siam 2023

International Conference on Data Mining

April 27–29, 2023 | Graduate Minneapolis Hotel | Minneapolis, Minnesota, U.S.

Online Program

Attendees are encouraged to visit
https://www.siam.org/conferences/cm/program/program-and-abstracts/sdm23-program-abstracts
to view the Online Program Schedule.

The Online Program Schedule contains the most up-to-date information.
A searchable abstract document is also posted.

Workshops follow their own posted schedule. BOTH workshop and tutorial participants
are strongly encouraged to consult the workshop and tutorial websites for session details.

Wednesday, April 26

5:00 p.m. – 7:00 p.m.
Registration
2nd Floor Foyer

Thursday, April 27

7:15 a.m. – 4:30 p.m.
Registration
2nd Floor Foyer

7:30 a.m. – 8:15 a.m.
Continental Breakfast
Meridian Ballroom

8:00 a.m. – 8:15 a.m.
Welcome Remarks and Best Paper Award
Announcement
Pinnacle Ballroom

8:15 a.m. – 9:30 a.m.
IP1 - Interdisciplinary Modeling to Explore
Interventions for Disaster Preparation and Response
Yolanda Gil, University of Southern California, U.S.
Pinnacle Ballroom

9:30 a.m. – 10:00 a.m.
Coffee Break
Meridian Ballroom

10:00 a.m. – 12:00 p.m.
Concurrent Sessions
MT1 Augmentation Methods for Graph Learning
Think 4
CP1 Social Networks/Graph Data I
Pinnacle Ballroom
CP2 Recommender Systems
Think 1
CP3 Clustering
Think 3

10:00 a.m. – 6:00 p.m.
Concurrent Sessions
WS1 Full Day Workshop - Algorithmic Fairness
in Artificial intelligence, Machine Learning and
Decision Making
Think 5
WS2 Full Day Workshop - Data Science for Smart
Manufacturing and Healthcare
Pathways

12:00 p.m. – 1:30 p.m.
Lunch Break
Attendees on their own

Thursday, April 27

1:30 p.m. – 3:30 p.m.
Concurrent Sessions
MT2 Tackling Climate Change with Machine
Learning: Opportunities, Challenges, and
Considerations
Think 4
CP4 Social Networks/Graph Data II
Pinnacle Ballroom
CP5 Spatial/Temporal Data I
Think 1
CP6 Classification
Think 3

3:30 p.m. – 4:00 p.m.
Coffee Break
Meridian Ballroom

4:00 p.m. – 5:00 p.m.
PD1 The Future of Digital Health
Pinnacle Ballroom

5:00 p.m. – 6:00 p.m.
Dinner Break
Attendees on their own

6:00 p.m. – 8:00 p.m.
Welcome Reception and Poster Session I
(posters from sessions CP1 - CP11
& Blue Sky Session)
Meridian Ballroom

Friday, April 28

7:30 a.m. – 3:45 p.m.
Registration
2nd Floor Foyer

7:30 a.m. – 8:15 a.m.
Continental Breakfast
Meridian Ballroom

8:00 a.m. – 8:15 a.m.
Remarks
Pinnacle Ballroom

8:15 a.m. – 9:30 a.m.
IP2 AI-Enabled Scientific Revolution
Wei Ding, National Science Foundation, U.S.
Pinnacle Ballroom

9:30 a.m. – 10:00 a.m.
Coffee Break
Meridian Ballroom

Friday, April 28

10:00 a.m. – 12:00 p.m.
Concurrent Sessions
MT3 Data-Efficient Graph Learning
Think 4
MT4 Algorithmic Fairness on Graphs:
State-of-the-Art and Open Challenges
Think 5
CP7 Social Networks/Graph Data III
Pinnacle Ballroom
CP8 Spatial/Temporal Data II
Think 1
CP9 Applications I
Think 3
CP22 Blue Sky Presentation Session
Pathways

12:00 p.m. – 1:30 p.m.
Lunch Break
Attendees on their own

1:30 p.m. – 2:45 p.m.
IP3 Towards Trustworthy and Responsible AI/ML
Joydeep Ghosh, University of Texas at Austin, U.S.
Pinnacle Ballroom

2:45 p.m. – 3:15 p.m.
Coffee Break
Meridian Ballroom

3:15 p.m. – 5:15 p.m.
Concurrent Sessions
PD2 Doctoral Forum Panel
Pinnacle Ballroom
MT5 Contrastive Learning:
A Heterogeneous Perspective
Think 4
MT6 How to Design a Fair Data Mining System:
Navigating the Trade-Offs
Think 5
CP10 Social Networks/Graph Data IV
Pathways
CP11 Spatial/Temporal Data III
Think 1
CP12 Applications II
Think 3

5:15 p.m. – 6:00 p.m.
PD3 Networking Session for Underrepresented
Groups
Pinnacle Ballroom

6:00 p.m. – 8:00 p.m.
Poster Session II
(posters from sessions CP12 - CP21
& Doctoral Forum Posters)
Meridian Ballroom

Saturday, April 29

7:30 a.m. – 2:00 p.m.
Registration
2nd Floor Foyer

7:30 a.m. – 8:15 a.m.
Continental Breakfast
Meridian Ballroom

8:00 a.m. – 10:00 a.m.
Concurrent Sessions
MT7 Continual Graph Learning
Think 5
MT8 When Mining Healthcare Data Meets AI Ethics: Towards Privacy-preservation, Fairness and Trustworthy
Pathways
CP13 Deep Learning I
Pinnacle Ballroom
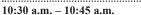**CP14** Foundations I
Think 1
CP15 Applications III
Think 3
CP16 Anomaly Detection
Think 4

10:00 a.m. – 10:30 a.m.
Coffee Break
Meridian Ballroom

10:30 a.m. – 10:45 a.m.
Closing Remarks and Poster Award Announcements
Pinnacle Ballroom

10:45 a.m. – 12:00 p.m.
IP4 Relational Causal Models
Vasant Honavar, Pennsylvania State University, U.S.
Pinnacle Ballroom

12:00 p.m. – 1:30 p.m.
Lunch Break
Attendees on their own

1:30 p.m. – 3:30 p.m.
Concurrent Sessions
MT9 Deep Learning with Nontrivial Constraints
Pathways
CP17 Deep Learning II
Pinnacle Ballroom
CP18 Foundations II
Think 1
CP19 Applications IV
Think 3
CP20 Fairness, Privacy
Think 4
CP21 Text, Web, Social Media
Think 5

Key to abbreviations and symbols

☕ = **Coffee Break**

🍷 = **Refreshments Served**

🍽 = **Continental Breakfast**

📋 = **Poster Session**

CP = **Contributed Presentation Session**

IP = **Invited Plenary Speaker**

MT = **Tutorial**

PD = **Panel Discussion**

FIRST FLOOR

TOPGOLF SWING SUITE®

FOCUS BOARDROOM

THINK 1

THINK 2

THINK 3

THINK 4

THINK 5

PRIMP ROOM

W.C.

ELEVATOR

W.C.

STAIRS

SERVICE AREA

PATHWAYS ROOM

PINNACLE FOYER

MERIDIAN FOYER

SECOND FLOOR

STORAGE

MERIDIAN BALLROOM

SUMMIT ROOM

PINNACLE BALLROOM

PINNACLE TERRACE

MERIDIAN TERRACE