Day 1: Monday, Dec 9, 2024 Workshops

Day 2: Tu 2024	esday, Dec 10,	08:45 – 09:00		Opening and Welcome (Conference Chairs, PC Chairs, Local Chairs)				
		09:00 – 10:00	Keynote 1: Pr Room CHB	Keynote 1: <u>Preslav Nakov</u> Room CHB				
10:00 -	Tutorial 1 (5	10:00 – 10:30	Coffee break					
17:30	hours in total) Room CHB	10:30 – 12:00	Session A1-1	Session A2-1	Session A3-1	Session A5-1		
			Room CS 5	Room CS 7	Room CS 8	Room Hive		
		12:00 – 13:30	Lunch					
		13:30 – 15:00	Session A4-1	Session A5-2	Session A6-1	Session A3-2		
			Room CS 3	Room CS 4	Room CS 5	Room Hive		
		15:00 – 15:30	Coffee break					
		15:30 – 17:00	Session A1-2	Session A2-2	Session A3-3	Session A6-2		
			Room CS 5	Room CS 7	Room CS 8	Room Hive		
		18:00 – 20:00	Reception (Lo	ocation: TBD))			

Day 3: W 2024	Day 3: Wednesday, Dec 11, 2024		Session A1-3	Session A3-4	Session A5-3	Session A6-3
			Room CS 5	Room CS 7	Room CS 8	Room Hive
		10:00 – 10:30	Coffee break			
10:30 – 12:00	Women Forum Room CHB	10:30 – 12:00	Session A5-4	Session A6-4	Session A1-4	Session A2-3
			Room CS 5	Room CS 7	Room CS 8	Room Hive
		12:00 – 13:30	Lunch			
		13:30 – 14:30	Keynote 3: Be Room CHB	ernhard Schöl	<u>kopf</u>	
		14:30 – 18:00	Organised de	sert trip		
		18:30 – 20:30	Banquet and	Award Cerem	ony (Locat	ion: TBD)

Day 4: Thursday, Dec 12, 2024		09:00 – 10:00	Keynote 4: <u>Claudia Plant</u> Room CHB				
10:00 -	Tutorial 2	10:00 – 10:30	Coffee bre	Coffee break			
12:00	Room CHB	10:30 – 12:00	Session A3-5	Session A5-5	Session A6-5	Session A1-5	
			Room CS 5	Room CS 7	Room CS 8	Room Hive	
		12:00 – 13:30	Lunch				
13:30 – 15:30	Tutorial 3 Room CHB	13:30 – 15:00	Session A1-6	Session A2-5	Session A3-6	Session A2-4	
			Room CS 5	Room CS 7	Room CS 8	Room Hive	
		15:00 – 15:30	Coffee bre	eak			
'		15:30 – 17:30	Panel disc Room Roo	cussion: TB om CHB	A		
		17:30	Conference	ce concludi	ng remarks		

Conference paper presentations

Keynote Lecture: 60 minutes (about 45 minutes for talk and 15 minutes for Q and A)

Main conference regular paper (R): 20 minutes (about 15 minutes for talk and 5 minutes for Q and A)

Main conference short paper (S): 15 minutes (about 10 minutes for talk and 5 minutes for Q and A)

Day 2: December 10, 2024

Session A1-1 Foundations, algorithms, models, and theory of data mining Room CS 5, 10:30-11:40

10:30	DM306	Efficient Network Embedding by Approximate Equitable Partitions	R
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		Giuseppe Squillace, Mirco Tribastone, Max Tschaikowski, and Andrea Vandin	
10:50	DM319	ADOD: Adaptive Density Outlier Detection	R
		Li Qian, Jing Qian, Xin Sun, Wengang Guo, and Christian Böhm	
11:10	DM227	Matrix Profile for Anomaly Detection on Multidimensional Time Series	S
		Chin-Chia Michael Yeh, Audrey Der, Uday Singh Saini, Vivian Lai Zheng, Junpeng Wang, Xin Dai, Zhongfang Zhuang, Yujie Fan, Huiyuan Chen, Prince Aboagye, Liang Wang, Wei Zhang, and Eamonn Keogh	, Yan
11:25	DM271	CL4CO: A Curriculum Training Framework for Graph-based Neural Combinatorial Optimization	S
		Yang Liu, Chuan Zhou, Peng Zhang, Zhao Li, Shuai Zhang, Xixur and Xindong Wu	n Lin,

Session A2-1 Deep learning and statistical methods for data mining Room CS 7, 10:30-11:45

10:30	DM211	Generating Realistic Tabular Data with Large Language Model	R
		Dang Nguyen, Sunil Gupta, Kien Do, Thin Nguyen, and Svetha Venkatesh	
10:50	DM245	HyperTime: A Dynamic Hypergraph Approach for Time Series Classification	R
		Raneen Younis and Zahra Ahmadi	

11:10	DM301	Improving Time Series Encoding with Noise-Aware Self-Supervised Learning and an Efficient Encoder	R
		Duy Nguyen Anh, Trang Tran, Hieu Pham Huy, Le Nguyen Phi, ai Lam Nguyen Minh	nd
11:30	DM295	QUCE: The Minimisation and Quantification of Path-Based Uncertainty for Generative Counterfactual Explanations	S
		Jamie Duell, Monika Seisenberger, Hsuan Fu, and Xiuyi Fan	

Session A3-1 Mining from heterogeneous data sources Room CS 8, 10:30-11:40

10:30	DM216	Graph Community Augmentation with GMM-based Modeling in Latent Space	R
		Shintaro Fukushima and Kenji Yamanishi	
10:50	DM233	Solving Combinatorial Optimization Problem over Graph through QUBO Transformation and Deep Reinforcement Learning	R
		Tianle Pu, Chao Chen, Li Zeng, Shixuan Liu, Rui Sun, and Chang Fan	jun
11:10	DM384	Exploratory Combinatorial Optimization Problem Solving via Gauge Transformation	S
		Tianle Pu, Changjun Fan, Mutian Shen, Yizhou Lu, Li Zeng, Zoha Nussinov, Chao Chen, and Zhong Liu	r
11:25	DM259	2DXformer: Dual Transformers for Wind Power Forecasting with Dual Exogenous Variables	S

rajuan Zhang, Sianar Siang, Fale Fan, nang Fang, and ping Zhang		Yajuan Zhang, Jiahai Jiang, Yule Yan, liang Yang, and ping zhang
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Session A5-1 Data mining for modelling, visualization, personalization, and recommendation Room Hive, 10:30-11:40

10:30	DM410	Contrastive Learning for Adapting Language Model to Sequential Recommendation	R
		Fei-Yao Liang, Wu-Dong Xi, Xing-Xing Xing, Wei Wan, Chang-Do Wang, Min Chen, and Mohsen Guizani	ng
10:50	DM419	Cross-Store Next-Basket Recommendation	R
		Liangchen Ma, Ya Li, Zifeng Mai, Feiyao Liang, Chang-Dong Wa Min Chen, and Mohsen Guizani	ng,
11:10	DM517	DifFaiRec: Generative Fair Recommender with Conditional Diffusion Model	S
		Zhenhao Jiang and Jicong Fan	
11:25	DM663	A Parameter Update Balancing Algorithm for Multi-task Ranking Models in Recommendation Systems	S
		Jun Yuan, Guohao Cai, and Zhenhua Dong	

Room CS 5, 13:30-15:00

Session chair:

13:30	DM366	Designing an attack-defense game: how to increase the robustness of financial transaction models via a competition	R
		Alexey Zaytsev, Alex Natekin, Evgeni Vorsin, Valerii Smirnov, Ge Smirnov, Oleg Sidorshin, Alexander Senin, Alexander Dudin, Ma Kovaleva, and Dmitry Berestnev	
13:50	DM409	Scaling Disk Failure Prediction via Multi-Source Stream Mining	R
		Shujie Han, Zirui Ou, Qun Huang, and Patrick P. C. Lee	
14:10	DM455	APOLLO: Differential Private Online Multi-Sensor Data Prediction with Certified Performance	R
		Honghui Xu, Wei Li, Shaoen Wu, Liang Zhao, and Zhipeng Cai	
14:30	DM559	FGLBA: Enabling Highly-Effective and Stealthy Backdoor Attack on Federated Graph Learning	S
		Qing Lu, Miao Hu, Di Wu, Yipeng Zhou, Mohsen Guizani, and Qu Sheng	an Z.
14:45	DM583	Enhancing Entity Alignment on Probabilistic Knowledge Graphs	S
		Yunfei Li, Lu Chen, Chengfei Liu, Rui Zhou, and Jianxin Li	

Session A5-2 Data mining for modelling, visualization, personalization, and recommendation Room CS 7, 13:30-15:00

13:30	DM277	Transitivity-Encoded Graph Attention Networks for Complementary Item Recommendations	R		
		Jin Shang, Yang Jiao, Chenghuan Guo, Minghao Sun, Yan Gao, C Liu, Michinari Momma, Itetsu Taru, and Yi Sun			

13:50	DM288 SR-PredictAO: Session-based Recommendation with High-Capability Predictor Add-On	R	
		Ruida WANG, Raymond Chi-Wing Wong, and Weile TAN	
14:10	DM331 Enhancing Embeddings Quality with Stacked Gate Click-Through Rate Prediction	Enhancing Embeddings Quality with Stacked Gate for Click-Through Rate Prediction	R
		Caihong Mu, Yunfei Fang, Jialiang Zhou, and Yi Liu	
14:30	DM241	Hi-Gen: Generative Retrieval For Large-Scale Personalized E-commerce Search	S
		YanjingWu Wu, Yinfu Feng, Jian Wang, Wenji Zhou, Yunan Ye, R Xiao, and Jun Xiao	ong
14:45	DM343	Exploitation or Exploration Next? User Behavior Decoupling and Emerging Intent Modeling for Next-Item Recommendation	S
		Nengjun Zhu, Lingdan Sun, Xiangfeng Luo, Jian Cao, Qi Zhang, Xinjiang Lu	and

Session A6-1 Applications of data mining Room CS 8, 13:30-15:00 Session chair:

13:30	DM254	Towards Efficient Ridesharing via Order-Vehicle Pre-Matching Using Attention Mechanism	R
		Zhidan Liu, Jinye Lin, Zhiyu Xia, Chao Chen, and Kaishun Wu	
13:50	DM270	DFDG: Data-Free Dual-Generator Adversarial Distillation for One-Shot Federated Learning	R
		Kangyang Luo, Shuai Wang, Yexuan Fu, Renrong Shao, Xiang Li Yunshi Lan, Ming Gao, and Jinlong Shu	,
14:10	DM359	Debunking Fake News in Online Social Networks without Text	R

		Analysis	
		Xing Su, Jian Yang, Jia Wu, and Zitai Qiu	
14:30	DM266	Goal-guided Generative Prompt Injection Attack on Large Language Models	S
		Chong Zhang, Mingyu Jin, Qinkai Yu, Chengzhi Liu, Haochen Xu and Xiaobo Jin	e,
14:45	DM385	SplitSEE: A Splittable Self-supervised Framework for Single-channel EEG Representation Learning	S
		Rikuto Kotoge, Zheng Chen, Tasuku Kimura, Yasuko Matsubara Takufumi Yanagisawa, Haruhiko Kishima, and Yasushi Sakurai	,

Session A3-2 Mining from heterogeneous data sources

Room Hive, 13:30-16:00

13:30	DM388	ELiCiT: Effective and Lightweight Lossy Compression of Tensors	R
		Jihoon Ko, Taehyung Kwon, Jinhong Jung, and Kijung Shin	
13:50	DM393	LISA: Learning-Integrated Space Partitioning Framework for Traffic Accident Forecasting on Heterogeneous Spatiotemporal Data	R
		Bang An, Xun Zhou, Amin Khezerlou, Nick Street, Jinping Guan, Jun Luo	and
14:10	DM430	Emotional Synchronization for Audio-Driven Talking-Head Generation	R
		Zhao Zhang, Yan Luo, Zhichao Zuo, Richang Hong, Yi Yang, and Meng Wang	

14:30	DM223	MetaSTC: A Meta Spatio-Temporal Learning Paradigm for Traffic Flow Prediction	S
		Kexin Xu, Zhemeng Yu, Yucen Gao, Songjian Zhang, Jun Fang, Xiaofeng Gao, and Guihai Chen	
14:45	DM649	Controllable Visit Trajectory Generation with Spatiotemporal Constraints	S
		Haowen Lin, John Krumm, Cyrus Shahabi, and Li Xiong	

Session A1-2 Foundations, algorithms, models, and theory of data mining Room CS 5, 15:30-17:00

15:30	DM378	Probabilistic Matrix Factorization-based Three-stage Label Completion for Crowdsourcing	R
		Boyi Yang, Liangxiao Jiang, and Wenjun Zhang	
15:50	DM413	HomoMGC: Homophily-enhanced Adaptive Graph Refinement for Multi-view Graph Clustering	R
		Man-Sheng Chen, Xiao-Sha Cai, Chang-Dong Wang, Dong Huan Min Chen, and Mohsen Guizani	g,
16:10	DM442	GADIN: Generative Adversarial Denoise Imputation Network for Incomplete Data	R
		Dong Li, Zhicong Liu, Mingfeng Hu, Baoyan Song, and Xiaohuar Shan	1
16:30	DM325	Generalized Sparse Additive Model with Unknown Link Function	S

		Peipei Yuan, Xinge You, Hong Chen, Xuelin Zhang, and Qinmu Peng	
16:45	DM462	Towards Expressive Graph Representations for Graph Neural Networks	S
		Chengsheng Mao, Liang Yao, and Yuan Luo	

Session A2-2 Deep learning and statistical methods for data mining Room CS 7, 15:30-17:00 **Session chair**:

15:30	DM323	Graph Contrastive Learning with Adversarial Structure Refinement (GCL-ASR)	R
		Jiangwen Chen, Kou Guang, Qiyang Li, and Tan Hao	
15:50	DM412	GQ*: Towards Generalizable Deep Q-Learning for Steiner Tree in Graphs	R
		Wei Huang, Hanchen Wang, Dong Wen, Xuefeng Chen, Wenjie z and Ying Zhang	hang,
16:10	DM315	Hierarchical Explanations for Text Classification Models: Fast and Effective	R
		Zhenyu Nie, Zheng Xiao, Huizhang Luo, Xuan Liu, and Anthon Theodore Chronopoulos	у
16:30	DM449	Channel-Attentive Graph Neural Networks	S
		Tuğrul Hasan Karabulut and İnci M. Baytaş	
16:45	DM580	Cascading Multimodal Feature Enhanced Contrast Learning	S

for Music Recommendation		
	Qimeng Yang, Shijia Wang, Da Guo, Dongjin Yu, Qiang Xiao, Don Wang, and Chuanjiang Luo	ıgjing

Session A3-3 Mining from heterogeneous data sources Room CS 8, 15:30-17:00 **Session chair**:

15:30	DM327	Adaptive Loss-ware Modulation for Multimedia Retrieval	R
		Jian Zhu, Yu Cui, Zeyi Sun, Yuyang Dai, Xi Wang, Lei Liu, Cheng and Li-Rong Dai	Luo,
15:50	DM337	Towards Cross-domain Few-shot Graph Anomaly Detection	R
		Jiazhen Chen, Sichao Fu, Zhibin Zhang, Zheng Ma, Mingbin Fer Tony Wirjanto, and Qinmu Peng	ng,
16:10	DM383	Informative Subgraphs Aware Masked Auto-Encoder in Dynamic Graphs	R
		Pengfei Jiao, Xinxun Zhang, Mengzhou Gao, and Tianpeng Li	
16:30	DM320	A Momentum Contrastive Learning Framework for Query-POI Matching	S
		Yuting Qiang, Jianbin Zheng, Lixia Wu, Haomin Wen, Junhong Land Minhui Deng	₋ou,
16:45	DM371	Multi-modal Sarcasm Detection via Dual Synergetic Perception Graph Convolutional Networks	S

	Xingjie Zhuang and Zhixin Li
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Session A6-2 Applications of data mining Room Hive, 15:30-18:00

15:30	DM690	Dual Cross-Stage Partial Learning for Enhanced Object Detection in Dehazed Images	R
		Jinbiao Zhao, Zhao Zhang, Jiahuan Ren, Haijun Zhang, Zhongq Zhao, and Meng Wang	iu
15:50	DM697	Resource2Box: Learning To Rank Resources in Distributed Search Using Box Embedding	R
		Ulugbek Ergashev, Geon Lee, Kijung Shin, Eduard Dragut, and W Meng	<i>l</i> eiyi
16:10	DM709	ChronoCTI: Mining Knowledge Graph of Temporal Relations among Cyberattack Actions	R
		Md Rayhanur Rahman, Brandon Wroblewski, Quinn Matthews, Brantley Morgan, Timothy Menzies, and Laurie Williams	
16:30	DM749	Addressing Delayed Feedback in Conversion Rate Prediction: A Domain Adaptation Approach	S
		Leisheng Yu, Yanxiao Cai, Lucas Chen, Minxing Zhang, Wei-Yen Li Li, Rui Chen, Soo-Hyun Choi, and Xia Hu	Day,
16:45	DM753	Hypergraph-Enhanced Contrastively Regularized Transformer for Multi-Behavior E-commerce Product Recommendation	S
		Shuiying Liao and P. Y. Mok	

Session A1-3 Foundations, algorithms, models, and theory of data mining Room CS 5, 09:00-10:00

09:00	DM363	Scalable Order-Preserving Pattern Mining	R		
		Ling Li, Wiktor Zuba, Grigorios Loukides, Solon Pissis, and Maria Matsangidou			
09:20	DM546	Efficiently Manipulating Structural Graph Clustering Under Jaccard Similarity	R		
		Chuanyu Zong, Rui Fang, Meng-xiang Wang, Tao Qiu, and Anzho Zhang	en		
09:40	DM617	IIFE: Interaction Information Based Automated Feature Engineering	S		
		Tom Overman, Diego Klabjan, and Jean Utke			

Session A3-4 Mining from heterogeneous data sources Room CS 7, 09:00-10:00 **Session chair**:

09:00	DM322	Adaptive Graph Neural Networks for Cold-start Multimedia Recommendation	
		Zhen Li, Jibin Wang, Zhuo Chen, Kun Wu, Yuanzhen Wei, and Ha Huang	ai
09:20	DM482	EEiF: Efficient Isolated Forest with e Branches for Anomaly Detection	R
		Yifan Zhang, Haolong Xiang, Xuyun Zhang, Xiaolong Xu, Wei Fa Zhang, and Lianyong Qi	n, Qin
09:40	DM605	SemiFDA: Domain Adaptation in Semi-Supervised Federated Learning	S

	Michele Craighero, Giorgio Rossi, Beatrice Rossi, Diego Carrera, Diego Stucchi, Pasqualina Fragneto, and Giacomo Boracchi
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Session A5-3 Data mining for modelling, visualization, personalization, and recommendation Room Hive, 09:00-10:00

Session chair:

09:00	DM438	Early Fire Detection based on Local Morphological Knowledge Matching	R
		Xinzhi Wang, Mengyue Li, Nengjun Zhu, Jiayan Qian, and Zhany Zheng	i
09:20	DM402	RecCoder: Reformulating Sequential Recommendation as Large Language Model-Based Code Completion	R
		Kai-Huang Lai, Wudong Xi, Xingxing Xing, Wei Wan, Chang-Dong Wang, Min Chen, and Mohsen Guizani	9
09:40	DM726	ExoTST: Exogenous-Aware Temporal Sequence Transformer for Time Series Prediction	S
		Kshitij Tayal, Arvind Renganathan, Xiaowei Jia, Vipin Kumar, and Lu	d Dan

Session A6-3 Applications of data mining Room Hive, 09:00-10:00

09:00	DM655	Financial Risk Assessment via Long-term Payment Behavior Sequence Folding	R
		Yiran Qiao, Yateng Tang, Xiang Ao, Qi Yuan, Ziming Liu, Chen Sh and Xuehao Zheng	ien,

09:20	DM743	Adaptive Process-Guided Learning: An Application in Predicting Lake DO Concentrations	R
		Runlong Yu, Chonghao Qiu, Robert Ladwig, Paul Hanson, Yiqun Yanhua Li, and Xiaowei Jia	Xie,
09:40	DM334	Interdependency Matters: Graph Alignment for Multivariate Time Series Anomaly Detection	S
		Yuanyi Wang, Haifeng Sun, Chengsen Wang, Mengde Zhu, Wei Jingyu Wang, Qi Qi, Zirui Zhuang, and Jianxin Liao	Tang,

Session A5-4 Data mining for modelling, visualization, personalization, and recommendation Room CS 5, 10:30-11:35

10:30	DM367	Continuous Exact Explanations of Neural Networks			
		Alice Dethise and Marco Canini			
10:50	DM414	Periodic Prompt on Dynamic Heterogeneous Graph for Next Basket Recommendation	S		
		Ru-Bin Li, Man-Sheng Chen, Xin-Yu Ding, Chang-Dong Wang, Sil Xie, Shuangyin Liu, Min Chen, and Mohsen Guizani	nong		
11:05	DM454	A Condensed Transition Graph Framework for Zero-shot Link Prediction with Large Language Models	S		
		Mingchen Li, Chen Ling, rui Zhang, and Liang Zhao			
11:20	DM495	Influence-aware Group Recommendation for Social Media Propagation	S		
		Chengkun He, Xiangmin Zhou, Chen Wang, Longbing Cao, Jie S and Zahir Tari	Shao,		

Session A6-4 Applications of data mining Room CS 7, 10:30-11:40

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10:30	DM373	Utilitarian Online Learning from Open-World Soft Sensing			
		Heng Lian, Yu Huang, Xingquan Zhu, and Yi He			
10:50	DM641	CounterFair: Group Counterfactuals for Bias Detection, Mitigation and Subgroup Identification	R		
		Alejandro Kuratomi, Zed Lee, Panayiotis Tsaparas, Guilherme D Junior, Evaggelia Pitoura, Tony Lindgren, and Panagiotis Papap			
11:10	DM573	D-Cube : Exploiting Hyper-Features of Diffusion Model for Robust Medical Classification	S		
		Minhee Jang, Juheon Son, Thanaporn Viriyasaranon, Junho Kir and Jang-hwan Choi	n,		
11:25	DM648	Survival Analysis with Multiple Noisy Labels	S		
		Donna Tjandra and Jenna Wiens			

 $\textbf{Session A1-4} \ \ \textbf{Foundations, algorithms, models, and theory of data mining} \ \ \textbf{Room CS 8, 10:30-11:40}$

10:30	DM488	Margin-bounded Confidence Scores for Out-of-Distribution Detection	R
		Lakpa Tamang, Mohamed Reda Bouadjenek, Richard Dazeley, a Sunil Aryal	ınd

10:50	DM515	Fast and Accurate Triangle Counting in Graph Streams Using Predictions	R
		Cristian Boldrin and Fabio Vandin	
11:10	DM390	Accurate and Fast Estimation of Temporal Motifs using Path Sampling	S
		Yunjie Pan, Omkar Bhalerao, C. Seshadhri, and Nishil Talati	
11:25	DM394	DynoGraph: Dynamic Graph Construction for Nonlinear Dimensionality Reduction	S
		Li Qian, Claudia Plant, Yalan Qin, Jing Qian, and Christian Böhm	1

Session A2-3 Deep learning and statistical methods for data mining Room Hive, 10:30-11:45

10:30	DM461	Combining Self-Supervision and Privileged Information for Representation Learning from Tabular Data	R
		Haoyu Yang, Gyorgy Simon, Michael Steinbach, Genevieve Melt and Vipin Kumar	on,
10:50	DM510	Towards Dynamic University Course Timetabling Problem: An Automated Approach Augmented via Reinforcement Learning	R
	Yanan Xiao, XiangLin Li, Lu Jiang, Pengfei Wang, Kaidi Wang, Luo		nd Na

11:10	DM591	HFGNN: Efficient Graph Neural Networks using Hub-Fringe Structures	R
		Pak Lon Ip, Sheng Hui Zhang, Xue Kai Wei, Tsz Nam Chan, and Leong Hou U	
11:30	DM628	Unsupervised Domain Adaptation for Action Recognition via Self-Ensembling and Conditional Embedding Alignment	S
		Indrajeet Ghosh, Garvit Chugh, Abu Zaher Md Faridee, and Nirm Roy	nalya

Day 4: December 12, 2024

Session A3-5 Mining from heterogeneous data sources Room CS 5, 10:30-11:40 Session chair:

10:30	DM436	High-Fidelity Diffusion Editor for Zero-Shot Text-Guided Video Editing	R
		Yan Luo, Zhichao Zuo, Zhao Zhang, Zhongqiu Zhao, Haijun Zha and Richang Hong	ng,
10:50	DM475	Align Along Time and Space: A Graph Latent Diffusion Model for Traffic Dynamics Prediction	R
		Yuhang Liu, Yingxue Zhang, Xin Zhang, Yu Yang, Yiqun Xie, Sah Ghanipoor Machiani, Yanhua Li, and Jun Luo	ar
11:10	DM483	Futures Quantitative Investment with Heterogeneous Continual Graph Neural Network	S

		Zhizhong Tan, Min Hu, Bin Liu, and Guosheng Yin	
11:25	DM497	Multi-Hyperbolic Space-based Heterogeneous Graph Attention Network	S
		Jongmin Park, Seunghoon Han, Jong-Ryul Lee, and Sungsu Lim	1

Session A5-5 Data mining for modelling, visualization, personalization, and recommendation Room CS 7, 10:30-11:25

10:30	DM747	DISCO: A Hierarchical Disentangled Cognitive Diagnosis Framework for Interpretable Job Recommendation	R
		Xiaoshan Yu, Chuan Qin, Qi Zhang, Chen Zhu, Haiping Ma, Xing Zhang, and Hengshu Zhu	yi
10:50	DM778	Bi-level User Modeling for Deep Recommender Systems	R
		Yejing Wang, Dong Xu, Xiangyu Zhao, Zhiren Mao, Peng Xiang, Yan, Yao Hu, Zijian Zhang, Xuetao Wei, and Qidong Liu	Ling
11:10	DM708	An Explainable Recommender System by Integrating Graph Neural Networks and User Reviews	S
		Sahar Batmani, Parham Moradi, Narges Haidari, and Mahdi Jal	ili

Room CS 8, 10:30-11:25

Session chair:

10:30	DM806	A Learned Approach to Index Algorithm Selection	R
		Chaohong Ma, Xiaohui Yu, Yifan Li, Aishan Maoliniyazi, and Xia Meng	ofeng
10:50	DM772	TAN: A Tripartite Alignment Network Enhancing Composed Image Retrieval with Momentum Distillation	R
		Yongquan Wan, Erhe Yang, Cairong Yan, Guobing Zou, and Bofe Zhang	eng
11:10	DM604	AnomalyLLM: Few-shot Anomaly Edge Detection for Dynamic Graphs using Large Language Models	S
		Shuo Liu, Yao Di, Lanting Fang, Zhetao Li, Wenbin Li, Kaiyu Feng Xiaowen Ji, and Jingping Bi],

Session A1-5 Foundations, algorithms, models, and theory of data mining Room Hive, 10:30-11:40

10:30	DM667	Scalable Graph Classification via Random Walk Fingerprints	R
		Peiyan Li, Honglian Wang, and Christian Böhm	
10:50	DM717	Warm-Starting Contextual Bandits under Latent Reward Scaling	R
		Bastian Oetomo, R. Malinga Perera, Renata Borovica-Gajic, and Benjamin I. P. Rubinstein	
11:10	DM446	Constructing \$\epsilon\$-Constrained Sparsified \$\beta^s\$-Complexes using Space Partitioning Trees	S
		Rohit Singh and Philip Wilsey	

11:25	DM326	SHADE: Deep Density-based Clustering	S
		Anna Beer, Pascal Weber, Lukas Miklautz, Collin Leiber, Walid D Christian Böhm, and Claudia Plant	urani,

Session A1-6 Foundations, algorithms, models, and theory of data mining Room CS 5, 13:30-14:55 **Session chair**:

13:30	DM776	PROMIPL:A Probabilistic Generative Model for Multi-Instance Partial-Label Learning	R
		Yin-Fang Yang, Wei Tang, and Min-Ling Zhang	
13:50	DM783	A Novel Shadow Variable Catcher for Addressing Selection Bias in Recommendation Systems	R
		Qingfeng Chen, Boquan Wei, Debo Cheng, Jiuyong Li, Lin Liu, ai Shichao Zhang	nd
14:10	DM672	Reducing Unfairness in Distributed Community Detection	S
		Hao Zhang, Malith Jayaweera, Bin Ren, Yanzhi Wang, and Such Soundarajan	eta
14:25	DM780	An Efficient Graph Autoencoder with Lightweight Desmoothing Decoder and Long-Range Modeling	S
		Jinyong Wen, Tao Zhang, Chunxia Zhang, Shiming Xiang, Chunl Pan	nong
14:40	DM798	MoRE-LLM: Mixture of Rule Experts Guided by a Large	S

	Language Model	
	Alexander Koebler, Ingo Thon, and Florian Buettner	

Session A2-5 Deep learning and statistical methods for data mining Room CS 7, 13:30-15:00

13:30	DM634	A Bayesian Hierarchical Model for Orthogonal Tucker Decomposition with Oblivious Tensor Compression	R
		Matthew Pietrosanu, Bei Jiang, and Linglong Kong	
13:50	DM734	Normalizing self-supervised learning for provably reliable Change Point Detection	R
		Alexandra Bazarova, Evgenia Romanenkova, and Alexey Zaytse	? ∨
14:10	DM790	EMIT - Event Based Masked Auto Encoding for Irregular Time Series	R
		Hrishikesh Patel, Ruihong Qiu, Adam Irwin, Shazia Sadiq, and S Wang	en
14:30	DM809	Enhancing Distribution and Label Consistency for Graph Out-of-Distribution Generalization	S
		Song Wang, Xiaodong Yang, Rashidul Islam, Huiyuan Chen, Mir Xu, Jundong Li, and Yiwei Cai	nghua
14:45	DM795	Handling Non-IID Data in Federated Learning Using Metaheuristic Optimization Techniques	S
		Amin Birashk, Sadaf MD Halim, and Latifur Khan	

Session A3-6 Mining from heterogeneous data sources

Room CS 8, 13:30-15:00

Session chair:

13:30	DM713	Traffic Pattern Sharing for Federated Traffic Flow Prediction with Personalization	R
		Hang Zhou, Wentao Yu, Sheng Wan, Yongxin Tong, Tianlong Gu Chen Gong	ı, and
13:50	DM745	TROPICAL: Transformer-based Hypergraph Learning for Camouflaged Fraudsters Detection	R
		Venus Haghighi, Behnaz Soltani, Nasrin Shabani, Jia Wu, Yang Zhang, Lina Yao, Quan Z. Sheng, and Jian Yang	
14:10	DM760	MOStream: A Modular and Self-Optimizing Data Stream Clustering Algorithm	R
		Zhengru Wang, Xin Wang, and Shuhao Zhang	
14:30	DM467	Weakly-Supervised Graph Classification with Even a Single Key Subgraph Per Class	S
		Lu Zhang, Chenbo Zhang, Jihong Guan, and Shuigeng Zhou	
14:45	DM681	Graph Rhythm Network: Beyond Energy Modeling for Deep Graph Neural Networks	S
		Yufei Jin and Xingquan Zhu	

Session A2-4 Deep learning and statistical methods for data mining Room Hive, 13:30-15:00

13:30	DM610	A Bayesian Hierarchical Model for Orthogonal Tucker Decomposition with Oblivious Tensor Compression	R
		Matthew Pietrosanu, Bei Jiang, and Linglong Kong	
13:50	DM611	Normalizing self-supervised learning for provably reliable Change Point Detection	R
		Alexandra Bazarova, Evgenia Romanenkova, and Alexey Zaytse	eV
14:10	DM729	Enhancing Distribution and Label Consistency for Graph Out-of-Distribution Generalization	S
		Song Wang, Xiaodong Yang, Rashidul Islam, Huiyuan Chen, Mir Xu, Jundong Li, and Yiwei Cai	nghua
14:25	DM741	CAKD: A Correlation-Aware Knowledge Distillation Framework Based on Decoupling Kullback-Leibler Divergence	S
		Zao Zhang, Huaming Chen, Pei Ning, Nan Yang, and Dong Yuan	1
14:40	DM812	CAKD: A Correlation-Aware Knowledge Distillation Framework Based on Decoupling Kullback-Leibler Divergence	S
		Zao Zhang, Huaming Chen, Pei Ning, and Dong Yuan	