KDD 2023 RESEARCH TRACK OVERVIEW

Research Track Program Chairs



Xifeng Yan UC Santa Barbara



Leman Akoglu Carnegie Mellon University



Dimitrios Gunopulos National and Kapodistrian University of Athens

Research Track Workflow Chairs



Yu Su Ohio State University



Ziniu Hu Caltech



Yue Zhao University of Southern California

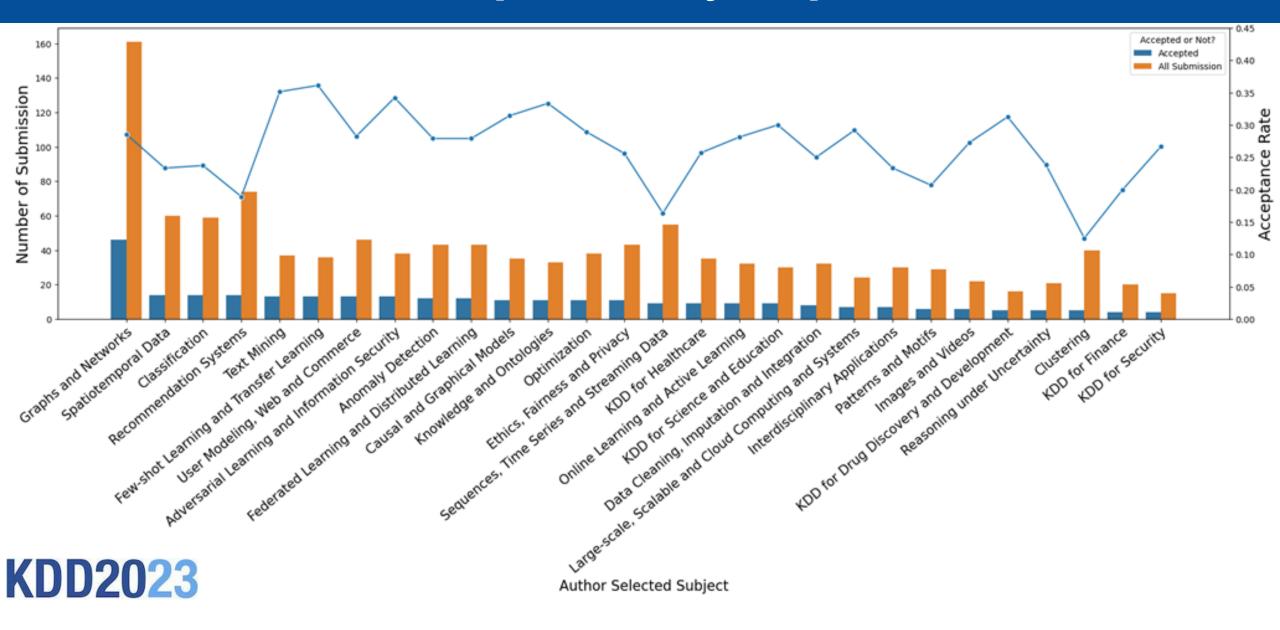
Research Track Statistics

- Total number of PCs: 1,469 (KDD 2022: 1,088)
- Total number of SPC: 154
- PC review period: 5 weeks
- Each paper received at least 3 reviews from the PC
- The review process is double-blind



	# Submissions	# Accepted	Acceptance Rate
2019	1179	174	14.76%
2020	1279	217	16.96%
2021	1541	239	15.50%
2022	1665	254	15.25%
2023 (this year)	1416	313	22.10%

Submission & Acceptance By Topics



Topic Distribution

transfer learning graph structure learning explainable ai allocation guaranteed delivery constrained influence maximization federated learning discovering variable length contrastive representation learning crowdsourcing fairness intrusion detection sketchgraph transformer user modeling graph representation learning entially ЧO adversarial learning invariant learning time series imputation collaborative filtering dimensionality reduction Ľ. structural expressive power missing data closed-set open-set out-of-candidate ð molecular N differential privacy optimi: deep reinforcement learning end-to-end inventory prediction retrieval tabular data lightweight token embedding weak supervision 200 shot U heterogeneous graph neural algorithmic recourse earni nami Ũ time series optimal dynamic subset tro infor S earning graph algorithm cohesiveness graphs merging graph sparsification few exploiting relation-aware attribute query multi-attribute data sparsity CON¹ text classification hypergraph lt ە ت estimation analytics targets dynamic 0 eb ochasti h structu **raini** mdp ime subset query multi-attribute incremental learning stock ea ale subgraph query interpretable tive gaussian process 60-1 S task model-agnostic lightweight causal inference 1 ÷ apla tainty low-resource dynamic graph as meta-learning graph partial label learning noisy label ۳. ۳ select feature interactions contr ferable aria. cation efficient coreset selection SC neura network graph variable length warped r0 uncert StI knowledge dis tillation di sar multi-view task representation dynamic learning stock trend anking de-identified patient health social network analysis causal flow network listwise but: aph imitation learning unsupervised learning ans adver over-smoothing interpretable tabular anomaly Dersonalization nerscherzense preference-asset length warped time length warped time emporal time series nierarchical time series learning discrete-time dynamic data stream language model S N D aspect planning lexical tabular C ā. heterogeneity learning domain forecasting greedy algorithm inventory prediction contract diffusion model earning contrastive 4S reinforcement learning communication efficien personali few self-supervised learning knowledge attribute representation learning domain generalization shapley value estimation few-shot text model selection node classification anomaly detection scalability spatio-temporal data mining attention semi-supervised learning data augmentation dual attention contrastive E. multi-task learning locality sensitive spatio-temporal data analysis graph recommendation hierarchical

It is all about OpenReview!

(reviews/responses are not released publicly this year)

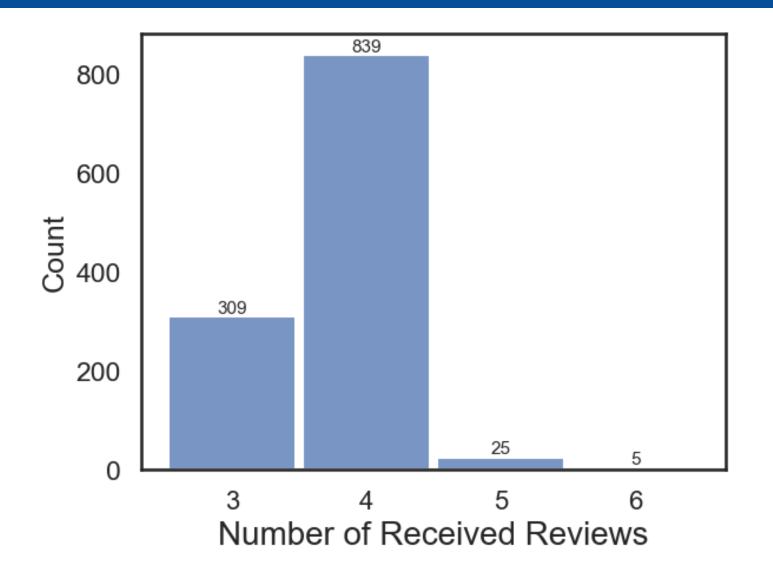


OpenReview

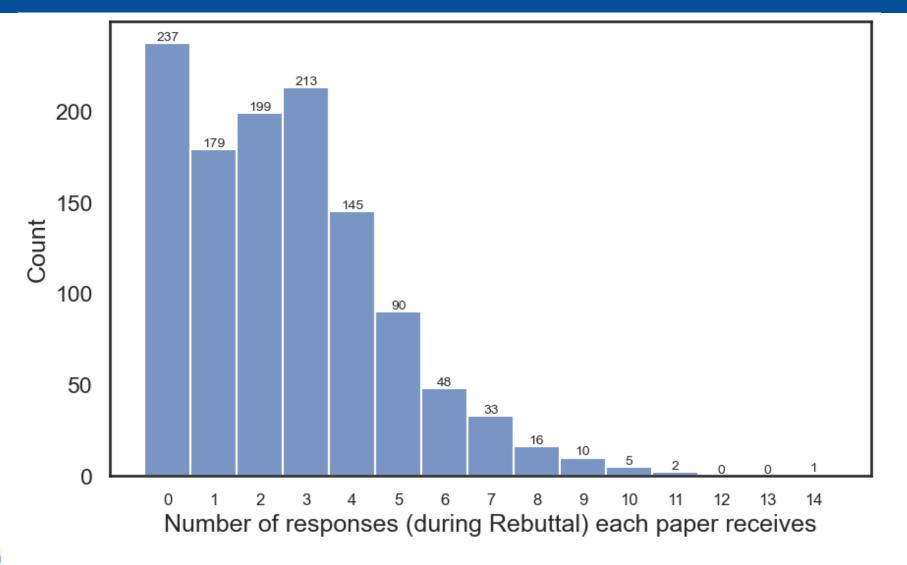
- 1. Workflow chairs were critical in using OpenReview. Thank you for your exceptional work Yu, Yue, Ziniu!
- 2. We did not leverage OpenReview fully since the reviews are not public this year.
- 3. Nevertheless, used OpenReview essentially as a proof of concept this year:
 - Managing a huge workload using OpenReview is feasible.
 - OpenReview does facilitate more interaction between authors and reviewers.



Number of Received Reviews

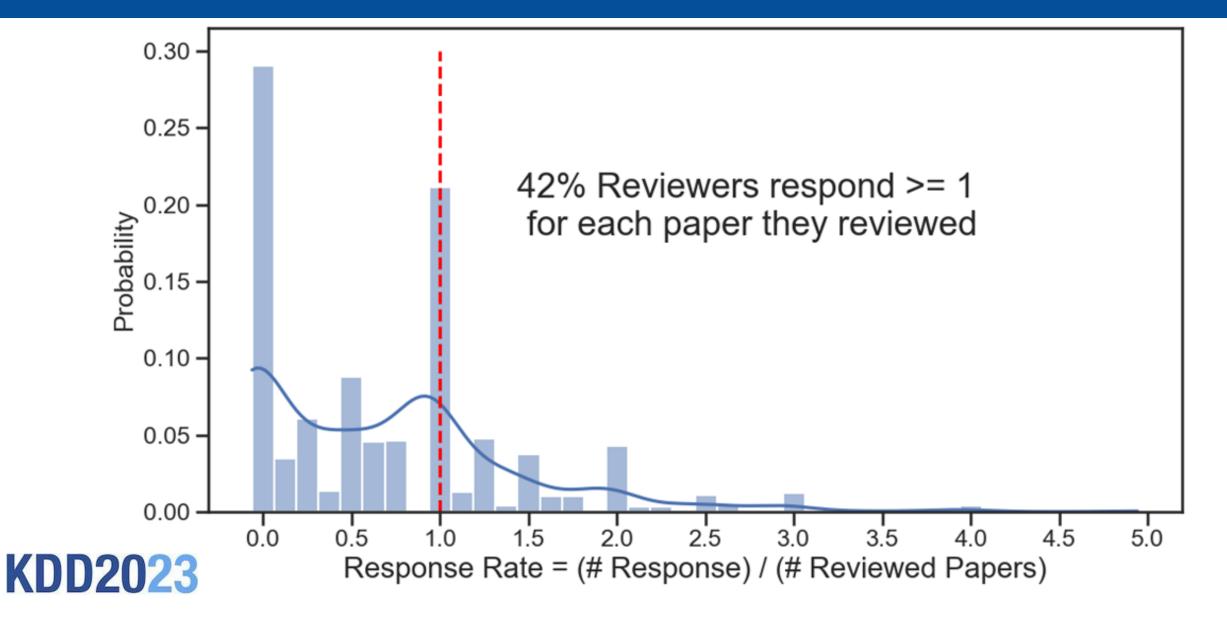


Number of Responses During Rebuttal

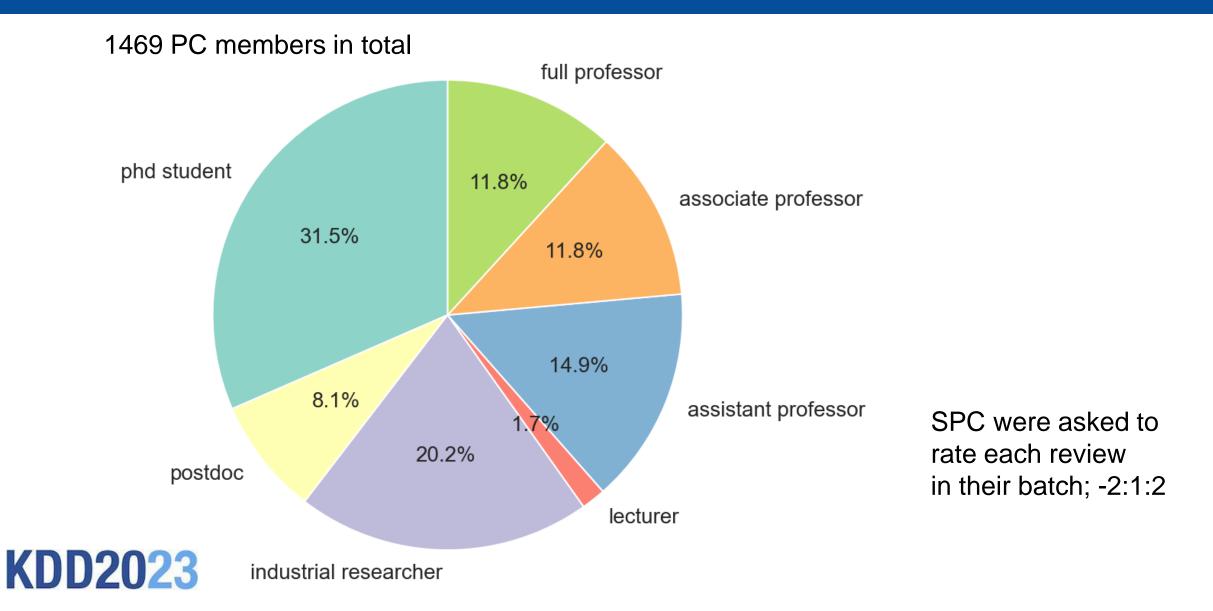




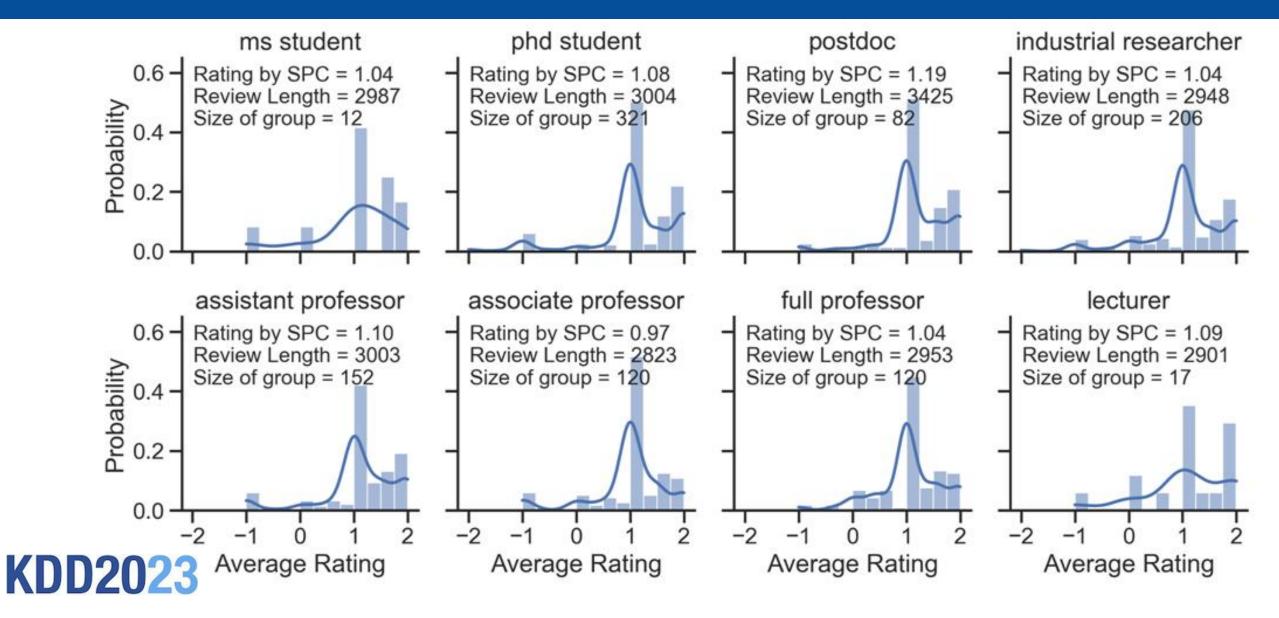
Response Rate per Reviewers



PC Distribution by Group



Review Quality per Group



Best Reviewers (Criteria: Rating & Interaction)

Anes Bendimerad Aniek F. Markus Antoine Ledent Atsushi Miyauchi Buse G. A. Tekqul Chengkai Li Christopher John Quinn David Guijo Dayne Freitag Esther Galbrun Francesco Gullo Germain Forestier Hanzhi Wang Hongwei Jin Jie Wang John Paparrizos

KDD2023

Institut National des Sciences Appliquées de Lyon Erasmus MC Singapore Management University **CENTAI** Institute Nokia Bell Labs University of Texas at Arlington Iowa State University Rubio University of East Anglia SRI International University of Eastern Finland UniCredit Université de Haute-Alsace Renmin University of China Argonne National Laboratory University of Science and Technology of China Ohio State University, Columbus

Best Reviewers (Criteria: Rating & Interaction)

Jun Wu Lu Qin Marco Bressan Ronny Luss Shichang Zhang Siddhartha Laghuvarapu Sungwon Park Xuemin Lin Yi He Yizhu Jiao Yu Zhang Yuhan Wu Zhenya Huang Zhong Chen

University of Illinois, Urbana Champaign University of Technology Sydney University of Milan IBM University of California, Los Angeles University of Illinois, Urbana Champaign Korea Advanced Institute of Science and Technology Shanghai Jiaotong University **Old Dominion University** University of Illinois, Urbana Champaign University of Illinois, Urbana Champaign Peking University University of Science and Technology of China Xavier University of Louisiana

