

The 2023 Classification Society Annual Meeting Program

University of Rochester, Rochester, New York, USA, June 14 – 17, 2023

Specific locations:

- The welcome reception will be in The Saunders Building Atrium.
- The poster session will be in The Saunders Building Atrium.
- Presentations will be held in The Saunders Building, room 1.416.
- The Classification Society General Meeting will be held in The Saunders Building, room 1.416.
- The Classification Society board meeting will be held in The Saunders Building, room 4.215
- The Journal of Classification editorial board meeting will be held in The Saunders Building, room 1.410.
- The Banquet will be held in The Hilton Garden Inn, *Salon A*.

The Classification Society would like to thank Springer and the University of Rochester for support of the meeting.

Wednesday, June 14

6:00 - 9:00pm

Welcome Reception/ Registration

Thursday, June 15

8:30am

Registration

8:45am

Opening Remarks

Provost David Figlio

University of Rochester

9:00am

President's Invited Address

Chair: Tanzy Love

Cluster Analysis via Random Partition Distributions

David B. Dahl

10:00am

Coffee Break

10:30am

Contributed Session 1

Chair: Paul McNicholas

Trimming Outliers in Matrix-Variate Normal Mixtures using the OCLUST Algorithm

Kat Clark

High Dimensional Multivariate Count Data Clustering with a Family of Mixtures of Multivariate Poisson Log-Normal Distributions

Andrea Payne

A Novel Clustering Method for High-Dimensional, Dependent Data with a Non-Linear Outcome

Samantha Manning

11:30am

Lunch Break

1:00pm

Invited lecture

Chair: Chia-Yi Chiu

Identifiability of Cognitive Diagnosis Models

Gongjun Xu

2:00pm

Coffee Break

2:30pm

Invited session 1

Chair: Jeff Andrews

Advancing restricted hidden Markov models for diagnostic research

Steven Andrew Culpepper

A Bayesian mixture of finite mixtures for jointly modeling ratings and rankings

Elena Erosheva

Variable Selection and Binary Prediction with Incomplete Data: Balance between Fairness and Precision

Chun Wang

4:00pm

Poster Session

Friday, June 16

9:00am	President's Address <i>An approach to model-based clustering of mixed-type data with variable selection</i> Tanzy Love	Chair: Abby Flynt
10:00am	Coffee Break Journal of Classification editorial board meeting	
10:30am	Invited Session 2 <i>Reconstructing cancer evolution as a Bayesian co-clustering problem</i> Seong-Hwan Jun <i>Tensor classification methods for multi-way biological data</i> Eric Lock <i>Bayesian clustering approaches to improve population health disparities research</i> Briana Stephenson	Chair: Sanjeena Dang
12:00pm	Lunch Break Classification Society Board Meeting	
2:00pm	Contributed Session 2 <i>New development in cognitive diagnosis: Nonparametric approach for multiple-choice items</i> Chia-Yi Chiu <i>Multiple Choice Items in Cognitive Diagnosis: Proper and Useful Distractors</i> Hans Friedrich Koehn <i>Informing pandemic intervention strategies through coupled contact tracing and network node prioritization</i> Rachael Hageman Blair	Chair: Meredith Wallace
3:00pm	Coffee Break	
3:30pm	2023 Distinguished Dissertation Award Lecture <i>Enhancing Classification and Regression Tree-Based Models by Means of Mathematical Optimization</i> Cristina Molero-Rio	Chair: Stephen France
4:30pm	Classification Society General Meeting	
5:30pm	Banquet	

Saturday, June 17

9:00am	Invited Session 3 <i>Ranking-based variable selection for unsupervised classification</i> Jeff Andrews <i>Latent class proportional hazards regression with heterogeneous survival data</i> Teng Fei <i>Clustering matrix-variate discrete data</i> Sanjeena Dang	Chair: Brian Franczak
10:30am	Coffee Break	
11:00am	Contributed Session 3 <i>Clustering microbiome data using mixtures of logistic normal multinomial models</i> Yuan Fang <i>Use and Misuse of Machine Learning Variable Importance Metrics in Medicine: Demonstrations through Incident Stroke Prediction</i> Meredith Wallace <i>Kernel metric learning for clustering financial behaviours</i> John Thompson	Chair: Xu (Sunny) Wang
12:00pm	Closing Remarks	