

**June 17, 2010**

Thursday

**8:30 AM - 8:45 AM**

**Opening**

**9:00 AM - 10:15 AM**

**Keynote Address**

9:00-10:15 Hans Bock, Time series clustering

**10:30 AM - 12:15 PM**

**Metagenomics**

10:30-11:05 Bill Shannon, Statistical Tools to Process and Analyze Human Microbiome Data

11:05-11:40 Sue Huse, Effect of clustering method on the estimated richness of microbial communities

11:40-12:15 Dan Knights, Supervised Classification of Human Microbiota

**12:15 PM - 1:00 PM**

**Lunch Provided**

**1:00 PM - 2:20 PM**

**Dissertation Award Winners**

1:00-1:40 Daniel Aloise, An improved column generation algorithm for minimum sum-of-squares clustering

1:40-2:20 T. Siva Tian, Dimensionality Reduction for Classification with High-Dimensional Data

**2:45 PM - 4:30 PM**

**Session**

2:45-3:20 Dale Josephs, Effects of Feature Selection on the Classification of Spoken and Written English

3:20-3:55 Tim Brennan, Classifying Criminals: A multi-axial taxonomy of a prison inmate population

3:55-4:30 Bernie Harris, TBA

**5:00 PM - 7:00 PM**

**Board Meeting**

**June 18, 2010**

Friday

**9:00 AM - 10:15 AM**

**Keynote address**

9:00-10:15 Elizabeth Homan, Statistical Methods in Text Analysis

**10:30 AM - 12:15 PM**

**Session**

10:30-11:05 Douglas Steinley, Finding Multiple Cluster Structures: All Variables Are Not Created Equal

11:05-11:40 Jia Wang, Functional Data Analysis of Actigraphy Data for Identifying Fatigue Patterns in Depressed and Non-Depressed Patients

11:40-12:15 Willem J. Heiser, Detecting Positive Regression Dependence Using the

## June 18, 2010 Continued

Friday

Dominant Axis of Correspondence Analysis

**12:15 PM - 1:15 PM**

**Lunch and Membership Meeting**

**1:15 PM - 3:35 PM**

**Session**

1:15-1:50 Justin H. Gross, Current Issues in Automated Content Analysis for Political Science

1:50-2:25 Markus Breitenbach, Validating taxonomic structure using Bayes-Optimal Misclassification Probability Bounds

2:25-3:00 Arthur J. Kendall, A modern look at Historical Papers

3:00-3:35 Stephen France, Selecting Attributes for Sentiment Classification Using Feature Relation Networks

**3:45 PM - 5:30 PM**

**Education**

3:45-4:20 Elizabeth Ayers, Incorporating Covariates to Classify Student Skill Knowledge Parameters

4:20-4:55 Benjamin Shih, Unsupervised Discovery of Student Learning Tactics

4:55-5:30 Nema Dean, Empty K-Means: A Flexible Skill Set Profile Clustering Method

**6:00 PM - 9:00 PM**

**Banquet**

## June 19, 2010

Saturday

**8:00 AM - 9:45 AM**

**CMU**

8:00-8:35 David Friedenber, Detecting Cluster Structure using Diffusion Maps

8:35-9:10 Di Liu, Anomaly Detection in a Large Phone Call Dataset

9:10-9:45 April Galyardt, Mixed membership models for continuous data

**10:00 AM - 11:45 AM**

**Session**

10:00-10:35 Elena Deych, Using Mantel Correlation for Comparing Sequencing Regions in Human Microbiome Project

10:35-11:10 Stanley Sclove, Logistic Regression: A Review and Indication of Application in Other Models

11:10-11:45 Mel Janowitz, Modifications of single-linkage clustering