vidal

1FP43: MATCC: A Novel Approach for Robust Stock Price Prediction Incorporating Market Trends and Cross-time Correlations

Zhiyuan Cao, Jiayu Xu, Chengqi Dong, Peiwen Yu and Tian Bai

2FP43: REDI: Recurrent Diffusion Model for Probabilistic Time Series Forecasting

Shiyang Zhou, Zehao Gu, Yun Xiong, Yang Luo, Qiang Wang and Xiaofeng Gao

3FP43: MTSCI: A Conditional Diffusion Model for Multivariate Time Series Consistent Imputation

Jianping Zhou, Junhao Li, Guanjie Zheng, Xinbing Wang and Chenghu Zhou

4FP43: Towards Uncertainty Quantification for Time Series Segmentation

Erick Draayer and Huiping Cao

5FP43: Time-Series Representation Learning via Dual Reference Contrasting

Rui Yu, Yongshun Gong, Shoujin Wang, Jiasheng Si, Xueping Peng, Bing Xu and Wenpeng Lu

6FP43: Periormer: Periodic Transformer for seasonal and irregularly sampled time series

Xiaobin Ren, Kaiqi Zhao, Katerina Taskova, Patricia Riddle and Lianyan Li

7FP43: A Payment Transaction Pre-training Model for Fraud Transaction Detection

Wenxi Huang, Zhangyi Zhao, Xiaojun Chen, Qin Zhang, Mark Junjie Li, Hanjing Su and Qingyao Wu

FP44: Recommender Systems 4

Room: 110BC

Time: Thursday, 13:45 - 15:30

Chair: Yue Kou

1FP44: GameTrail: Probabilistic Lifecycle Process Model for Deep Game Understanding

Shanyang Jiang, Lan Zhang, Hui Xu, Jiahui Huang, Qi He, Xing Zhou, Lei Huang and Jie Jiang

2FP44: On Causally Disentangled State Representation Learning for Reinforcement Learning based Recommender Systems

Siyu Wang, Xiaocong Chen and Lina Yao

3FP44: GUME: Graphs and User Modalities Enhancement for Long-Tail Multimodal Recommendation

Guojiao Lin, Meng Zhen, Dongjie Wang, Qingqing Long, Yuanchun Zhou and Meng Xiao

4FP44: PACIFIC: Enhancing Sequential Recommendation via Preference-aware Causal Intervention and Counterfactual Data Augmentation

Jinpeng Chen, Huachen Guan, Huan Li, Fan Zhang, Liwei Huang, Guangyao Pang and Xiongnan Jin

5FP44: The Devil is in the Sources! Knowledge enhanced Cross-domain Recommendation in a Information Bottleneck Perspective

Binbin Hu, Weifan Wang, Shuhan Wang, Ziqi Liu, Bin Shen, Yong He and Jiawei Chen

6FP44: AlignGroup: Learning and Aligning Group Consensus with Member Preferences for Group Recommendation

Jinfeng Xu, Zheyu Chen, Jinze Li, Shuo Yang, Hewei Wang and Edith Ngai

7FP44: On Evaluation Metrics for Diversity-enhanced Recommendations

Xueqi Li, Gao Cong, Guoqing Xiao, Yang Xu, Wenjun Jiang and Kenli Li

FP45: Spatio-Temporal Data 2

Room: 110D

Time: Thursday, 13:45 - 15:30

Chair: José Moreira

1FP45: Fast Human Action Recognition via Millimeter Wave Radar Point Cloud Sequences Learning

Tongfei Shao, Zheyu Du, Chuanyou Li, Tianxing Wu and Meng Wang

2FP45: Spatio-Temporal Transformer Network with Physical Knowledge Distillation for Weather Forecasting

Jing He, Junzhong Ji and Minglong Lei

3FP45: Hierarchical Spatio-Temporal Graph Learning Based on Metapath Aggregation for Emergency Supply Forecasting

Li Lin, Kaiwen Xia, Anqi Zheng, Shijie Hu and Shuai Wang

4FP45: Scalable Transformer for High Dimensional Multivariate Time Series Forecasting

Xin Zhou, Weiqing Wang, Wray Buntine, Shilin Qu, Abishek Sriramulu, Weicong Tan and Christoph Bergmeir

5FP45: Hypergraph Hash Learning for Efficient Trajectory Similarity Computation

Lei Li, Yuan Cao, Xiangru Chen, Xue Xu, Zuojin Huang and Yanwei Yu

6FP45: Causality-Aware Spatiotemporal Graph Neural Networks for Spatiotemporal Time Series Imputation

Baoyu Jing, Dawei Zhou, Kan Ren and Carl Yang

7FP45: Higher-order Spatio-temporal Physics-incorporated Graph Neural Network for Multivariate Time Series Imputation

Guojun Liang, Prayag Tiwari, Slawomir Nowaczyk and Stefan Byttner

FP46: Transfer Learning

Room: 120C

Time: Thursday, 13:45 - 15:30

Chair: Sherry Sahebi

1FP46: Enhancing Click-through Rate Prediction in Recommendation Domain with Search Query Representation

Yuening Wang, Man Chen, Yaochen Hu, Wei Guo, Yingxue Zhang, Huifeng Guo, Yong Liu and Mark Coates

2FP46: Teach Harder, Learn Poorer: Rethinking Hard Sample Distillation for GNN-to-MLP Knowledge Distillation

Lirong Wu, Yunfan Liu, Haitao Lin, Yufei Huang and Stan Z. Li

3FP46: Effectively Capturing Label Correlation for Tabular Multi-Label Classification

Sajjad Kamali Siahroudi, Zahra Ahmadi and Daniel Kudenko

4FP46: DIIT: A Domain-Invariant Information Transfer Method for Industrial Cross-Domain Recommendation

Heyuan Huang, Xingyu Lou, Chaochao Chen, Pengxiang Cheng, Yue Xin, Chengwei He, Xiang Liu and Jun Wang

5FP46: Precision Meets Resilience: Cross-Database Generalization with Uncertainty Quantification for Robust Cost Estimation

Shuhuan Fan, Mengshu Hou, Wenwen Ma and Rui Xi

6FP46: Prompt-Based Spatio-Temporal Graph Transfer Learning

Junfeng Hu, Xu Liu, Zhencheng Fan, Yifang Yin, Shili Xiang, Savitha Ramasamy and Roger Zimmermann

7FP46: Adaptive Cascading Network for Continual Test-Time Adaptation

Kien Nguyen, Fengchun Qiao and Xi Peng

FP47: Graph Learning 2

Room: 130

Time: Thursday, 13:45 - 15:30

Chair: Jun Zhuang

1FP47: Spectral-Aware Augmentation for Enhanced Graph Representation Learning

Kaiqi Yang, Haoyu Han, Wei Jin and Hui Liu

2FP47: NC²D: Novel Class Discovery for Node Classification

Yue Hou, Xueyuan Chen, He Zhu, Ruomei Liu, Bowen Shi, Jiaheng Liu, Junran Wu and Ke Xu

3FP47: HC-GST: Heterophily-aware Distribution Consistency based Graph Self-training

Fali Wang, Tianxiang Zhao, Junjie Xu and Suhang Wang

4FP47: GetCom: An Efficient and Generalizable Framework for Community Detection

Kaiyu Xiong, Yucheng Jin, Yun Xiong and Jiawei Zhang

5FP47: A Geometric Perspective for High-Dimensional Multiplex Graphs

Kamel Abdous, Nairouz Mrabah and Mohamed Bouguessa

6FP47: DTFormer: A Transformer-Based Method for Discrete-Time Dynamic Graph Representation Learning

Xi Chen, Yun Xiong, Siwei Zhang, Jiawei Zhang, Yao Zhang, Shiyang Zhou, Xixi Wu, Mingyang Zhang, Tengfei Liu and Weiqiang Wang

7FP47: Federated Node Classification over Distributed Ego-Networks with Secure Contrastive Embedding Sharing

Han Xie, Li Xiong and Carl Yang

ARS14: Systems and Privacy

Room: 120A

Time: Thursday, 13:45 - 15:30

Chair: Hanjia Lyu

1ARS14: LLP-Bench: A Large Scale Tabular Benchmark for Learning from Label Proportions

Anand Brahmabhatt, Mohith Pokala, Rishi Saket and Aravindan Raghuvier

2ARS14: Deep Learning-Based Compressed Sensing for Mobile Device-Derived Sensor Data

Liqiang Xu, Yuuki Nishiyama, Kota Tsubouchi and Kaoru Sezaki

3ARS14: IDENTIFY: Integral Radial and Spatial Fourier Analysis for AI-Generated Image Authentication

Inzamamul Alam, Muhammad Shahid Muneer and Simon S. Woo

4ARS14: Blind-Match: Efficient Homomorphic Encryption-Based 1:N Matching for Privacy-Preserving Biometric Identification

Hyunmin Choi, Jiwon Kim, Chiyong Song, Simon Woo and Hyoungshick Kim

5ARS14: DAMOCRO: A Data Migration Framework Using Online Classification and Reordering

Zhongxin Hu, Kaiyu Li, Xingjian Mao, Jingfeng Pan, Yunfei Peng, Aijun An, Xiaohui Yu and Dariusz Jania

6ARS14: DECO: Cooperative Order Dispatching for On-Demand Delivery with Real-Time Encounter Detection

Yao Lu, Shuai Wang, Yu Yang, Hai Wang, Baoshen Guo, Desheng Zhang, Shuai Wang and Tian He

7ARS14: On the Fly Detection of Root Causes from Observed Data with Application to IT Systems

Lei Zan, Ait-Bachir Ali, Charles K. Assaad, Emilie Devijver and Eric Gaussier

ARS15: LLM, Contrastive Learning, and Others

Room: 120B

Time: Thursday, 13:45 - 15:30

Chair: Mukul Singh

1ARS15: Understanding and Modeling Job Marketplace with Pretrained Language Models

Yaochen Zhu, Liang Wu, Binchi Zhang, Song Wang, Qi Guo, Liangjie Hong, Luke Simon and Jundong Li

2ARS15: Automated Contrastive Learning Strategy Search for Time Series

Baoyu Jing, Yansen Wang, Guoxin Sui, Jing Hong, Jingrui He, Yuqing Yang, Dongsheng Li and Kan Ren

3ARS15: Boosting Entity Recognition by leveraging Cross-task Domain Models for Weak Supervision

Sanjay Agrawal, Srujana Merugu and Vivek Sembium

4ARS15: EXIT: An EXplicit Interest Transfer Framework for Cross-Domain Recommendation

Lei Huang, Weitao Li, Chenrui Zhang, Jinpeng Wang, Xianchun Yi and Sheng Chen

5ARS15: Reinforcement Feature Transformation for Polymer Property Performance Prediction

Xuanming Hu, Dongjie Wang, Wangyang Ying and Yanjie Fu

6ARS15: A Bayesian Multi-Armed Bandit Algorithm for Bid Shading in Online Display Advertising

Mengzhuo Guo, Wuqi Zhang, Congde Yuan, Binfeng Jia, Guoqing Song, Hua Hua, Shuangyang Wang and Qingpeng Zhang

Thursday, 16:00 - 17:30, Session 3

FP48: Graph Neural Networks 2

Room: 100CDE

Time: Thursday, 16:00 - 17:30

Chair: Mohamed Bouguessa

1FP48: Hyperedge Importance Estimation via Identity-aware Hypergraph Attention Network

Yin Chen, Xiaoyang Wang and Chen Chen

2FP48: GraphCBAL: Class-Balanced Active Learning for Graph Neural Networks via Reinforcement Learning

Chengcheng Yu, Jiapeng Zhu and Xiang Li

3FP48: A Mixed-Curvature Graph Diffusion Model

Yujie Wang, Shuo Zhang, Junda Ye, Hao Peng and Li Sun

4FP48: Breaking the Bottleneck on Graphs with Structured State Spaces

Yunchong Song, Siyuan Huang, Jiacheng Cai, Xinbing Wang, Chenghu Zhou and Zhouhan Lin

5FP48: Leveraging Trustworthy Node Attributes for Effective Network Alignment

Dong-Hyuk Seo, Jae-Hwan Lim, Won-Yong Shin and Sang-Wook Kim

FP49: Machine Learning & AI 2

Room: 110BC

Time: Thursday, 16:00 - 17:30

Chair: Vu Nguyen

1FP49: Time is Not Enough: Time-Frequency based Explanation for Time-Series Black-Box Models

Hyunseung Chung, Sumin Jo, Yeonsu Kwon and Edward Choi

2FP49: PSNE: Efficient Spectral Sparsification Algorithms for Scaling Network Embedding

Longlong Lin, Yunfeng Yu, Zihao Wang, Yuying Zhao, Jin Zhao, Tao Jia and Zeli Wang

3FP49: Topological Anonymous Walk Embedding: A New Structural Node Embedding Approach

Yuchen Yan, Yongyi Hu, Qinghai Zhou, Shurang Wu, Dingsu Wang and Hanghang Tong

4FP49: CADIF-OSN: Detecting Cloned Accounts with Missing Profile Attributes on Online Social Networks

Dewei Ning, Yong-Feng Ge and Hua Wang

5FP49: MANA-Net: Mitigating Aggregated Sentiment Homogenization with News Weighting for Enhanced Market Prediction

Mengyu Wang and Tiejun Ma

FP50: Knowledge Representation

Room: 120A

Time: Thursday, 16:00 - 17:30

Chair: Klim Zaporozhets

1FP50: HiQuE: Hierarchical Question Embedding Network for Multimodal Depression Detection

Juho Jung, Chaewon Kang, Jeewoo Yoon, Seungbae Kim and Jinyoung Han

2FP50: Multi-Task Modeling of Student Knowledge and Behavior

Siqian Zhao and Sherry Sahebi

3FP50: Interpretable Triplet Importance for Personalized Ranking

Bowei He and Chen Ma

4FP50: Discovering Graph Generating Dependencies for Property Graph Profiling

Larissa Shimomura, Nikolay Yakovets and George H. L. Fletcher

5FP50: Two Heads are Better than One: Zero-shot Cognitive Reasoning via Multi-LLM Knowledge Fusion

Liang Liu, Dong Zhang, Shoushan Li, Guodong Zhou and Erik Cambria

6FP50: What a Surprise! Computing Rewritten Modules Can Be as Efficient as Computing Subset Modules

Zhihao Yang and Yizheng Zhao

FP51: Data Retrieval, Matching, and Prediction

Room: 120B

Time: Thursday, 16:00 - 17:30

Chair: Bo Pan

1FP51: Regularized Unconstrained Weakly Submodular Maximization

Yanhui Zhu, Samik Basu and A Pavan

2FP51: Retrieval-Oriented Knowledge for Click-Through Rate Prediction

Huanshuo Liu, Bo Chen, Menghui Zhu, Jianghao Lin, Jiarui Qin, Hao Zhang, Yang Yang and Ruiming Tang

3FP51: Efficient Pruned Top-K Subgraph Matching with Topology-Aware Bounds

Linglin Yang, Yuqi Zhou, Yue Pang and Lei Zou

4FP51: A New Framework for Evaluating Faithfulness of Video Moment Retrieval against Multiple Distractors

Nakyeong Yang, Minsung Kim, Seunghyun Yoon, Joongbo Shin and Kyomin Jung

5FP51: Causal Probing for Dual Encoders

Jonas Wallat, Hauke Hinrichs and Avishek Anand

FP52: Robust and Resilient AI

Room: 120C

Time: Thursday, 16:00 - 17:30

Chair: Abhishek Umrawal

1FP52: MalLight: Influence-Aware Coordinated Traffic Signal Control for Traffic Signal Malfunctions

Qinchen Yang, Zejun Xie, Hua Wei, Desheng Zhang and Yu Yang

2FP52: ERASE: Error-Resilient Representation Learning on Graphs for Label Noise Tolerance

Ling-Hao Chen, Yuanshuo Zhang, Taohua Huang, Liangcai Su, Zeyi Lin, Xi Xiao, Xiaobo Xia and Tongliang Liu

3FP52: Discovering Denial Constraints Based on Deep Reinforcement Learning

Lingfeng Bian, Weidong Yang, Jingyi Xu and Zijiang Tan

4FP52: Advancing Certified Robustness of Explanation via Gradient Quantization

Yang Xiao, Zijie Zhang, Yuchen Fang, Da Yan, Yang Zhou, Wei-Shinn Ku and Bo Hui

5FP52: Out-of-Distribution Aware Classification for Tabular Data

Amirhossein Ansari, Ke Wang and Pulei Xiong

6FP52: Boosting Certificate Robustness for Time Series Classification with Efficient Self-Ensemble

Chang George Dong, Zhengyang Li, Liangwei Nathan Zheng, Weitong Chen and Wei Emma Zhang

FP53: AI-Driven Approaches

Room: 130

Time: Thursday, 16:00 - 17:30

Chair: Djordje Gligorijevic

1FP53: DDIPrompt: Drug-Drug Interaction Event Prediction based on Graph Prompt Learning

Yingying Wang, Yun Xiong, Xixi Wu, Xiangguo Sun, Jiawei Zhang and Guangyong Zheng

2FP53: Neural Additive Tensor Decomposition for Sparse Tensors

Dawon Ahn, Uday Singh Saini, Ali Payani and Evangelos E. Papalexakis

3FP53: HeckmanCD: Exploiting Selection Bias in Cognitive Diagnosis

Dongxuan Han, Qi Liu, Siqi Lei, Shiwei Tong and Wei Huang

4FP53: Correcting Biases of Shapley Value Attributions for Informative Machine Learning Model Explanations

Ningsheng Zhao, Jia Yuan Yu, Trang Bui and Krzysztof Dzieciolowski

5FP53: LLM-Empowered Few-Shot Node Classification on Incomplete Graphs with Real Node Degrees

Yun Li, Yi Yang, Jiaqi Zhu, Hui Chen and Hongan Wang

Re3: LLMs applications and Sentiment Analysis

Room: 110A

Time: Thursday, 16:00 - 17:30

Chair: Janet Layne

1Re3: CH-Mits: A Cross-Modal Dataset for User Sentiment Analysis on Chinese Social Media

Juhao Ma, Shuai Xu, Yilin Liu and Xiaoming Fu

2Re3: BioMAISx: A Corpus for Aspect-Based Sentiment Analysis of Media Representations of Agricultural Biotechnologies in Africa

Patricia Chiril, Trevor Spreadbury, Joeva Sean Rock, Brian Dowd-Urbe and David Uminsky

3Re3: Covid19-twitter: A Twitter-based Dataset for Discourse Analysis in Sentence-level Sentiment Classification

Shashank Gupta, Mohamed Reda Bouadjenek, Antonio Robles-Kelly, Tsz-Kwan Lee, Thanh Thi Nguyen, Asef Nazari and Dhananjay Thiruvady

4Re3: An Evaluation Framework for Attributed Information Retrieval using Large Language Models

Hanane Djeddal, Pierre Erbacher, Raouf Toukal, Laure Soulier, Karen Pinel-Sauvagnat, Sophia Katrenko and Lynda Tamine

5Re3: Dataset Generation for Korean Urban Parks Analysis with Large Language Models

Honggu Kim, Minwoo Kang, Hyeyoung Choi and Yungyung Cheong

6Re3: ELF-Gym: Evaluating Large Language Models Generated Features for Tabular Prediction

Yanlin Zhang, Ning Li, Quan Gan, Minjie Wang, Weinan Zhang and David Wipf

7Re3: Refining Wikidata Taxonomy using Large Language Models

Yiwen Peng, Thomas Bonald and Mehwish Alam

8Re3: LeDQA: A Chinese Legal Case Document-based Question Answering Dataset

Bulou Liu, Zhenhao Zhu, Qingyao Ai, Yiqun Liu and Yueyue Wu

Friday, 09:00 - 17:30, Workshops, AnalytiCup, PhD Symposium

Room: Various

Time: Friday, 09:00 - 17:30

Chair: Various

Friday, 09:00 - 17:30, Workshops

Room: Various

Time: Friday, 09:00 - 17:30

Chair: Various

Friday, 09:00 - 17:30, AnalytiCup

Room: Room 110D

Time: Friday, 09:00 - 12:45

Chair: Haixu Liu, Ye Tian, Xiaohua Xin and Da Zheng

Friday, 09:00 - 17:30, PhD Symposium

Room: 110A

Time: Friday, 09:00 - 17:30

Chair: Yanfang (Fanny) Ye

Friday, 09:00 - 10:30, Presentation Session 1

Opening

PS1: Causal discovery from Heterogenous multivariate time series

Lei Zan

PS2: Towards Advancing Text-Based User and Item Representation in Personalized Recommendation

Hanjia Lyu

PS3: Towards Effective Fusion and Forecasting of Multimodal Spatio-temporal Data for Smart Mobility

Chenxing Wang

PS4: Realistic Synthetic Signed Network Generation and Analysis

Aikta Arya

PS5: Submodular Optimization: Variants, Theory and Applications

Yanhui Zhu

Friday, 10:30 - 11:00, Mentoring Session 1 + Coffee Break

Friday, 11:00 - 12:45, Presentation Session 2

PS6: Assessing Human Viewpoints in Theory of Mind for Large Language Models in Open-Ended Questioning

Maryam Amirizani

PS7: Graph-theoretical Approach to Enhance Accuracy of Financial Fraud Detection Using Synthetic Tabular Data Generation

Dae-Young Park

PS8: Evaluating Social Media Reach via Mainstream Media Discourse

Himarsha R. Jayanetti

PS9: Demystifying Financial Texts using Natural Language Processing

Sohom Ghosh

PS10: The Veracity Problem: Detecting False Information and its Propagation on Online Social Media Networks

Sarah Condran

Friday, 12:45 - 13:45, Mentoring Session 2 + Lunch Break

Friday, 13:45 - 15:30, Presentation Session 3

PS12: Leveraging Knowledge Graphs and LLMs to Support and Monitor Legislative Systems

Andrea Colombo

PS13: GeoAI for Natural Disaster Assessment

Saugat Adhikari

PS14: PTM-Mamba: A PTM-Aware Protein Language Model with Bidirectional Gated Mamba Blocks

Zhangzhi Peng

PS15: Towards Seamless User Query to REST API Conversion

Han Xu

PS16: Towards Making Effective Machine Learning Decisions Against Out-of-Distribution Data
Lakpa Tamang

PS17: Towards Trustworthy Knowledge Graph Reasoning: An Uncertainty Aware Perspective
Bo Ni

Friday 15:30 - 16:00, Mentoring Session 2 + Coffee Break

Friday, 16:00 - 16:55, Presentation Session 4

PS18: The 'Path' to Clarity: Identifying False Claims Through a Knowledge Graph Exploration
Wenbo Wang

PS19: Advancing Misinformation Awareness in Recommender Systems for Social Media Information Integrity
Royal Pathak

PS20: Multi-Granularity Modeling in Recommendation: from the Multi-Scenario Perspective
Yuhao Wang

Friday, 16:55 - 17:30, Mentoring Session 4 + Closing
