

Winter 2024, Comp-8390 (60-539) Seminar Topic List from ACM KDD 2023, ACM SIGMOD 2023/2022 and VLDB 2023 conference proceedings or some earlier articles in the Most cited list.

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Please, select your seminar paper (equivalent to a full paper of 8 to 15 pages), obtain it from the web and make copies available to your seminar grading group. Use the provided information for around 12 people in the seminar grading group that will be grading your seminar so you can make copies of your paper for them. There may be only one seminar grading group if not more than 10 students in class. You can select more than one paper to have equivalent of a full paper if you select trendy papers with fewer pages.

Seminar papers from ACM KDD 2023 (listed in section A) and SIGMOD conference proceedings 2023/2022 (listed in section B) can be obtained through the university of Windsor online ACM digital library: go to <https://leddy.uwindsor.ca>, click Resources by Subject, then Computer Science, then All Computer Science Research Databases, click on connect of ACM digital library, log on with your library card bar code or UWindsor userid and password, and look for proceedings, then look for ACM KDD 2023 or SIGMOD 2023, look for your seminar paper and print it. Papers from VLDB 2023 conference proceedings are listed in section C and can be downloaded directly through www.google.com or through <http://vldb.org/pvldb/vol14-volume-info/>.

A. Seminar Papers from ACM SIGKDD conference proceedings. Please, provide full particulars of the paper when picked. To download these papers, go to <https://leddy.uwindsor.ca>, click Resources by Subject, then Computer Science, then All Computer Science Research Databases, click on connect of ACM digital library, log on with your library card bar code or UWindsor userid and password, and look for proceedings, then look for ACM KDD 2023 to download the papers.

A. These papers are from the SigKDD 2023 Regular Paper Sessions

1. Minimizing Hitting Time between Disparate Groups with Shortcut Edges

Florian Adriaens, Honglian Wang, Aristides Gionis

pp 1–10 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599434>

2. Maximizing Neutrality in News Ordering

Rishi Advani, Paolo Papotti, Abolfazl Asudeh

pp 11–24 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599425>

3. Fair Allocation Over Time, with Applications to Content Moderation

Amine Allouah, Christian Kroer, Xuan Zhang, Vashist Avadhanula, Nona Bohanon, + 6

pp 25–35 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599340>

4. *LEA: Improving Sentence Similarity Robustness to Typos Using Lexical Attention Bias*

Mario Almagro, Emilio Almazán, Diego Ortego, David Jiménez
pp 36–46<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599402>

5. *Rank-heterogeneous Preference Models for School Choice*

Amel Awadelkarim, Arjun Seshadri, Itai Ashlagi, Irene Lo, Johan Ugander
pp 47–56<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599484>

6. *Knowledge Graph Reasoning over Entities and Numerical Values*

Jiaxin Bai, Chen Luo, zheng li, Qingyu Yin, Bing Yin, Yangqiu Song
pp 57–68<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599399>

7. *Communication Efficient and Differentially Private Logistic Regression under the Distributed Setting*

Ergute Bao, Dawei Gao, Xiaokui Xiao, Yaliang Li
pp 69–79<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599279>

8. *Connecting the Dots -- Density-Connectivity Distance unifies DBSCAN, k-Center and Spectral Clustering*

Anna Beer, Andrew Draganov, Ellen Hohma, Philipp Jahn, Christian M.M. Frey,+ 1
pp 80–92<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599283>

9. *Sketch-Based Anomaly Detection in Streaming Graphs*

Siddharth Bhatia, Mohit Wadhwa, Kenji Kawaguchi, Neil Shah, Philip S. Yu,+ 1
pp 93–104<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599504>

10. *Preemptive Detection of Fake Accounts on Social Networks via Multi-Class Preferential Attachment Classifiers*

Adam Breuer, Nazanin Khosravani, Michael Tingley, Bradford Cottle
pp 105–116<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599471>

11. *On Improving the Cohesiveness of Graphs by Merging Nodes: Formulation, Analysis, and Algorithms*

Fanchen Bu, Kijung Shin
pp 117–129<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599449>

12. *MBrain: A Multi-channel Self-Supervised Learning Framework for Brain Signals*

Donghong Cai, Junru Chen, Yang Yang, Teng Liu, Yafeng Li
pp 130–141 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599426>

13. *When to Pre-Train Graph Neural Networks? From Data Generation Perspective!*

Yuxuan Cao, Jiarong Xu, Carl Yang, Jiaan Wang, Yunchao Zhang,+ 3
pp 142–153 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599548>

14. *Privacy Matters: Vertical Federated Linear Contextual Bandits for Privacy Protected Recommendation*

Zeyu Cao, Zhipeng Liang, Bingzhe Wu, Shu Zhang, Hangyu Li,
Ouyang Wen,+ 2
pp 154–166 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599475>

15. *Efficient Coreset Selection with Cluster-based Methods*

Chengliang Chai, Jiayi Wang, Nan Tang, Ye Yuan, Jiabin Liu, Yuhao Deng,+ 1
pp 167–178 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599326>

16. *SURE: Robust, Explainable, and Fair Classification without Sensitive Attributes.* Deepayan Chakrabarti

pp 179–189 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599514>

17. *Data-Efficient and Interpretable Tabular Anomaly Detection*

Chun-Hao Chang, Jinsung Yoon, Sercan Ö. Arik, Madeleine Udell,
Tomas Pfister
pp 190–201 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599294>

18. *IPOC: An Adaptive Interval Prediction Model based on Online Chasing and Conformal Inference for Large-Scale Systems*

Jiadong Chen, Yang Luo, Xiuqi Huang, Fuxin Jiang, Yangguang Shi,+ 2
pp 202–212 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599396>

19. *On Hierarchical Disentanglement of Interactive Behaviors for Multimodal Spatiotemporal Data with Incompleteness*

Jiayi Chen, Aidong Zhang
pp 213–225 <https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599448>

20. *Open-Set Semi-Supervised Text Classification with Latent Outlier Softening*

Junfan Chen, Richong Zhang, Junchi Chen, Chunming Hu, Yongyi Mao
pp 226–236<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599456>

21. *Improving Expressivity of GNNs with Subgraph-specific Factor Embedded Normalization*

Kaixuan Chen, Shunyu Liu, Tongtian Zhu, Ji Qiao, Yun Su, Yingjie Tian,+ 5
pp 237–249<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599388>

22. *Approximation Algorithms for Size-Constrained Non-Monotone Submodular Maximization in Deterministic Linear Time*

Yixin Chen, Alan Kuhnle
pp 250–261<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599259>

23. *Accelerating Personalized PageRank Vector Computation*

Zhen Chen, Xingzhi Guo, Baojian Zhou, Deqing Yang, Steven Skiena
pp 262–273<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599251>

24. *Neural-Hidden-CRF: A Robust Weakly-Supervised Sequence Labeler*

Zhijun Chen, Hailong Sun, Wanhao Zhang, Chunyi Xu, Qianren Mao,
Pengpeng Chen
pp 274–285<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599445>

25. *Shilling Black-box Review-based Recommender Systems through Fake Review Generation*

Hung-Yun Chiang, Yi-Syuan Chen, Yun-Zhu Song, Hong-Han Shuai,
Jason S. Chang
pp 286–297<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599502>

26. *Classification of Edge-dependent Labels of Nodes in Hypergraphs*

Minyoung Choe, Sunwoo Kim, Jaemin Yoo, Kijung Shin
pp 298–309<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599274>

27. *Reducing Exposure to Harmful Content via Graph Rewiring*

Corinna Coupette, Stefan Neumann, Aristides Gionis
pp 323–334<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599489>

28. *Below the Surface: Summarizing Event Sequences with Generalized Sequential Patterns*

Joscha Cüppers, Jilles Vreeken

pp 348–357<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599264>

29. *Below the Surface: Summarizing Event Sequences with Generalized Sequential Patterns*

Joscha Cüppers, Jilles Vreeken

pp 348–357<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599264>

30. *Contrastive Learning for User Sequence Representation in Personalized Product Search*

Shitong Dai, Jiongnan Liu, Zhicheng Dou, Haonan Wang, Lin Liu, Bo Long,+ 1

pp 380–389<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599287>

31. *MetricPrompt: Prompting Model as a Relevance Metric for Few-shot Text Classification*

Hongyuan Dong, Weinan Zhang, Wanxiang Che

pp 426–436<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599430>

32. *Investigating Trojan Attacks on Pre-trained Language Model-powered Database Middleware*

Peiran Dong, Song Guo, Junxiao Wang

pp 437–447<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599395>

33. *Localised Adaptive Spatial-Temporal Graph Neural Network*

Wenyong Duan, Xiaoxi He, Zimu Zhou, Lothar Thiele, Hong Rao

pp 448–458<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599418>

34. *3D-Polishing for Triangular Mesh Compression of Point Cloud Data*

Jiaqi Gu, Guosheng Yin

pp 557–566<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599239>

35. *On Manipulating Signals of User-Item Graph: A Jacobi Polynomial-based Graph Collaborative Filtering*

Jiayan Guo, Lun Du, Xu Chen, Xiaojun Ma, Qiang Fu, Shi Han,+ 2

pp 602–613<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599450>

36. *GAT-MF: Graph Attention Mean Field for Very Large Scale Multi-Agent Reinforcement Learning*

Qianyue Hao, Wenzhen Huang, Tao Feng, Jian Yuan, Yong Li
pp 685–697<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599359>

37. *CLUR: Uncertainty Estimation for Few-Shot Text Classification with Contrastive Learning*

Jianfeng He, Xuchao Zhang, Shuo Lei, Abdulaziz Alhamadani, Fanglan Chen,+ 2
pp 698–710<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599276>

38. *Machine Unlearning in Gradient Boosting Decision Trees*

Huawei Lin, Jun Woo Chung, Yingjie Lao, Weijie Zhao
pp 1374–1383<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599420>

39. *Learning Strong Graph Neural Networks with Weak Information*

Yixin Liu, Kaize Ding, Jianling Wang, Vincent Lee, Huan Liu, Shirui Pan
pp 1559–1571<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599410>

40. *Online Level-wise Hierarchical Clustering*

Nicholas Monath, Manzil Zaheer, Andrew McCallum
pp 1733–1745<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3580305.3599455>

B. Seminar Papers from ACM SIGMOD Conference 2023

Follow the same steps as described for A above and find Sigmod 2023 papers. This may be papers from Sigmod series of conferences like RecSys, SigAp, etc. These are sometimes, shorter papres and you may need two of such for your full paper.

41. RESEARCH-ARTICLE

RecSys Challenge 2023 Dataset: Ads Recommendations in Online Advertising
Rahul Agrawal, Sarang Brahme, Sourav Maitra, Abhishek Srivastava, Athirai Irissappane, Yong Liu,+ 1
pp 1–3<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3627283>.

42. RESEARCH-ARTICLE

Integrating Explicit and Implicit Feature Interactions for Online Ad Installation Forecasting
Jiawei Jiang, Bing Wang, Jingyuan Wang
pp 4–8<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3626223>

43. RESEARCH-ARTICLE

Lightweight Boosting Models for User Response Prediction Using Adversarial Validation

Hyeonwoo Kim, Wonsung Lee

pp 9–13<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3626225>

44. RESEARCH-ARTICLE

A Simple and Robust Ensemble For Click-Through Rate Prediction

Xingmei Wang, Yankai Wang, Defu Lian

pp 14–17<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3626231>

45. RESEARCH-ARTICLE

Large Scale CVR Prediction through Hierarchical History Modeling

Qi Zhang, Zhibin Zhang, Biao Lu, Bangzheng He, Liangbi Li, Zhenhua Dong

pp 18–22<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3627284>

46. RESEARCH-ARTICLE

Robust User Engagement Modeling With Transformers and Self Supervision

Yichao Lu, Maksims Volkovs

pp 23–27<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3627285>

47. RESEARCH-ARTICLE

Capturing Performance and Privacy by Assembling Avengers of Online Advertising

Taehee Kim, Seungyun Baek, Taehyeon Jeon, Hojin Jung, Joonhong Kim, Taeho Lee

pp 28–32<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3627286>

48. RESEARCH-ARTICLE

Pessimistic Rescaling and Distribution Shift of Boosting Models for Impression-Aware Online Advertising Recommendation

Paolo Basso, Arturo Benedetti, Nicola Cecere, Alessandro Maranelli, Salvatore Marragony, + 5

pp 33–38<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3627288>

49. RESEARCH-ARTICLE

A Simple yet Strong Approach for Installation Prediction in ShareChat Ads

Xiaoteng Shen, Liangcai Su, Zhutian Lin, Xiao Xi

pp 39–43<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3627289>

50. RESEARCH-ARTICLE

Graph Enhanced Feature Engineering for Privacy Preserving Recommendation Systems

Chendi Xue, Xinyao Wang, Yu Zhou, Poovaiah Palangappa, Rita Brugarolas Brufau, + 4

pp 44–51<https://doi-org.ledproxy2.uwindsor.ca/10.1145/3626221.3627290>

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C. Seminar Papers from the VLDB (Conference on Very Large Databases) 2023 are:

You may get these papers through searching for VLDB conference paper with www.google.com or through

<http://vldb.org/pvldb/volumes/17> . Get these papers by searching Leddy library with title and/or author.

51. Volume 17, No. 1, pp 1-14

FedGTA: Topology-aware Averaging for Federated Graph Learning

Authors:

Xunkai Li, Zhengyu Wu, Wentao Zhang, Yinlin Zhu, Ronghua Li, Guoren Wang

52. Volume 17, No. 1, pp 15-27

Efficient Dynamic Weighted Set Sampling and Its Extension

Authors:

Fangyuan Zhang, Mengxu Jiang, Sibowang

53. Volume 17, No. 1, pp. 28-40

ZIP: Lazy Imputation during Query Processing

Authors:

Yiming Lin, Sharad Mehrotra

54. Volume 17, No. 1, pp. 41-50

FedGTA: Topology-aware Averaging for Federated Graph Learning

Authors:

Xunkai Li, Zhengyu Wu, Wentao Zhang, Yinlin Zhu, Ronghua Li, Guoren Wang

55. Volume 17, No. 1, 51-64

Host Profit Maximization: Leveraging Performance Incentives and User Flexibility

Authors:

Xueqin Chang, Xiangyu Ke, Lu Chen, Congcong Ge, Ziheng Wei, Yunjun Gao