

**June 17, 2010**

Thursday

**8:55 AM - 9:00 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 - 2:45 PM**

**Session**

1:00-1:35 Daniel Aloise, Dissertation Award, An improved column generation algorithm for minimum sum-of-squares clustering

1:35-2:10 Mel Janowitz, Modifications of single-linkage clustering

2:10-2:45 Arthur J. Kendall, A modern look at Historical Papers

**3:00 PM - 4:45 PM**

**Session**

3:00-3:35 Dale Josephs, Effects of Feature Selection on the Classification of Spoken and Written English

3:35-4:10 Markus Breitenbach, Validating taxonomic structure using Bayes-Optimal Misclassification Probability Bounds

4:10-4:45 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 Hohman, Statistical Methods in Text Analysis

## June 18, 2010 Continued

Friday

**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 Dominant Axis of Correspondence Analysis

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

### Lunch and Membership Meeting

**1:15 PM - 3:00 PM**

### Session

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

1:50-2:25 Tim Brennan, Classifying Criminals: A multi-axial taxonomy of a prison inmate population

2:25-3:00 Stephen France, Selecting Attributes for Sentiment Classification Using Feature Relation Networks

**3:15 PM - 5:00 PM**

### Education

3:15-3:50 Elizabeth Ayers, Incorporating Covariates to Classify Student Skill Knowledge Parameters

3:50-4:25 Benjamin Shih, Unsupervised Discovery of Student Learning Tactics

4:25-5:00 Nema Dean, Empty K-Means: A Flexible Skill Set Profile Clustering Method

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

### Banquet

Parkway Hotel

## June 19, 2010

Saturday

**9:00 AM - 10:45 AM**

### CMU

9:00-9:35 David Friedenberg, Detecting Cluster Structure using Diffusion Maps

9:35-10:10 Di Liu, A geometry-based approach for nuclear structure-based pathology

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

**June 19, 2010 Continued**

Saturday

**11:00 AM - 12:10 PM**

**Session**

11:00-11:35 Elena Deych, Using Mantel Correlation for Comparing Sequencing Regions in Human Microbiome Project

11:35-12:10 Stanley Sclove, Logistic Regression: A Review and Indication of Application in Other Models