

Paper Title	Authors
<b>SESSION 1</b>	
<b>Tuesday, August 16, 10:00 AM-12:00 PM, Room 1, (Graphs and Networks)</b>	
Streaming Graph Neural Networks with Generative Replay	Junshan Wang (Alibaba)*; Wenhao Zhu (Peking University); Guojie Song (Peking University); Liang Wang (Alibaba group)
Graph Rationalization with Environment-based Augmentations	Gang Liu (University of Notre Dame)*; Tong Zhao (Snap Inc.); JIAXIN XU (UNIVERSITY OF NOTRE DAME); Tengfei Luo (University of Notre Dame); Meng Jiang (University of Notre Dame)
Causal Attention for Graph Classification	Yongduo Sui (University of Science and Technology of China)*; Xiang Wang (National University of Singapore); Jiancan Wu (University of Science and Technology of China); Min Lin (University of Montreal); Xiangnan He (University of Science and Technology of
Minimizing Congestion for Balanced Dominators	Yosuke Mizutani (University of Utah)*; Annie Staker (University of Utah); Blair D Sullivan (University of Utah)
SMORE: Knowledge Graph Completion and Multi-hop Reasoning in Massive Knowledge Graphs	Hongyu Ren (Stanford University)*; Hanjun Dai (Google Brain); Bo Dai (Google Brain); Xinyun Chen (UC Berkeley); Denny Zhou (Google Brain); Jure Leskovec (Stanford University); Dale Schuurmans (Google / University of Alberta)
FlowGEN: A Generative Model for Flow Graphs	Ambuj K Singh (UCSB); Arlei Silva (Rice University); Furkan Kocayusufoglu (UC, Santa Barbara)*
<b>Tuesday, August 16, 10:00 AM-12:00 PM, Room 2, (Interdisciplinary Applications: Biology, Climate and Physics)</b>	
Graph-in-Graph Network for Automatic Gene Ontology Description Generation	Fenglin Liu (Peking University)*; Bang Yang (Peking University); Xian Wu (Tencent Medical AI Lab); Shen Ge (Tencent Medical AI Lab); Adelaide Chambers (University of Washington); Sheng Wang (Paul G. Allen School of Computer Science, University of Washing
Deep Representations for Time-varying Brain Datasets	Sikun Lin (University of California, Santa Barbara)*; Shuyun Tang (University of California, Santa Barbara); Ambuj K Singh (UCSB); Scott T Grafton (UC Santa Barbara)
Geometric Graph Representation Learning on Protein Structures	Sarp Aykent (Auburn University)*; Tian Xia (Auburn University)
RetroGraph: Retrosynthetic Planning with Graph Search	Shufang Xie (Gaoling School of Artificial Intelligence, Renmin University of China)*; Peng Han (KAUST); Yingce Xia (Microsoft Research Asia); Lijun Wu (Microsoft Research); Tao Qin (Microsoft Research Asia); Chenjuan Guo (Aalborg University); Bin Yang (Aa
KRATOS: Context-aware cell type classification and interpretation using joint dimensionality reduction and clustering	Zihan Zhou (Purdue University); Zijia Du (Shanghai Jiao Tong University); Somali Chaterji (Purdue University)*
Dense feature tracking of atmospheric winds with deep optical flow	Thomas J Vandal (NASA Ames)*; Kate Duffy (NASA Ames); Akira Sewnath (NASA Goddard Space Flight Center); Will McCarty (NASA); Ramakrishna Nemani (NASA Ames Research Center)
<b>Tuesday, August 16, 10:00 AM-12:00 PM, Room 3, (Causal Analysis and Explainability)</b>	
Causal Discovery on Non-Euclidean Data	Jing Yang (Heifei University of Technology); Kai Xie (Heifei University of Technology); Ning An (Hefei University of Technology)*
Improving Data-driven Heterogeneous Treatment Effect Estimation Under Structure Uncertainty	Christopher Tran (University of Illinois at Chicago)*; Elena Zheleva (University of Illinois at Chicago)
ML4S: Learning Causal Skeleton from Vicinal Graphs	Pingchuan Ma (HKUST)*; Rui Ding (Microsoft Research); Haoyue Dai (Carnegie Mellon University); Yuanyuan Jiang (Renmin University of China); Shuai Wang (HKUST); Shi Han (Microsoft Research); Dongmei Zhang (Microsoft Research Asia)
Discovering Invariant and Changing Mechanisms from Data	Sarah Mameche (CISPA Helmholtz-Zentrum für Informationssicherheit)*; David Kaltenpoth (CISPA Helmholtz Center for Information Security); Jilles Vreeken (CISPA Helmholtz Center for Information Security)
Variational Flow Graphical Model	Shaogang Ren (Baidu Research, USA)*; Belhal Karimi (Baidu Research); Dingcheng Li (Baidu Research); Ping Li (Baidu Research)
Framing Algorithmic Recourse for Anomaly Detection	Debanjan Datta (Virginia Tech)*; Feng Chen (UT Dallas); Naren Ramakrishnan (Virginia Tech)
<b>Tuesday, August 16, 10:00 AM-12:00 PM, Room 4, (Data Privacy, Ethics and Data Science for Society)</b>	
What Makes Your Data Unavailable To Deep Learning?	Da Yu (Sun Yat-sen University)*; Huishuai Zhang (Microsoft Research Asia); Wei Chen (Chinese Academy of Sciences); Jian Yin (Sun Yat-Sen University); Tie-Yan Liu (Microsoft Research)
MetaV: A Meta-Verifier Approach to Task-Agnostic Model Fingerprinting	Xudong Pan (Fudan University)*; Yifan Yan (Fudan University); Mi Zhang (Fudan University); Min Yang (Fudan University)
Scalable Differentially Private Clustering via Hierarchically Separated Trees	Vincent Cohen-Addad (Google); Alessandro Epasto (Google)*; Silvio Lattanzi (Google); Vahab Mirrokni (Google); andres munoz (Google); David Saulpic (LIP6); Chris Schwiegelshohn (Aarhus University); Sergei Vassilvitskii (Google)
MetroGAN: Simulating Urban Morphology with Generative Adversarial Network	Weiyu Zhang (Institute of Remote Sensing and Geographic Information System, Peking University); Yiyang Ma (Wangxuan Institute of Computer Technology, Peking University); Di Zhu (University of Minnesota, Twin Cities); Lei Dong (PKU); Yu Liu (Peking Univers
A Nearly-Linear Time Algorithm for Minimizing Risk of Conflict in Social Networks	Liwang Zhu (Fudan University)*; Zhongzhi Zhang (Fudan University)
<b>Tuesday, August 16, 10:00 AM - 12:00 PM, Room 5, (Adversarial Learning and Information Security)</b>	
A Model-Agnostic Approach to Differentially Private Topic Mining	Han Wang (Illinois Institute of Technology); Jayashree Sharma (Illinois Institute of Technology); Shuya Feng (Illinois Institute of Technology); Kai Shu (Illinois Institute of Technology); Yuan Hong (Illinois Institute of Technology)*
Model Integrity Authentication in Gradient Boosting Machine	Weijie Zhao (Rochester Institute of Technology)*; Yingjie Lao (Clemson University); Ping Li (Baidu)
Pairwise Adversarial Training for Unsupervised Class-imbalanced Domain Adaptation	WEILI SHI (University of Georgia)*; Ronghang Zhu (University of Georgia); Sheng Li (University of Georgia)
LeapAttack: Hard-Label Adversarial Attack on Text via Gradient-Based Optimization	Muchao Ye (The Pennsylvania State University)*; Jinghui Chen (Penn State University); Chenglin Miao (University of Georgia); Ting Wang (Penn State); Fenglong Ma (Pennsylvania State University)
Bilateral Dependency Optimization: Defending Against Model-inversion Attacks	Xiong Peng (NUDT)*; Feng Liu (UTS/RIKEN); Jingfeng Zhang (RIKEN); long lan (NUDT); Junjie Ye (PolyU Hong Kong); Tongliang Liu (The University of Sydney); Bo Han (HKBU / RIKEN)

**SESSION 2****Tuesday, August 16, 1:30 PM-3:30 PM, Room 1, (Graphs and Networks)**

Task-Adaptive Few-shot Node Classification  
Core-periphery Models for Hypergraphs

Geometer: Graph Few-Shot Class-Incremental Learning via Prototype Representation  
Avoiding Biases due to Similarity Assumptions in Node Embeddings

Repository Embedding via Heterogeneous Graph Adversarial Contrastive Learning  
Towards a Native Quantum Paradigm for Graph Representation Learning: a Sampling-based Recurrent Embedding Approach

Song Wang (University of Virginia); Kaize Ding (Arizona State University); Chuxu Zhang (Brandeis University); Chen Chen (University of Virginia);  
Jundong Li (University of Virginia)\*  
Marios Papachristou (Cornell University)\*; Jon Kleinberg (Cornell)  
Bin Lu (Shanghai Jiao Tong University); Xiaoying Gan (Shanghai Jiao Tong University)\*; Lina Yang (Shanghai Jiao Tong University); Weinan Zhang (Shanghai Jiao Tong University); Luoyi Fu (Shanghai Jiao Tong University); Xinbing Wang (Shanghai Jiao Tong University)  
Deepayan Chakrabarti (University of Texas at Austin)\*  
Yiyue Qian (University of Notre Dame)\*; Yiming Zhang (Case Western Reserve University); Qianlong Wen (University of Notre Dame); Yanfang Ye (University of Notre Dame); Chuxu Zhang (Brandeis University)

Ge Yan (Shanghai Jiaotong University); Yehui Tang (Shanghai Jiao Tong University); Junchi Yan (Shanghai Jiao Tong University)\*

**Tuesday, August 16, 1:30 PM-3:30 PM, Room 2, (Interdisciplinary Applications: Medicine, Humanities and Social Good)**

Fair and interpretable models for survival analysis  
SIPF: Sampling Method for Inverse Protein Folding  
Antibody Complementarity Determining Regions (CDRs) design using Constrained Energy Model  
Deconfounding Actor-Critic Network with Policy Adaptation for Dynamic Treatment Regimes  
Predicting Opinion Dynamics via Sociologically-Informed Neural Networks  
Incremental Cognitive Diagnosis for Intelligent Education

Md Mahmudur Rahman (University of Maryland Baltimore County); Sanjay Purushotham (University of Maryland, Baltimore County)\*  
Tianfan Fu (Georgia Institute of Technology)\*; Jimeng Sun (UIUC)  
Tianfan Fu (Georgia Institute of Technology)\*; Jimeng Sun (UIUC)  
Changchang Yin (The Ohio State University)\*; Ruoqi Liu (The Ohio State University); Jeffrey Caterino (The Ohio State University); Ping Zhang (The Ohio State University)  
Maya Okawa (NTT)\*; Tomoharu Iwata (NTT)  
Shiwei Tong (University of Science and Technology of China (USTC))\*; Jiayu Liu (University of Science and Technology of China); Yuting Hong (ustc);  
Zhenya Huang (University of Science and Technology of China); Le Wu (Hefei University of Technology); Qi Li

**Tuesday, August 16, 1:30 PM-3:30 PM, Room 3, (Anomaly Detection)**

Detecting Cash-out Users via Dense Subgraphs  
Scaling Time Series Anomaly Detection to Trillions of Datapoints and Ultra-fast Arriving Data Streams  
Adaptive Model Pooling for Online Deep Anomaly Detection from a Complex Evolving Data Stream  
Subset Node Anomaly Tracking over Large Dynamic Graphs  
PAC-Wrap: Semi-Supervised PAC Anomaly Detection  
Toward Learning Robust and Invariant Representations with Alignment Regularization and Data Augmentation

Yingsheng Ji (Tsinghua University)\*; zheng zhang (China Etek Service & Technology); xinlei tang (Fudan university); Jiachen Shen (China Etek Service & Technology Co.,Ltd.); Xi Zhang (Beijing University of Posts and Telecommunications); Guangwen Yang (Tsin  
Yue Lu (University of California, Riverside)\*; Renjie Wu (University of California, Riverside); Abdullah Mueen (University of New Mexico, USA);  
Maria A. Zuluaga (EURECOM); Eamonn Keogh (UC Riverside)  
Susik Yoon (UIUC); Youngjun Lee (KAIST); Jae-Gil Lee (KAIST)\*; Byung Suk Lee (University of Vermont)  
Xingzhi Guo (Stony Brook University)\*; Baojian Zhou (Fudan University); Steven Skiena (Stony Brook University)  
Shuo Li (University of Pennsylvania)\*; Xiayan Ji (University of Pennsylvania); Edgar Dobriban (University of Pennsylvania); Oleg Sokolsky (University of Pennsylvania); Insup Lee (University of Pennsylvania)  
Haohan Wang (Carnegie Mellon University)\*; Zeyi Huang (Carnegie Mellon University); Xindi Wu (Carnegie Mellon University); Eric Xing (MBZUAI, CMU, and Petuum Inc.)

**Tuesday, August 16, 1:30 PM-3:30 PM, Room 4, (Spatio-Temporal Data)**

Modeling Network-level Traffic Flow Transitions on Sparse Data  
Selective Cross-city Transfer Learning for Traffic Prediction via Source City Region Re-weighting  
Semisupervised Drifted Stream Learning with Short Lookback  
Human mobility prediction with causal and spatial-constrained multi-task network  
TrajGAT: A Graph-based Long-term Dependency Modeling Approach for Trajectory Similarity Computation  
Spatio-Temporal Trajectory Similarity Learning in Road Networks

Xiaoliang Lei (Xi'an Jiaotong University); hao mei (New jersey institute of technology); Bin Shi (Xi'an jiaotong University); Hua Wei (NJIT)\*  
Yilun Jin (The Hong Kong University of Science and Technology)\*; Kai Chen (HKUST); Qiang Yang (Hong Kong UST)  
Weijieying Ren (university of Central Florida); Pengyang Wang (University of Macau); Xiaolin Li (Nanjing University); Charles E Hughes (University of Central Florida); Yanjie Fu (University of Central Florida)\*  
Zongyuan Huang (Shanghai Jiao Tong University); Shengyuan Xu (Shanghai Jiao Tong University); Menghan Wang (ebay); Hansi Wu (eBay Inc.);  
Yaohui Jin (Shanghai Jiao Tong University); Yanyan Xu (Shanghai Jiao Tong University)\*  
Di Yao (Institute of Computing Technology, Chinese Academy of Sciences)\*; Haonan Hu (Institute of Computing Technology, Chinese Academy of Sciences); Lun Du (Microsoft Research); Gao Cong (Nanyang Technological Univesity); Shi Han (Microsoft Research); Ji  
Ziquan Fang (Zhejiang University); Yuntao Du (Zhejiang University); xinjun zhu (zhejiang university); Danlei Hu (Zhejiang University); Lu Chen (Zhejiang University); Yunjun Gao (Zhejiang University)\*; Christian S Jensen (Aalborg University)

**SESSION 3****Tuesday, August 16, 4:00 PM-6:00 PM, Room 1, (Classification and Clustering)**

Contrastive Learning with Complex Heterogeneity

Lecheng Zheng (University of Illinois at Urbana-Champaign)\*; Jinjun Xiong (University at Buffalo); Yada Zhu (IBM); Jingrui He (University of Illinois at Urbana-Champaign)

Delayed Feedback Modeling with a Time Window Assumption

Partial Label Learning with Semantic Label Representations  
A Generalized Backward-Compatibility Metric

On missing labels, long-tails and propensities in extreme multi-label classification  
HyperAid: Denoising in hyperbolic spaces for tree-fitting and hierarchical clustering

Shota Yasui (Cyberagent)\*; Masahiro Kato (Cyberagent / The University of Tokyo)

Shuo He (University of Electronic Science and Technology of China); Lei Feng (Chongqing University); Fengmao Lv (Southwest Jiaotong University);  
Wen Li (University of Electronic Science and Technology of China); Guowu Yang (Big Data Research Center and Sc  
Tomoya Sakai (IBM)\*

Erik Schultheis (Aalto University); Marek Wydmuch (Poznan University of Technology); Rohit Babbar (Aalto University); Krzysztof Dembczynski  
(Poznan University of Technology)\*

Eli Chien (UIUC)\*; Puoya Tabaghi (University of Illinois at Urbana-Champaign); Olgica Milenkovic (University of Illinois UC)

#### Tuesday, August 16, 4:00 PM-6:00 PM, Room 2, (Deep Learning Applications)

ERNet: Unsupervised Collective Extraction and Registration in Neuroimaging Data

Learned Token Reduction for Efficient Transformer Inference  
Comprehensive Fair Meta-learned Recommender System

Compute Like Humans: Interpretable Step-by-step Symbolic Computation with Deep Neural Network

Group-wise Reinforcement Feature Generation for Optimal and Explainable Representation Space Reconstruction

Probing Schema Linking Information from Pre-trained Language Models for Text-to-SQL Parsing

Yao Su (Worcester Polytechnic Institute)\*; Zhentian Qian (Worcester Polytechnic Institute); Lifang He (Lehigh University); Xiangnan Kong (Worcester Polytechnic Institute)

Sehoon Kim (University of California, Berkeley)\*; Sheng Shen (UC Berkeley); David Thorsley (Samsung Semiconductor, Inc.); Amir Gholami (UC Berkeley); Woosuk Kwon (UC Berkeley); Joseph Hassoun (Samsung Semiconductor, Inc.); Kurt Keutzer (EECS, UC Berkeley)

Tianxin Wei (University of Illinois Urbana Champaign)\*; Jingrui He (University of Illinois at Urbana-Champaign)

Shuai Peng (Peking University)\*; Di Fu (Bytedance); Yong CAO (Bytedance Inc.); Yijun Liang (ByteDance); Gu Xu (Bytedance Inc.); Liangcai Gao (Peking University); Zhi Tang (Peking University)

Dongjie Wang (University of Central Florida)\*; Yanjie Fu (University of Central Florida); Kunpeng Liu (University of Central Florida); Xiaolin Li (Nanjing University); Yan Solihin (University of Central Florida)

Lihan Wang (Chinese Academy of Sciences)\*; Bowen Qin (Chinese Academy of Sciences); Binyuan Hui (Alibaba Group); Bowen Li (University of Edinburgh); Min Yang (Chinese Academy of Sciences); Bailin Wang (University of Edinburgh); Binhua Li (Alibaba Group)

#### Tuesday, August 16, 4:00 PM-6:00 PM, Room 3, (Deep Learning: New Architectures and Models)

Demystify Hyperparameters for Stochastic Optimization with Transferable Representations  
Global Self-Attention as a Replacement for Graph Convolution  
ROLAND: Graph Learning Framework for Dynamic Graphs

Multi-fidelity Hierarchical Neural Processes

Graph Neural Networks with Node-wise Architecture

Improving Social Network Embedding via New Second-Order Continuous Graph Neural Networks

Jianhui Sun (University of Virginia)\*; Mengdi Huai (University of Virginia); Kishlay Jha (University of Virginia); Aidong Zhang (University of Virginia)  
Md Shamim Hussain (Rensselaer Polytechnic Institute)\*; Mohammed Zaki (RPI); Dharmashankar Subramanian (IBM Research)  
Jiaxuan You (Stanford University)\*; Tianyu Du (Stanford University); Jure Leskovec (Stanford University)

Dongxia Wu (University of California, San Diego)\*; Matteo Chinazzi (Northeastern University); Alessandro Vespignani (Northeastern University);  
Yian Ma (UCSD); Rose Yu (University of California, San Diego)

Zhen Wang (Alibaba Group)\*; Yaliang Li (Alibaba Group); Zhewei Wei (Renmin University of China); Weirui Kuang (Alibaba Group); Bolin Ding ("Data Analytics and Intelligence Lab, Alibaba Group")

Yanfu Zhang (University of Pittsburgh); Shangqian Gao (University of Pittsburgh); Jian Pei (Simon Fraser University); Heng Huang (University of Pittsburgh)\*

#### Tuesday, August 16, 4:00 PM-6:00 PM, Room 4, (Ethics, Explainability and Society)

Explaining Recurrent Neural Networks by Learning Automata with Adaptive States  
Optimal Interpretable Clustering Using Oblique Decision Trees

Fair Representation Learning: An Alternative to Mutual Information

Fair Labelled Clustering

Learning Fair Representation via Distributional Contrastive Disentanglement

Adaptive Fairness-Aware Online Meta-Learning for Changing Environments

Dat Hong (The University of Iowa); Alberto Segre (The University of Iowa); Tong Wang (University of Iowa)\*

Magzhan Gabidolla (University of California, Merced)\*; Miguel A Carreira-Perpinan (UC Merced)

Ji Liu (Nanjing University); Zenan Li (Nanjing University); Yuan Yao (Nanjing University)\*; Feng Xu (Nanjing University); Xiaoxing Ma (Nanjing University); Miao Xu (University of Queensland); Hanghang Tong (University of Illinois at Urbana-Champaign)

Seyed A Esmaeili (University of Maryland, College Park)\*; Sharmila Duppala (University of Maryland, College Park); Brian Brubach (Wellesley College); John P Dickerson (University of Maryland)

Changdae Oh (University of Seoul); Heeji Won (Korea University); Junhyuk So (University Of Seoul); Taero Kim (University of Seoul); Yewon Kim (University of Seoul); Hosik Choi (University of Seoul); Kyungwoo Song (University of Seoul)\*

Chen Zhao (Kitware Inc.)\*; Feng Mi (University of Texas at Dallas); Xintao Wu (University of Arkansas); Kai Jiang (University of Texas at Dallas); Latifur Khan (The university of Texas at Dallas); Feng Chen (UT Dallas)

#### SESSION 4

#### Wednesday, August 17, 10:00 AM-12:00 PM, Room 1, (Graph Mining)

Few-shot Heterogeneous Graph Learning via Cross-domain Knowledge Transfer

Multiplex Heterogeneous Graph Convolutional Network

Disentangled Heterogeneous Dynamic Graph Learning for Opioid Overdose Prediction

JuryGCN: Quantifying Jackknife Uncertainty on Graph Convolutional Networks

Qiannan Zhang (King Abdullah University of Science and Technology)\*; Xiaodong Wu (King Abdullah University of Science and Technology); Qiang Yang (King Abdullah University of Science and Technology); Chuxu Zhang (Brandeis University); Xiangliang Zhang (Un

Pengyang Yu (Ocean University of China); Chaofan Fu (Ocean University of China); Yanwei Yu (Ocean University of China)\*; Chao Huang (University of Hong Kong); Junyu Dong (Ocean University of China)

Qianlong Wen (University of Notre Dame)\*; Zhongyu Ouyang (University of Notre Dame); Jianfei Zhang (University of Alberta); Yiyue Qian (University of Notre Dame); Yanfang Ye (University of Notre Dame); Chuxu Zhang (Brandeis University)

Jian Kang (University of Illinois at Urbana-Champaign)\*; Qinghai Zhou (University of Illinois at Urbana-Champaign); Hanghang Tong (University of Illinois at Urbana-Champaign)

SL-VAE: Variational Autoencoder for Source Localization in Graph Information Diffusion  
Towards an Optimal Asymmetric Graph Structure for Robust Semi-supervised Node Classification

Chen Ling (Emory University)\*; Junji Jiang (Tianjin University); Junxiang Wang (Emory University); Zhao Liang (Emory University)  
Zixing Song (The Chinese University of Hong Kong)\*; Yifei Zhang (The Chinese University of Hong Kong); Irwin King (The Chinese University of Hong Kong)

**Wednesday, August 17, 10:00 AM-12:00 PM, Room 2, (Time Series and Spatiotemporal Data)**

Graph-Flashback Network for Next Location Recommendation  
MSDR: Multi-Step Dependency Relation Networks for Spatial Temporal Forecasting  
Quantifying and Reducing Registration Uncertainty of Spatial Vector Labels on Earth Imagery  
Multi-Agent Graph Convolutional Reinforcement Learning for Dynamic Electric Vehicle Charging Pricing  
  
Mining Spatio-Temporal Relations via Self-Paced Graph Contrastive Learning  
Beyond Point Prediction: Capturing Zero-Inflated & Heavy-Tailed Spatiotemporal Data with Deep Extreme Mixture Models

Xuan Rao (University of Electronic Science and Technology of China)\*; Lisi Chen (KAUST); Yong Liu (Nanyang Technological University); Shuo Shang (KAUST); Bin Yao (Shanghai Jiao Tong University); Peng Han (KAUST)  
Dachuan Liu (University of Electronic Science and Technology of China); Jin Wang (UCLA); Shuo Shang (KAUST); Peng Han (KAUST)\*  
Wenchong He (University of Florida)\*; Marcus Kriby (University of Alabama); Zhe Jiang (University of Florida); Yiqun Xie (The University of Maryland); Xiaowei Jia (University of Pittsburgh); Da Yan (University of Alabama at Birmingham); Yang Zhou (Auburn)  
Weijia Zhang (School of Computer Science, University of Science and Technology of China)\*; Hao Liu (HKUST); Jindong Han (The Hong Kong University of Science and Technology); Yong Ge (The University of Arizona); Hui Xiong (Hong Kong University of Science and Technology)  
Rongfan Li (School of Information and Software Engineering, University of Electronic Science and Technology of China); Xinke Jiang (University of Electronic Science and Technology of China); Fan Zhou (School of Information and Software Engineering, Univer  
Tyler Wilson (Michigan State University); Andrew R McDonald (Michigan State University)\*; Asadullah Hill Galib (Michigan State University ); Pang-Ning Tan (Michigan State University); Lifeng Luo (Michigan State University)

**Wednesday, August 17, 10:00 AM-12:00 PM, Room 3, (Deep Learning Applications)**

Robust and Informative Text Augmentation (RITA) via Constrained Worst-Case Transformations for Low-Resource Named Entity Recognition  
Deep Learning For Prognosis Using Task-fMRI: A Novel Architecture and Training Scheme  
  
Modeling Individual Decision-Making Style in Chess  
  
Robust Event Forecasting with Spatiotemporal Confounder Learning  
Physics-infused Machine Learning for Crowd Simulation  
Learning Binarized Graph Representations with Multi-faceted Quantization Reinforcement for Top-K Recommendation

Hyunwoo Sohn (North Carolina State University)\*; Baekwan Park (The University of Missouri)  
Ge Shi (UC Davis)\*; Jason Smucny (University of California Davis ); Ian Davidson (UC Davis)  
Reid H McIlroy-Young (University of Toronto)\*; Russell Wang (University of California, Berkeley); Siddhartha Sen (Microsoft Research); Jon Kleinberg (Cornell); Ashton Anderson (University of Toronto)  
Songgaojun Deng (STEVENS INSTITUTE OF TECHNOLOGY)\*; Huzefa Rangwala (George Mason University); Yue Ning (Stevens Institute of Technology)  
Guozhen Zhang (Tsinghua University)\*; Zihan Yu (Tsinghua University); Depeng Jin (Tsinghua University); Yong Li (Tsinghua University)  
Yankai Chen (The Chinese University of Hong Kong)\*; Huifeng Guo (Huawei Noah's Ark Lab); Yingxue Zhang (Huawei Technologies Canada); Chen Ma (City University of Hong Kong); Ruiming Tang (Huawei Noah's Ark Lab); Jingjie Li (Huawei Noah's Ark Lab); Irwin Ki

**Wednesday, August 17, 10:00 AM-12:00 PM, Room 4, (Online Learning and Transfer Learning)**

S2RL: Do We Really Need to Perceive All States in Deep Multi-Agent Reinforcement Learning?  
  
Neural Bandit with Arm Group Graph  
Domain Adaptation with Dynamic Open-Set Targets  
  
Active Model Adaptation Under Unknown Shift  
  
External Knowledge Infusion for Tabular Pre-training Models with Dual-adapters  
  
Spatio-Temporal Graph Few-Shot Learning with Cross-City Knowledge Transfer

Shuang Luo (Zhejiang University); Yinchuan Li (Huawei Noah's Ark Lab); Jiahui Li (Zhejiang University); Kun Kuang (Zhejiang University); Furui Liu (Huawei Noah's Ark Lab); Yunfeng Shao (Huawei Noah's Ark Lab); Chao Wu (Zhejiang University)\*  
Yunzhe Qi (University of Illinois at Urbana-Champaign)\*; Yikun Ban (University of Illinois at Urbana-Champaign); Jingrui He (University of Illinois at Urbana-Champaign)  
Jun Wu (University of Illinois at Urbana-Champaign)\*; Jingrui He (University of Illinois at Urbana-Champaign)  
Jie-Jing Shao (Nanjing University)\*; Yunlu Xu (Hikvision Research Institute); Zhanzhan Cheng (Zhejiang University & Hikvision Research Institute); Yu-Feng Li (Nanjing University)  
Can Qin (Northeastern University)\*; Sungchul Kim (Adobe); Handong Zhao (Adobe Research); Tong Yu (Adobe Research); Ryan A. Rossi (Adobe Research); YUN FU (Northeastern University)  
Bin Lu (Shanghai Jiao Tong University); Xiaoying Gan (Shanghai Jiao Tong University)\*; Weinan Zhang (Shanghai Jiao Tong University); Huaxiu Yao (Stanford University); Luoyi Fu (Shanghai Jiao Tong University); Xinbing Wang (Shanghai Jiao Tong University)

**Wednesday, August 17, 10:00 AM -12:00 PM, Room 5, (Few Shot Learning)**

Collaboration Equilibrium in Federated Learning  
  
Connected Low-Loss Subspace Learning for a Personalization in Federated Learning  
FedMSplit: Correlation-Adaptive Federated Multi-Task Learning across Multimodal Split Networks  
p-Meta: Towards On-device Deep Model Adaptation  
Dual Bidirectional Graph Convolutional Networks for Zero-shot Node Classification  
  
Finding Meta Winning Ticket to Train Your MAML

Sen Cui (Department of Automation, Tsinghua University)\*; Jian Liang (Alibaba Group); Weishen Pan (Tsinghua University); Kun Chen (University of Connecticut); Changshui Zhang (Tsinghua University); Fei Wang (Cornell University)  
Seok-Ju Hahn (Ulsan National Institute of Science and Technology); Minwoo Jeong (Kakao Enterprise); Junghye Lee (Ulsan National Institute of Science and Technology)\*  
  
Jiayi Chen (University of Virginia)\*; Aidong Zhang (University of Virginia)  
Zhongnan Qu (ETH Zurich)\*; Zimu Zhou (Singapore Management University); Yongxin Tong (Beihang University); Lothar Thiele (ETH Zurich)  
Qin Yue (Shanxi University); Jiye Liang (Shanxi University)\*; Junbiao Cui (Shanxi University); Liang Bai (Shanxi University, China)  
Dawei Gao (Alibaba-inc); Yuexiang Xie (Alibaba Group)\*; Zimu Zhou (Singapore Management University); Zhen Wang (Alibaba Group); Yaliang Li (Alibaba Group); Bolin Ding ("Data Analytics and Intelligence Lab, Alibaba Group")

**Wednesday, August 17, 1:30 PM-3:30 PM, Room 1, (Text Mining)**

SagDRE: Sequence-Aware Graph-Based Document-Level Relation Extraction with Adaptive Margin Loss  
Variational Graph Author Topic Modeling  
Label-enhanced Prototypical Network with Contrastive Learning for Multi-label Few-shot Aspect Category Detection  
Open-Domain Aspect-Opinion Co-Mining with Double-Layer Span Extraction  
Unsupervised Key Event Detection from Massive Text Corpus  
Few-Shot Fine-Grained Entity Typing with Automatic Label Interpretation and Instance Generation

Ying Wei (Iowa State University)\*; Qi Li (Iowa State University)  
Delvin Ce Zhang (Singapore Management University)\*; Hady Lauw (Singapore Management University)  
Han Liu (Dalian University of Technology)\*; Feng Zhang (Peking University); Xiaotong Zhang (Dalian University of Technology); Siyang Zhao (Dalian University of Technology); Junjie Sun (Dalian University of Technology); Hong Yu (Dalian University of Technology)  
Adithya Mr. Kulkarni (Iowa State University)\*; Mohna Chakraborty (Iowa State University); Qi Li (Iowa State University)  
Yunyi Zhang (University of Illinois at Urbana-Champaign)\*; Fang Guo (Westlake University); Jiaming Shen (Google Research); Jiawei Han (UIUC)

Jiaxin Huang (University of Illinois Urbana-Champaign)\*; Yu Meng (University of Illinois Urbana-Champaign); Jiawei Han (UIUC)

**Wednesday, August 17, 1:30 PM-3:30 PM, Room 2, (Graph Mining)**

Joint Knowledge Graph Completion and Question Answering

Lihui Liu (University of Illinois at Urbana-Champaign)\*; Boxin Du (University of Illinois at Urbana-Champaign); Jiejun Xu (HRL); Yinglong Xia (Facebook); Hanghang Tong (University of Illinois at Urbana-Champaign)

Learning Causal Effects on Hypergraphs

Jing Ma (University of Virginia)\*; Mengting Wan (Microsoft); Longqi Yang (Microsoft); Jundong Li (University of Virginia); Brent Hecht (Microsoft); Jaime Teevan (Microsoft)

Meta-Learned Metrics over Multi-Evolution Temporal Graphs

Dongqi Fu (University of Illinois at Urbana-Champaign)\*; Liri Fang (University of Illinois Urbana-Champaign); Ross Maciejewski (Arizona State University); Vette I Torvik (University of Illinois at Urbana-Champaign); Jingrui He (University of Illinois at

On Structural Explanation of Bias in Graph Neural Networks

Yushun Dong (University of Virginia)\*; Song Wang (University of Virginia); Yu Wang (Vanderbilt university); Tyler Derr (Vanderbilt University); Jundong Li (University of Virginia)

Accurate Node Feature Estimation with Structured Variational Graph Autoencoder

Jaemin Yoo (Carnegie Mellon University)\*; Hyunsik Jeon (Seoul National University); Jinhong Jung (Jeonbuk National University); U Kang (Seoul National University)

GUIDE: Group Equality Informed Individual Fairness in Graph Neural Networks

Weihao Song (University of Virginia)\*; Yushun Dong (University of Virginia); Ninghao Liu (University of Georgia); Jundong Li (University of Virginia)

**Wednesday, August 17, 1:30 PM-3:30 PM, Room 3, (Mining, Inference and Learning)**

Detecting Arbitrary Order Beneficial Feature Interactions for Recommender Systems

Yixin Su (The University of Melbourne)\*; Yunxiang Zhao (The University of Melbourne); Sarah Erfani (University of Melbourne); Junhao Gan (University of Melbourne); Rui Zhang (ruizhang.info)

pureGAM: Learning an Inherently Pure Additive Model  
Balancing Bias and Variance for Active Weakly Supervised Learning

Xingzhi Sun (Yale University)\*; Ziyu Wang (Peking University); Rui Ding (Microsoft Research); Shi Han (Microsoft Research); Dongmei Zhang (Microsoft Research Asia)

Training Graph Neural Networks in Extreme Low-Data Regime

Hitesh Sapkota (Rochester Institute of Technology); Qi Yu (Rochester Institute of Technology)\*

Practical Counterfactual Policy Learning for Top- $K$  Recommendations

Danning Lao (Shanghai Jiao Tong University)\*; Xinyu Yang (Shanghai Jiao Tong University); Qitian Wu (Shanghai Jiao Tong University); Junchi Rao (Shanghai Jiao Tong University)

Yaxu Liu (National Taiwan University)\*; Jui-Nan Yen (National Taiwan University); Bowen Yuan (National Taiwan University); Rundong Shi (Meituan); Peng Yan (Meituan); Chih-Jen Lin (National Taiwan University)

**Wednesday, August 17, 1:30 PM-3:30 PM, Room 4, (Recommendation Systems)**

Addressing Unmeasured Confounder for Recommendation with Sensitivity Analysis

Sihao Ding (University of Science and Technology of China)\*; Peng Wu (Peking University); Fuli Feng (University of Science and Technology of China); Yitong Wang (University of Science and Technology of China); Xiangnan He (University of Science and Technology of China)

Towards Representation Alignment and Uniformity in Collaborative Filtering

Chenyang Wang (Tsinghua University)\*; Yuanqing Yu (Tsinghua University); Weizhi Ma (Tsinghua University); Min Zhang (Tsinghua University); Chong Chen (Tsinghua University); Yiqun LIU (Tsinghua University); Shaoping Ma (Tsinghua University)

A Generalized Doubly Robust Learning Framework for Debiasing Post-Click Conversion Rate Prediction

Quanyu Dai (Huawei Noah's Ark Lab)\*; Peng Wu (Peking University); Haoxuan Li (Peking University); Zhenhua Dong (Huawei Noah's Ark Lab); Xiao-Hua Zhou (Peking University); Rui Zhang (ruizhang.info); Rui Zhang (Huawei Technologies Co., Ltd.); Jie Sun (Theor

CoRGi: Content-Rich Graph Neural Networks with Attention

Jooyeon Kim (RIKEN)\*; Angus Lamb (Microsoft); Simon Woodhead (Eedi); Simon Pyton Jones (Microsoft); Cheng Zhang (Microsoft); Miltiadis Allamanis (MSR Cambridge)

Knowledge-enhanced Black-box Attacks for Recommendations

Jingfan Chen (Nanjing University)\*; Wenqi FAN (The Hong Kong Polytechnic University); Guanghui Zhu (Nanjing University); Xiangyu Zhao (City University of Hong Kong); Chunfeng Yuan (Nanjing University); Qing Li (The Hong Kong Polytechnic University); Yih

Towards Universal Sequence Representation Learning for Recommender Systems

Yupeng Hou (Renmin University of China)\*; Shanlei Mu (Renmin University of China); Wayne Xin Zhao (Renmin University of China); Yaliang Li (Alibaba Group); Bolin Ding ("Data Analytics and Intelligence Lab, Alibaba Group"); Ji-Rong Wen (Renmin University of

**Wednesday, August 17, 1:30 PM-3:30 PM, Room 5, (Graph and Networks)**

Ultrahyperbolic Knowledge Graph Embeddings  
Core-periphery Partitioning and Quantum Annealing  
A Spectral Representation of Networks: The Path of Subgraphs

Bo Xiong (University of Stuttgart)\*; Shichao Zhu (Institute of Information Engineering, Chinese Academy of Sciences); Mojtaba Nayeri (University of Stuttgart); Chengjin Xu (University of Bonn); Shirui Pan (Monash University); Chuan Zhou (Chinese Academy of Sciences)  
Catherine F Higham (University of Glasgow); Desmond J Higham (University of Edinburgh); Francesco Tudisco (Gran Sasso Science Institute)\*  
Shengmin Jin (Syracuse University)\*; Hao Tian (Syracuse University); Jiayu Li (Syracuse University); Reza Zafarani (Syracuse University)

Enhancing Machine Learning Approaches for Graph Optimization Problems with Diversifying Graph Augmentation

CLARE: A Semi-supervised Community Detection Algorithm

Efficient Join Order Selection Learning with Graph-based Representation

Chen-Hsu Yang (National Tsing Hua University); Chih-Ya Shen (National Tsing Hua University)\*

Xixi Wu (Fudan University)\*; Yao Zhang (Fudan University); Yun Xiong (Fudan University); Yizhu Jiao (Fudan University); Caihua Shan (microsoft); Yangyong Zhu (Fudan University); Philip S Yu (UIUC)

Jin Chen (University of Electronic Science and Technology of China(UESTC)); Guanyu Ye (University of Electronic Science and Technology of China); Yan Zhao (Aalborg University); Shuncheng Liu (University of Electronic Science and Technology of China); Liwe

## SESSION 6

### Thursday, August 18, 10:00 AM-12:00 PM, Room 1, (Graph Mining)

COSTA: Covariance-Preserving Feature Augmentation for Graph Contrastive Learning  
RLogic: Recurrent Logical Rule Learning from Knowledge Graphs

Nimble GNN Embedding with Tensor-Train

Condensing Graphs via One-Step Gradient Matching  
Graph Structural Attack by Perturbing Spectral Distance

Feature Overcorrelation in Deep Graph Neural Networks: A New Perspective

Yifei Zhang (The Chinese University of Hong Kong)\*; Hao Zhu (Australian National University); Zixing Song (The Chinese University of Hong Kong); Piotr Koniusz (ANU College of Engineering and Computer Science); Irwin King (The Chinese University of Hong Kong); Kewei Cheng (UCLA)\*; Jiahao Liu (Tongji University); Wei Wang (UCLA); Yizhou Sun (UCLA)

Chunxing Yin (Georgia Institute of Technology)\*; Da Zheng (Amazon); Israt Nisa (Amazon); Christos Faloutsos (Amazon); George Karypis (Amazon); Richard Vuduc (Georgia Institute of Technology)

Wei Jin (Michigan State University)\*; Xianfeng Tang (Amazon); Haoming Jiang (Georgia Tech); Zheng Li (Amazon); Danqing Zhang (Amazon); Jiliang Tang (Michigan State University); Bing Yin (Amazon)

Lu Lin (University of Virginia)\*; Ethan Blaser (University of Virginia); Hongning Wang (University of Virginia)

Wei Jin (Michigan State University)\*; Xiaorui Liu (Michigan State University); Yao Ma (Michigan State University); Charu Aggarwal (IBM); Jiliang Tang (Michigan State University)

### Thursday, August 18, 10:00 AM-12:00 PM, Room 2, (Mining, Inference and Learning)

Sample-Efficient Kernel Mean Estimator with Marginalized Corrupted Data

Non-stationary A/B Tests  
Nonlinearity Encoding for Extrapolation of Neural Networks

Batch Stochastic Bin Packing in Cloud: A Chance-constrained Optimization Approach  
LinE: Logical Query Reasoning over Hierarchical Knowledge Graphs

Learning Task-relevant Representations for Generalization via Characteristic Functions of Reward Sequence Distributions

Xiaobo Xia (The University of Sydney)\*; Shuo Shan (Southeast University); Mingming Gong (University of Melbourne); Nannan Wang (Xidian University); Fei Gao (Hangzhou Dianzi University); Haikun Wei (Southeast University); Tongliang Liu (The University of Yuhang Wu (Department of Industrial Engineering and Operations Research, University of California, Berkeley); Guangyu Zhang (Amazon); Zeyu Zheng (Department of Industrial Engineering and Operations Research, University of California, Berkeley)\*; Zuo Hua Zh  
Gyoung S. Na (KRICT)\*; Chanyoung Park (KAIST)

Jie Yan (Microsoft Research)\*; Yunlei Lu (MSRA); Liting Chen (Microsoft); Si Qin (Microsoft Research); Yixin Fang (Microsoft); Qingwei Lin (Microsoft Research); Thomas Moscibroda (Microsoft, USA); Saravan Rajmohan (Microsoft 365); Dongmei Zhang (Microsoft Zijian Huang (University of Auckland); Meng-Fen Chiang (University of Auckland)\*; Wang-Chien Lee (Pennsylvania State University, USA)

Rui Yang (University of Science and Technology of China); Jie Wang (University of Science and Technology of China)\*; Zijie Geng (University of Science and Technology of China); Mingxuan Ye (University of Science and Technology of China); Shuiwang Ji (Tena

### Thursday, August 18, 10:00 AM-12:00 PM, Room 3, (Recommendation Systems)

Towards Unified Conversational Recommender Systems via Knowledge-Enhanced Prompt Learning

Debiasing Learning for Membership Inference Attacks Against Recommender Systems  
BLISS: A Billion scale Index using Iterative Re-partitioning  
Debiasing the Cloze Task in Sequential Recommendation with Bidirectional Transformers

User-Event Graph Embedding Learning for Context-Aware Recommendation  
Aligning Dual Disentangled User Representations from Ratings and Textual Content

Xiaolei Wang (Renmin University of China); Kun Zhou (Renmin University of China); Ji-Rong Wen (Renmin University of China); Wayne Xin Zhao (Renmin University of China)\*

Zihan Wang (Shandong University)\*; Na Huang (Shandong University); Fei Sun (Alibaba Group); Pengjie Ren (Shandong University); Zhumin Chen (Shandong University); Hengliang Luo (Meituan); Maarten de Rijke (University of Amsterdam); Zhaochun Ren (Shandong U Gaurav Gupta (Rice University)\*; Tharun Medini (ThirdAI Corp.); Anshumali Shrivastava (Rice University); Alex J Smola (Amazon) Khalil Damak (University of Louisville)\*; Sami Khenissi (University of Louisville); Olfa Nasraoui (University of Louisville)

Dugang Liu (Shenzhen University)\*; Mingkai He (Shenzhen University); Jinwei Luo (Shenzhen University); Jiangxu Lin (Southeast University); Meng Wang (Southeast University); Xiaolian Zhang (Huawei 2012 lab); Weike Pan (Shenzhen University); Zhong Ming (Shen Nhu-Thuat Tran (Singapore Management University)\*; Hady Lauw (Singapore Management University)

### Thursday, August 18, 10:00 AM-12:00 PM, Room 4, (Unstructured and Temporal Data)

Knowledge Enhanced Search Result Diversification

Mask and Reason: Pre-Training Knowledge Graph Transformers for Complex Logical Queries

Learning the Evolutionary and Multi-scale Graph Structure for Multivariate Time Series Forecasting

Task-Aware Reconstruction for Time-Series Transformer

Multi-Variate Time Series Forecasting on Variable Subsets  
ProActive: Self-Attentive Temporal Point Process Flows for Activity Sequences

Zhan Su (Renmin University of China)\*; Zhicheng Dou (Renmin University of China); Yutao Zhu (Universtř de Montrřal); Ji-Rong Wen (Renmin University of China)

Xiao Liu (Tsinghua University)\*; Shiyu Zhao (Tsinghua University); Kai Su (Tsinghua University); Yukuo Cen (Tsinghua University); Jiezhong Qiu (Tencent); Mengdi Zhang (Meituan-Dianping Group); Wei Wu (Meituan-Dianping Group); Yuxiao Dong (Tsinghua Univers

Junchen Ye (Beihang University)\*; Zihan Liu (Beihang University); Bowen Du (Beihang University); Leilei Sun (Beihang University); Weimiao Li (Beihang University); Yanjie Fu (University of Central Florida); Hui Xiong (Hong Kong University of Science and Ranak Roy Chowdhury (University of California, San Diego)\*; Xiyuan Zhang (University of California, San Diego); Jingbo Shang (UC San Diego); Rajesh Gupta (UC San Diego); Dezhi Hong (UC San Diego)

Jatin Chauhan (Google AI)\*; Aravindan Raghuvver (Google Research); Rishi Saket (Google Research); Jay Nandy (Google Research); Balaraman Ravindran (Indian Institute of Technology, Madras)

Vinayak Gupta (IIT Delhi)\*; Srikanta Bedathur (IIT Delhi)

**Thursday, August 18, 10:00 AM-12:00 PM, Room 5, (Ethics, Explainability and Fairness)**

Fair Ranking as Fair Division: Impact-Based Individual Fairness in Ranking

Make Fairness More Fair: Fair Item Utility Estimation and Exposure Re-Distribution

Fair View Graph Neural Network for Fair Node Representation Learning

Invariant Preference Learning for General Debiasing in Recommendation

RES: A Robust Framework for Visual Explanation Supervision

ExMeshCNN: An Explainable Convolutional Neural Network Architecture for 3D Shape Analysis

Yuta Saito (Cornell University)\*; Thorsten Joachims (Cornell)

Jiayin Wang (Tsinghua University)\*; Weizhi Ma (Tsinghua University); Jiayu Li (Tsinghua University); Hongyu Lu (Tsinghua University); Min Zhang (Tsinghua University); Biao Li (Kuaishou Inc.); Yiqun LIU (Tsinghua University); Peng Jiang (Kuaishou Inc.); Sh

Yu Wang (Vanderbilt university)\*; Yuying Zhao (Vanderbilt university); Yushun Dong (University of Virginia); Huiyuan Chen (Case Western Reserve University); Jundong Li (University of Virginia); Tyler Derr (Vanderbilt University)

Zimu Wang (Tsinghua University)\*; Yue He (Tsinghua University); Jiashuo Liu (Tsinghua University); Wenchao Zou (Siemens China); Philip S Yu (UNIVERSITY OF ILLINOIS AT CHICAGO); Peng Cui (Tsinghua University)

Yuyang Gao (Emory University)\*; Tong Sun (George Mason University); Guangji Bai (Emory University); Siyi Gu (Emory University); Sungsoo Hong (George Mason University); Zhao Liang (Emory University)

SeongGyeom Kim (Hanyang University); Dong-Kyu Chae (Hanyang University)\*

**Thursday, August 18, 10:00 AM-12:00 PM, Room 6, (Potpourri Applications)**

Robust Inverse Framework using Self-Supervised Learning: An application to Hydrology Domain Adaptation in Physical Systems via Graph Kernel

State Dependent Parallel Neural Hawkes Process for Limit Order Book Event Stream Prediction and Simulation

Sparse Conditional Hidden Markov Model for Weakly Supervised Named Entity Recognition

Knowledge-Guided Pre-training of Graph Transformer for Molecular Property Prediction

Intrinsic-Motivated Sensor Management: Exploring with Physical Surprise

Rahul Ghosh (University of Minnesota)\*; Arvind Renganathan (University of Minnesota); Kshitij Tayal (University of Minnesota); Xiang Li (University of Minnesota Twin Cities); Ankush Khandelwal (University of Minnesota); Xiaowei Jia (University of Pittsbur

Haoran Li (Arizona State University)\*; Hanghang Tong (University of Illinois at Urbana-Champaign); Yang Weng (Arizona State University)

Zijian Shi (University of Bristol)\*; John Cartlidge (University of Bristol)

Yinghao Li (Georgia Institute of Technology)\*; Le Song (Biomap &amp; MBZUAI); Chao Zhang (Georgia Institute of Technology)

Han Li (Tsinghua University); Dan Zhao (Tsinghua University); Jianyang Zeng (Tsinghua)\*

Jingyi Yuan (Arizona State University)\*; Yang Weng (Arizona State University); Erik Blasch (AFRL)

**SESSION 7****Thursday, August 18, 1:30 PM-3:30 PM, Room 1, (Mining, Inference, and Learning)**

Efficient Approximate Algorithms for Empirical Variance with Hashed Block Sampling

Discovering Significant Patterns under Sequential False Discovery Control

Flexible Modeling and Multitask Learning using Differentiable Tree Ensembles

How does Heterophily Impact Robustness of Graph Neural Networks? Theoretical Connections and Practical Implications

Saliency-regularized Deep Multi-task Learning

Geometric Policy Iteration for Markov Decision Processes

Xingguang Chen (The Chinese University of Hong Kong); Fangyuan ZHANG (The Chinese Univesity of Hong Kong); Sibor Wang (The Chinese University of Hong Kong)\*

Sebastian Dalleiger (CISPA Helmholtz Center for Information Security)\*; Jilles Vreeken (CISPA Helmholtz Center for Information Security)

Shibal Ibrahim (Massachusetts Institute of Technology)\*; Hussein Hazimeh (MIT); Rahul Mazumder (Massachusetts Institute of Technology)

Jiong Zhu (University of Michigan)\*; Junchen Jin (University of Michigan, Ann Arbor); Donald Loveland (University of Michigan Ann Arbor); Michael

Schaub (RWTH Aachen University); Danaï Koutra (U Michigan)

Guangji Bai (Emory University)\*; Zhao Liang (Emory University)

Yue Wu (UC Davis)\*; Jesus de Loera (UC Davis)

**Thursday, August 18, 1:30 PM-3:30 PM, Room 2, (Data Cleaning, Transformation and Integration)**

Evaluating Knowledge Graph Accuracy Powered by Optimized Human-machine Collaboration

Communication-Efficient Robust Federated Learning with Noisy Labels

In Defense of Core-set: A Density-aware Core-set Selection for Active Learning

HyperLogLog: Cardinality Estimation With One Log More

Learning Optimal Priors for Task-Invariant Representations in Variational Autoencoders

PARSRec: Explainable Personalized Attention-fused Recurrent Sequential Recommendation Using Session Partial Actions

Yifan Qi (Fudan University); Weiguo Zheng (Fudan University)\*; Liang Hong ("Wuhan University, China"); Lei Zou (Peking University)

Junyi Li (University of Pittsburgh); Jian Pei (Simon Fraser University); Heng Huang (University of Pittsburgh)\*

Yeachen Kim (Deargen Inc.)\*; Bonggun Shin (Deargen Inc.)

Matti Karppa (IT University of Copenhagen)\*; Rasmus Pagh (University of Copenhagen)

Hiroshi Takahashi (NTT Computer and Data Science Laboratories)\*; Tomoharu Iwata (NTT); Atsutoshi Kumagai (NTT Computer and Data Science Laboratories); Sekitoshi Kanai (NTT); Masanori Yamada (NTT Social Informatics Laboratories); Yuuki Yamanaka (NTT Social

Ehsan Gholami (University of California, Davis)\*; Mohammad Motamedi (University of California, Davis); Ashwin Aravindakshan (University of California-Davis)

**Thursday, August 18, 1:30 PM-3:30 PM, Room 3, (Clustering, Imbalanced Data and Tensors)**

The DipEncoder: Enforcing Multimodality in Autoencoders

Clustering with fair center representation: parameterized approximation algorithms and heuristics

An Embedded Feature Selection Framework for Control

Collin Leiber (LMU Munich)\*; Lena Greta Marie Bauer (University of Vienna, ds:UniVie); Michael Neumayr (LMU Munich); Claudia Plant (University of Vienna, Austria); Christian Boehm (University of Munich)

Suhas Thejaswi (Aalto Univeristy)\*; Ameet Gadekar (Aalto University); Bruno Ordozgoiti (Queen Mary University of London); Micha\_ Osadnik (Aalto University)

Jiawen Wei (Central South University); Fangyuan Wang (Zhejiang Sci-Tech University); Wanxin Zeng (Central South university); Wenwei Lin (Central South University); Ning Gui (Central South University)\*

SOS: Score-based Oversampling Minor Classes for Tabular Data	jayoung kim (Yonsei University); ChaeJeong Lee (Yonsei University); Yehjin Shin (Yonsei University); Sewon Park (Samsung SDS); Minjung Kim (Samsung SDS); Noseong Park (Yonsei University, Korea)*; Jihoon Cho (Samsung SDS)
Low-rank Nonnegative Tensor Decomposition in Hyperbolic Space	Bo Hui (Auburn University)*; Wei-Shinn Ku (Auburn University)
Robust Tensor Graph Convolutional Networks via T-SVD based Graph Augmentation	Zhebin Wu (Sun Yat-Sen University)*; Lin Shu (Sun Yat-sen University); Ziyue Xu (Sun Yat-Sen University); Yaomin Chang (Sun Yat-sen University); Chuan Chen (Sun Yat-sen University); Zibin Zheng (Sun Yat-sen University)

**Thursday, August 18, 1:30 PM-3:30 PM, Room 4, (User Modeling, Knowledge and Ontologies, Web and Commerce)**

CrossCBR: Cross-view Contrastive Learning for Bundle Recommendation	Yunshan Ma (National University of Singapore ); Yingzhi He (National University of Singapore); An Zhang (National University of Singapore); Xiang Wang (National University of Singapore); Tat-Seng Chua (National university of Singapore)
HICF: Hyperbolic Informative Collaborative Filtering	Menglin Yang (The Chinese University of Hong Kong)*; Li Zhihao (Harbin Institute of Technology, Shenzhen); Min Zhou (Huawei Technologies co. Ltd); Jiahong Liu (Harbin Institute of Technology(Shenzhen)); Irwin King (The Chinese University of Hong Kong)
Dual-Geometric Space Embedding Model for Two-View Knowledge Graphs	Roshni Iyer (University of California, Los Angeles)*; Yunsheng Bai (University of California, Los Angeles); Wei Wang (UCLA); Yizhou Sun (UCLA)
Disentangled Ontology Embedding for Zero-shot Learning	Yuxia Geng (Zhejiang University)*; Jiaoyan Chen (University of Oxford); Wen Zhang (Zhejiang University); yajing xu (zhejiang university); Zhuo Chen (Zhejiang University); Jeff Z. Pan (The University of Edinburgh); yufeng huang (Zhejiang University); Feiyu
Scalar is Not Enough: Vectorization-based Unbiased Learning to Rank	Mouxian Chen (Zhejiang University)*; Chenghao Liu (Salesforce); Zemin Liu (Singapore Management University); Jianling Sun (Zhejiang University)
Learning Relevant Information in Conversational Search and Recommendation using Deep Reinforcement Learning	Ali MontazerAlghaem (University of Massachusetts Amherst)*; James Allan (University of Massachusetts Amherst)

**Thursday, August 18, 1:30 PM-3:30 PM, Room 5 , (Time Series and Streaming Data)**

Local Evaluation of Time Series Anomaly Detection Algorithms	Alexis Huet (Huawei Technologies France)*; Jose M Navarro (Huawei Technologies Co. Ltd.); dario rossi (Huawei)
Learning to Rotate: Quaternion Transformer for Complicated Periodical Time Series Forecasting	Weiqi Chen (Alibaba Group)*; Wenwei WANG (Alibaba Group); Bingqing Peng (Alibaba Group); Qingsong Wen (Alibaba Group U.S.); Tian Zhou (Alibaba DAMO Academy); Liang Sun (Alibaba Group)
Learning Differential Operators for Interpretable Time Series Modeling	Yingtao Luo (Carnegie Mellon University)*; Chang Xu (Microsoft); Yang Liu (Microsoft); Weiqing Liu (Microsoft Research); Shun Zheng (Microsoft Research); Jiang Bian (Microsoft Research)
Non-stationary Time-aware Kernelized Attention for Temporal Event Prediction	Yu Ma (AntGroup)*; Zhining Liu (Ant Group); Chenyi Zhuang (Ant Financial); Yize Tan (Ant Financial Services Group); Yi Dong (Ant Financial Services Group); WENLIANG ZHONG (Ant Group); Jinjie Gu (Ant Group)
RL2: A Call for Simultaneous Representation Learning and Rule Learning for Graph Streams	Qu Liu (University of Massachusetts, Lowell); Tingjian Ge (University of Massachusetts, Lowell)*
Streaming Hierarchical Clustering based on Point-set Kernel	Xin Han (University of Macau); Ye Zhu (Deakin University)*; Kai Ming Ting (Nanjing University); De-Chuan Zhan (Nanjing University); Gang Li (Deakin Univeristy, Australia)

**Special Session: All Other Papers Accepted in Research Track**

Paper ID	Paper Title	Authors
	Sufficient Vision Transformer	Zhi Cheng (The University of Sydney)*; Xiu Su (University of Sydney); XUEYU WANG (The University of Sydney); Shan You (SenseTime); Chang Xu (University of Sydney)
	Estimating Individualized Causal Effect with Confounded Instruments	Haotian Wang (National University of Defense Technology)*; Wenjing Yang (National University of Defense Technology); Longqi Yang (National University of Defense Technology); Anpeng Wu (Zhejiang University); liyang xu (National University of Defense Techno
	MDP2 Forest: A Constrained Continuous Multi-dimensional Policy Optimization Approach for Short-video Recommendation	Sizhe Yu (Shanghai University of Finance and Economics)*; Ziyi Liu (School of Statistics, Renmin University of China); Shixiang Wan (Tencent); zero Jay (Tencent); Zang Li (DiDi AI Labs, Didi Chuxing); Fan Zhou (Shanghai University of Finance and Economics
	FLDetector: Detecting Malicious Clients in Federated Learning via Checking Model-Updates Consistency	ZAIXI ZHANG (University of Science and Technology of China)*; Xiaoyu Cao (Duke University); Jinyuan Jia (Duke University ); Neil Zhenqiang Gong (Duke University)
	Adaptive Learning for Weakly Labeled Streams	Zhen-Yu Zhang ( Nanjing University)*; Yu-Yang Qian (Nanjing University); Yu-Jie Zhang (Nanjing University); Yuan Jiang (Nanjing University); Zhi-Hua Zhou (Nanjing University)
	MetaPTP: An Adaptive Meta-optimized Model for Personalized Spatial Trajectory Prediction	Yuan Xu (Soochow University)*; Jiajie Xu (Soochow University); Jing ZHAO (HKUST); Kai Zheng (University of Electronic Science and Technology of China); An Liu (Soochow University); Lei Zhao (Soochow University); Xiaofang Zhou (The Hong Kong University of
	Partial Label Learning with Discrimination Augmentation	Wei Wang (Southeast University); Min-Ling Zhang (Southeast University)*
	UD-GNN: Uncertainty-aware Debiased Training on Semi-Homophilous Graphs	Yang Liu (Institute of Computing Technology_Chinese Academy of Sciences)*; Xiang Ao (Institute of Computing Technology, CAS ); Fuli Feng (University of Science and Technology of China); Qing He (Institute of Computing Technology, Chinese Academy of Scienc
	Unified 2D and 3D Pre-Training of Molecular Representations	Jinhua Zhu (University of Science and Technology of China); Yingce Xia (Microsoft Research Asia)*; Lijun Wu (Microsoft Research); Shufang Xie (Microsoft Research Asia); Tao Qin (Microsoft Research Asia); Wengang Zhou (University of Science and Technology
	On Aligning Tuples for Regression	Chenguang Fang (Tsinghua University); Shaoxu Song (Tsinghua University)*; Yinan Mei (Tsinghua University); Ye Yuan ( Beijing Institute of Technology); Jianmin Wang ("Tsinghua University, China")



Toward Real-life Dialogue State Tracking Involving Negative Feedback Utterances	Puhai Yang (Beijing Institute of Technology)*; Heyan Huang (Beijing Institute of Technology); Wei Wei (Huazhong University of Science and Technology); Xian-Ling Mao (Beijing Institute of Technology)
M3Care: Learning with Missing Modalities in Multimodal Healthcare Data	Chaohe Zhang (Peking University)*; Xu Chu (Peking University); Liantao Ma (Peking University); Yinghao Zhu (Beihang University); Yasha Wang (Peking University); Jiangtao Wang (Coventry University); Junfeng Zhao (peking university)
Counteracting User Attention Bias in Music Streaming Recommendation via Reward Modification	Xiao Zhang (Renmin University of China ); Sunhao Dai (Renmin University of China); Jun Xu (Renmin University of China)*; Zhenhua Dong (Huawei Noah's Ark Lab); Quanyu Dai (Huawei Noah's Ark Lab); Ji-Rong Wen (Renmin University of China)
Pre-training Enhanced Spatial-temporal Graph Neural Network for Multivariate Time Series Forecasting	ZeZhi Shao (Institute of Computing Technology, Chinese Academy of Sciences)*; Zhao Zhang (Institute of Computing Technology, Chinese Academy of Sciences ); Fei Wang (Institute of Computing Technology, Chinese Academy of Sciences); yongjun xu (Institute of Di Chai (HKUST)*; Leye Wang (Peking University, China); Junxue Zhang (HKUST); Liu Yang (HKUST); Shuowei Cai (HKUST); Kai Chen (HKUST); Qiang Yang (Hong Kong UST)
Practical Lossless Federated Singular Vector Decomposition Over Billion-Scale Data	___ Jiatong (University of Science and Technology of China)*; Fei Wang (University of Science and Technology of China); Qi Liu (" University of Science and Technology of China, China"); Mengxiao Zhu (University of Science and Technology of China); Wei Hua
HierCDF: A Bayesian Network-based Hierarchical Cognitive Diagnosis Framework	Wei Shen (Nankai University)*; Yang Yang (Nankai university); Yinan Liu (Nankai University)
Multi-View Clustering for Open Knowledge Base Canonicalization	Yu Song (Westlake University)*; Donglin Wang (Westlake University)
ODGAT: Learning on Graphs with Out-of-distribution Nodes	Kailun Wu (Alibaba Group)*; WeiJie Bian (Alibaba Group); Zhangming Chan (Alibaba Group); Lejian Ren (Alibaba Group); SHIMING XIANG (Chinese Academy of Sciences, China); Shu-Guang Han (Alibaba Group); Hongbo Deng (Alibaba Group); Bo Zheng (Alibaba Group)
Adversarial Gradient Driven Exploration for Deep Click-Through Rate Prediction	Liyi Chen (University of Science and Technology of China)*; Zhi Li (University of Science and Technology of China); Tong Xu (University of Science and Technology of China); Han Wu (University of Science and Technology of China); Zhefeng Wang (Huawei Cloud
Multi-modal Siamese Network for Entity Alignment	Minrui Wang ( University of Science and Technology of China)*; Mingxiao Feng (University of Science and Technology of China); Wengang Zhou (University of Science and Technology of China); Houqiang Li (University of Science and Technology of China)
Stabilizing Voltage in Power Distribution Networks via Multi-Agent Reinforcement Learning with Transformer	Shaofeng Zhang (Shanghai Jiao Tong University); Meng Liu ( Shanghai Jiao Tong University); Junchi Yan (Shanghai Jiao Tong University)*; Hengrui Zhang (University of Illinois at Chicago); Lingxiao Huang (Huawei TCS Lab); Pinyan Lu (Shanghai University of F
m-mix: Generating Hard Negatives via Multi-sample Mixing for Contrastive Learning	Yikai Yan (Shanghai Jiao Tong University); Chaoyue Niu (Shanghai Jiao Tong University); Renjie Gu (Shanghai Jiao Tong University); Fan Wu (Shanghai Jiao Tong University)*; Shaojie Tang (University of Texas at Dallas); Lifeng Hua (Alibaba Group); Chengfei
On-Device Learning for Model Personalization with Large-Scale Cloud-Coordinated Domain Adaption	Qianhao Cong (National University of Singapore); Jing Tang (The Hong Kong University of Science and Technology)*; Kai Han (Soochow University); Yuming Huang (National University of Singapore); Lei Chen (Hong Kong University of Science and Technology); Ye
Noisy Interactive Graph Search	Liangzhe Han (Beihang University)*; Xiaojian Ma (Beihang University); Leilei Sun (Beihang Univerisity); Bowen Du (Beihang Univeristy); Yanjie Fu (University of Central Florida); Weifeng Lv (Beihang University); Hui Xiong (Hong Kong University of Science a
Continuous-Time and Multi-Level Graph Representation Learning for Origin-Destination Demand Prediction	Man-Sheng Chen (Sun Yat-sen University); Chang-Dong Wang (Sun Yat-sen University)*; Dong Huang (South China Agricultural University); Jian-Huang Lai (Sun Yat-sen University); Philip S Yu (UNIVERSITY OF ILLINOIS AT CHICAGO)
Efficient Orthogonal Multi-view Subspace Clustering	Wei-Xuan Bao (Southeast University); Jun-Yi Hang (Southeast University); Min-Ling Zhang (Southeast University)*
Submodular Feature Selection for Partial Label Learning	Qiyang Pan (Shanghai Jiao Tong University); Yifei Zhu (Shanghai Jiao Tong University)*
FedWalk: Communication Efficient Federated Unsupervised Node Embedding with Differential Privacy	Huarui He (University of Science and Technology of China )*; Jie Wang (University of Science and Technology of China); Zhanqiu Zhang (University of Science and Technology of China); Feng Wu (University of Science and Technology of China)
Compressing Deep Graph Neural Networks via Adversarial Knowledge Distillation	Kaituo Feng (Beijing Institute of Technology)*; Changsheng Li (Beijing Institute of Technology); Ye Yuan ( Beijing Institute of Technology); Guoren Wang (Beijing Institute of Technology)
Free-direction Knowledge Distillation via Reinforcement Learning for Graph Neural Networks	Zhenyu Hou (Tsinghua University)*; Xiao Liu (Tsinghua University); Yukuo Cen (Tsinghua University); Yuxiao Dong (Tsinghua University); Hongxia Yang (Alibaba Group); chunjie wang (BirenTech Research); Jie Tang (Tsinghua University)
GraphMAE: Self-Supervised Masked Graph Autoencoders	Yuanfeng Song (The Hong Kong University of Science and Technology)*; Xuefang Zhao (WeBank Co., Ltd); Raymond Chi-Wing Wong (Hong Kong University of Science and Technology); Di Jiang (WeBank)
RGVisNet: A Hybrid Retrieval-Generation Neural Framework Towards Automatic Data Visualization Generation	Chengchang Liu (The Chinese University of Hong Kong)*; Shuxian Bi ( University of Science and Technology of China); Luo Luo (Fudan University); John C. S. Lui (The Chinese University of Hong Kong)
Partial-Quasi-Newton Methods: Efficient Algorithms for Minimax Optimization Problems with Unbalanced Dimensionality	Yanping Zheng (Renmin University of China); Hanzhi Wang (Renmin University of China); Zhewei Wei (Renmin University of China)*; Jiajun Liu (CSIRO); Sibo Wang (The Chinese University of Hong Kong)
Instant Graph Neural Networks for Dynamic Graphs	Wentao Zhang (Peking University)*; Zeang Sheng (Peking University); Ziqi Yin (Beijing Institute of Technology); Yuezihan Jiang (Peking University); Yikuan Xia (Peking University); Jun Gao (Peking University); Zhi Yang (Peking University); Bin Cui (Peking
An Empirical Study of Deep Graph Neural Networks	Yuan Qiu (Hong Kong Univ. of Science and Technology )*; Wei DONG (Hong Kong University of Science and Technology, Hong Kong); Ke Yi (Hong Kong Univ. of Science and Technology); Bin Wu (Alibaba); Feifei Li (Alibaba Group)
Releasing Private Data for Numerical Queries	Yuhao Yang (Wuhan University); Chao Huang (University of Hong Kong)*; Lianghao Xia (South China University of Technology); Yuxuan Liang (National University of Singapore); Yanwei Yu (Ocean University of China); Chenliang Li (Wuhan University)
Multi-Behavior Hypergraph-Enhanced Transformer for Next-Item Recommendation	ziran xiong (Nanjing University of Information Science and Technology)*; Wanli Shi (Nanjing University of Information Science & Technology); Bin Gu (MBZUAI)
End-to-End Semi-Supervised Ordinal Regression AUC Maximization with Convolutional Kernel Networks	

Sampling-based estimation of the number of distinct values in distributed environment	Jiajun Li (Renmin University of China)*; Zhewei Wei (Renmin University of China); Bolin Ding ("Data Analytics and Intelligence Lab, Alibaba Group"); Xiening Dai (Alibaba Group); Lu Lu (Alibaba Group); Jingren Zhou (Alibaba Group)
Self-Augmented Hypergraph Transformer for Recommender Systems	Lianghao Xia (South China University of Technology); Chao Huang (University of Hong Kong)*; Chuxu Zhang (Brandeis University)
GPPT: Graph Pre-training and Prompt Tuning to Generalize Graph Neural Networks	Ming-chen Sun (Jilin University)*; Kaixiong Zhou (Rice University); Xin He (Jilin university); Ying Wang (Jilin University); Xin Wang (Jilin University); Yang Li (Peking University)*; Yu Shen (Peking University); Huaijun Jiang (Peking University); Wentao Zhang (Peking University); Zhi Yang (Peking University); Ce Zhang (ETH); Bin Cui (Peking University)
TransBO: Hyperparameter Optimization via Two-Phase Transfer Learning	Yang Li (Peking University)*; Yu Shen (Peking University); Huaijun Jiang (Peking University); Tianyi Bai (Beijing Institute of Technology); Wentao Zhang (Peking University); Ce Zhang (ETH); Bin Cui (Peking University)
Transfer Learning based Search Space Design for Hyperparameter Tuning	Aiwei Liu (Tsinghua University)*; Xuming Hu (Tsinghua University); Li Lin (Tsinghua University); Lijie Wen (Tsinghua University)
Semantic Enhanced Text-to-SQL Parsing via Iteratively Learning Schema Linking Graph	Kuan Li (Institute of Computing Technology, Chinese Academy of Science)*; Yang Liu (Institute of Computing Technology_Chinese Academy of Sciences); Xiang Ao (Institute of Computing Technology, CAS ); Jianfeng Chi (Alibaba Group); Jinghua Feng (Ailaba Gro
Reliable Representations Make A Stronger Defender:Unsupervised Structure Refinement for Robust GNN	Qibing Ren (Shanghai Jiao Tong University)*; Yiting Chen (Shanghai Jiao Tong University); Yichuan Mo (Shanghai Jiao Tong University); Qitian Wu (Shanghai Jiao Tong University); Junchi Yan (Shanghai Jiao Tong University)
Preserving Privacy and Robustness through the Lens of Causality	Qingping Yang (Chinese Academy of Sciences (CAS), Institute of Computing Technology)*; Yixuan Cao (Institute of Computing Technology, CAS); Yingming Hu (Huatai Securities); Jianfeng Li (Huatai Securities); Nanbo Peng (Huatai Securities); Ping Luo (Chinese
Numerical Tuple Extraction from Tables with Pre-training	Yunjun Gao (Zhejiang University)*; Xiaoze Liu (Zhejiang University); Junyang Wu (Zhejiang University); Tianyi Li (Aalborg Univeristy); Pengfei Wang (Zhejiang University); Lu Chen (Zhejiang University)
ClusterEA: Scalable Entity Alignment with Stochastic Training and Normalized Mini-batch Similarities	Ruichao Yang (Hong Kong Baptist University)*; Xiting Wang (Microsoft Research Asia); Yiqiao Jin (University of California, Los Angeles); Chaozhao Li (Microsoft Research Asia); Jianxun Lian (MSRA); Xing Xie (Microsoft Research Asia)
Reinforcement Subgraph Reasoning for Fake News Detection	Ruijie Zhao (Shanghai Jiao Tong University)*; Xianwen Deng (Shanghai Jiao Tong University); Zhicong Yan (Shanghai JiaoTong University); Jun Ma (Shanghai Jiao Tong University); Zhi Xue (Shanghai Jiao Tong University); Yijun Wang (Shanghai Jiao Tong Univers
MT-FlowFormer: A Semi-Supervised Flow Transformer for Encrypted Traffic Classification	Maciej Besta (ETH Zurich)*; Raphael Grob (ETH Zurich); Cesare Miglioli (University of Geneva); Nicola Bernold (ETH Zürich); Grzegorz Kwasniewski (ETH Zurich); Gabriel Gjini (ETH Zurich); Raghavendra Kanakagiri (University of Illinois at Urbana-Champaign);
Motif Prediction with Graph Neural Networks	Xinghua Qu (Bytedance AI Lab)*; Pengfei Wei (National University of Singapore); Mingyong Gao (USTC); Zhu Sun (Macquarie University); Yew Soon Ong (Nanyang Technological University, Nanyang View, Singapore); Zejun Ma (Bytedance)
Synthesising Audio Adversarial Examples for Automatic Speech Recognition	Xinghua Qu (Bytedance AI Lab)*; Yew Soon Ong (Nanyang Technological University, Nanyang View, Singapore); Abhishek Gupta (Singapore Institute of Manufacturing Technology); Pengfei Wei (National University of Singapore); Zhu Sun (Macquarie University); Zej
Importance Prioritized Policy Distillation	