

Thursday 6/5/2008

- 9:00a - 12:30p:** Short Course - Introduction to Cluster Analysis - Dave Dubin
 Category: Unfiled
 Note: Introduction to Cluster Analysis
 Dave Dubin
 University of Illinois
- 1:30p - 3:30p:** Invited Session - High Dimensional Data
 Category: Unfiled
 Note: 1) Single linkage cluster analysis as a tool for hypervariate outlier detection prior to classification, Peter L. Flom, BrainScope, Inc
 2) Nonparametric Clustering on Mixtures of Longitudinal/Functional Data, Haiyan Wang, Kansas State University
- 3:45p - 5:45p:** Invited Session - Partition Models
 Category: Unfiled
 Note: 1) Nested Dirichlet Processes, Abel Alonso, U. California Santa Cruz
 2) Using Gene Annotation as Prior Information in Bayesian Nonparametric Models, David Dahl, Texas A&M University
 3) Bayesian Clustering with Regression, Peter Mueller, M.D. Anderson Cancer Center
- 6:00p - 9:00p:** Reception
 Category: Unfiled

Friday 6/6/2008

- 8:30a - 10:30a:** Session
 Category: Unfiled
 Note: 1) The Ultrametric Topology Perspective on Analysis of Massive, Very High Dimensional Data Stores, Fionn Murtagh Science Foundation Ireland, Dublin, Ireland, and Department of Computer Science, Royal Holloway, University of London
 2) Elemental Set Methods, David Banks Duke University
 3) The Evolution of Up-and-Down designs for Hazard Classification and Other Uses, Nancy Flournoy, University of Missouri
- 10:45a - 12:45p:** Session
 Category: Unfiled
 Note: 1) A Mathematical Statistics Formulation of the Teleseismic Explosion Identification

Problem with Multiple Discriminants, D. N. Anderson, D. K. Fagan, M. A. Tinker, G. D. Kraft, and K. D. Hutchenson

2) Similarity Analysis and its Applications for Bayesian Clustering, Fernando A. Quintana, Departamento de Estadística, Pontificia Universidad Católica de Chile

3) A Branch-and-Cut SDP-based Algorithm for Minimum Sum-of-Squares Clustering, Daniel Aloise, École Polytechnique de Montréal

- 10:45a - 12:45p:** Invited Session
 Category: Unfiled
 Note: 1) Microarray Analysis Using Survival Techniques, Tony Sun, University of Missouri – Columbia
 2) A Linear Mixed Model, Fixed or Random Effects?, Dongchu Sun and Fei Liu, University of Missouri-Columbia
 3) Multivariate Density Estimates using Geometric Methods, Leonard B Hearne, University of Missouri at Columbia

12:45p - 2:15p: Lunch/Board Meeting
 Category: Unfiled

2:15p - 3:30p: Keynote
 Category: Unfiled
 Note: Michael O'Brien
 Seriation and archeology

- 3:45p - 5:45p:** Biology
 Category: Unfiled
 Note: 1) Permanent Classification Model with Application to Microarray Analysis, Jie Yang, University of Illinois at Chicago
 2) Simultaneous Cancer Classification and Gene Selection with Bayesian Nearest Neighbor Method: An Integrated Approach, SOUNAK CHAKRABORTY, University of Missouri-Columbia
 3) Hierarchical Signal Regression / Classification with Application to Phenotypic Selection, Christopher K. Wikle, University of Missouri, Department of Statistics, Scott H. Holan, University of Missouri, Department of Statistics

6:00p - 9:00p: Dinner Buffet and Reception
 Category: Unfiled

Saturday 6/7/2008

- 8:30a - 10:30a:** Viruses
 Category: Unfiled
 Note
- 1) Introduction to virus detection using custom microarrays, David Wang, Washington University in St. Louis
 - 2) A probabilistic algorithm for viral detection via microarray, Adam Allred Washington University in St. Louis
 - 3) Combining hierarchies and linear discriminant analysis to classify virus species, Bill Shannon, Washington University in St. Louis
- 10:45a - 12:45p:** Single Linkage
 Category: Unfiled
 Note
- 1) Visualizing Hierarchical Cluster Structure via Linkage Algorithms, Rebecca Nugent, Carnegie Mellon University
 - 2) Augmenting Model-Based Clustering with Generalized Linkage Methods, Nema Dean, University of Glasgow
 - 3) Visualizing and Clustering Students' Skill Sets in a Unit Hyper-cube, Beth Ayers Carnegie Mellon University
- 10:45a - 12:45p:** Session
 Category: Unfiled
 Note
- 1) MCS: A Method for Finding the Number of Clusters, Ahmed N. Albatineh; Nova Southeastern University, Fort Lauderdale, FL
 - 2) Selection of a Representative Sample, Herbie Lee, University of California, Santa Cruz
 - 3) Minimum Sum-of-Squares Clustering, the p-median and affinity propagation, Pierre Hansen, GERAD and HEC Montréal
- 12:45p - 2:00p:** Lunch
 Category: Unfiled
- 2:00p - 2:45p:** Members Meeting
 Category: Unfiled
- 3:00p - 5:00p:** Session
 Category: Unfiled
 Note
- 1) The use of covariates in multivariate regression tree analysis in an ecological setting, Marie-Hélène Ouellette, Université de Montréal

- 2) Ventilator Associated Pneumonia diagnosis using microarray data, Nan Lin, Washington University in St. Louis, Qing Li, Washington University in St. Louis

- 3) Horseshoe effects in multiple correspondence analysis: Distance transformations that let them disappear, Willem J. Heiser and Matthijs Warrens, Leiden University

3:00p - 5:00p:

Category:

Note

Measures of Agreement

Unfiled

- 1) A Correction of Jaccard and Other Similarity Indices for Chance Agreement in Cluster Analysis

Presenter: Ahmed N. Albatineh; Nova Southeastern University, Fort Lauderdale, FL

- 2) Measures of agreement: A guide for applied researchers, Gretchen Hendrickson/University of Columbia

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