

39th Symposium on the Interface: Computing Science and Statistics

**Theme:
Systems Biology**

May 23–26, 2007

DoubleTree Hotel
Philadelphia, Pennsylvania

PROGRAM CHAIR

Alan J. Izenman
Temple University

PROGRAM CO-CHAIR

Zoran Obradovic
Temple University

The Interface Symposium is hosted by the **Center for Statistical & Information Science (Alan J. Izenman, Director)**, the **Department of Statistics**, and the **Center for Information Science & Technology (Zoran Obradovic, Director)**, Temple University.

Thursday, 24th May 2007

10:30 a.m. – 12:10 p.m.

I-1 Genetic Association Studies

I-2 Statistical Methods in Proteomics

I-3 Problems and Prospects for Integrative Biology and the Grid

C-1 Clustering, Mixture Models, and Exchangeability

12:10 noon – 2:00 p.m. LUNCH

2:00 p.m. – 3:40 p.m.

I-4 Statistical Methods for Genetic Association Studies

I-5 Proteomics Data Analysis

I-6 Genomic Analysis Across Platforms

C-2 Analysis of Microarray Experiments

3:40 p.m. – 4:00 p.m. BREAK

4:00 p.m. – 5:40 p.m.

I-7 Computational Analysis of Gene Regulation

I-8 Information Extraction from Biomedical and Clinical Text

I-9 Computational and Statistical Methods for Genome-Wide Studies of Biological Systems

C-3 Visualization of Biological Data

Friday, 25th May 2007

8:30 a.m. – 10:10 a.m.

I-10 Data and Decision Fusion

I-11 Computational Techniques for Structural Genomics

I-12 Biological Networks

I-13 JCGS Highlights

C-4 Protein-Protein Interaction and Microarrays

10:10 a.m. – 10:30 a.m. BREAK

10:30 a.m. – 12:10 p.m.

I-14 Indexing and Search in Biological Data

I-15 Integrative Systems Biology in Cancer Research

I-16 Analysis of DNA Barcode Data

I-17 Best of SIAM Data Mining 2007

C-5 The Lasso and Variable Selection

12:10 noon – 2:00 p.m. LUNCH

2:00 p.m. – 3:40 p.m.

I-18 Methods for Integrating Disparate Molecular Datasets for Prediction

I-19 Roles of Protein Intrinsic Disorder in Interaction Networks

I-20 IASC Session: Current Issues in Statistical Biocomputing

C-6 Mutations, Metatarsals, Metabolomics, Metabolics, and Maps

3:40 p.m. – 4:00 p.m. BREAK

4:00 p.m. – 5:40 p.m.

I-21 Immunological Proteomics

I-22 Inferring Genetic Networks from Genomics Data

I-23 Best of CAMDA 2006

Saturday, 26th May 2007

8:30 a.m. – 10:10 a.m.

I-24 Providing Biological “Confidence” from Computational Analyses

I-25 Statistical Learning and Management of Biological Data

I-26 Modelling of Ethanol Abuse and HIV/AIDS

I-27 Analysis and Visualization of Microarray Gene Expression Data Using Excel, SAS, and S-Plus

10:10 a.m. – 10:30 a.m. BREAK

10:30 a.m. – 12:10 p.m.

I-28 Metrology and Inference of Complex Biological and Engineered Systems

I-29 Metagenome Informatics

I-30 Systems Approaches for Alcohol Use Modelling

I-31 Tutorial on the Bridge Between Classical & Systems Biology: Systems Models of Nature, Uncertainty, and Real Collaboration
