

Program

Interface Conference on Applied Statistics

December 11-12, 2013

American Statistical Association, Alexandria, VA

Interface Foundation of North America, Inc.

Monday, December 9

0900 - 1200 TUTORIAL

Classification and Regression Trees and Forests
Wei-Yin Loh, University of Wisconsin, Madison

1200 - 1300 Lunch

1300 - 1600 TUTORIAL

Tuesday, December 10

0900 - 1200 TUTORIAL

1200 - 1300 Lunch

1300 - 1600 TUTORIAL

Wednesday, December 11

0900 - 1000

GENERAL SESSION I: Edward J. Wegman (Chair)

Big Data: Concepts and Missteps (Keynote)
Kirk Borne, George Mason University

1000 - 1030 Break

1030 - 1200

CONTRIBUTED SESSION I: Allan Mense (Chair)

Collaborative Learning Under a Large-Scale Elicitation
Terrance Savitsky, Bureau of Labor Statistics

A Regression Tree Approach to Identifying Subgroups with Differential Treatment Effects
Wei-Yin Loh, University of Wisconsin, Madison

Seeking Better Supercomputer Experience for Kraken Users -- Evidence Based Assessment Using Statistical Tools

Fei Xing, Mathematica Policy Research Inc., Haihang You, National Institute for Computational Sciences, ORNL, and Yang Shen, BB&T Bank.

1200 - 1300 Lunch

1300 - 1430

SPECIAL SESSION I: Text Mining, Terrance Savitsky (Chair)

Inferential Variability in Latent Dirichlet Allocation

Ming Sun, Amazon

IMPLICATION (Implied Causation): Locating and Extracting Causation Statements in Unstructured Text

Joseph A. Marr, Muffarah G. Jahangeer, Trevor S. Crawford, Angeline P. Chau, Hyun Soo Choi, Jennifer J. Jones, Aneela B. Wadan, and Edward J. Wegman, George Mason University

CONTRIBUTED SESSION II: Fei Xing (Chair)

Tolerance Limits Under Mixture Models

Zachary Zimmer, Army Test and Evaluation Center, Thomas Mathew and DoHwan Park, University of Maryland Baltimore County

Point-Wise and Simultaneous Tolerance Limits Under Logistic Regression

Zachary Zimmer, Army Test and Evaluation Center, Thomas Mathew and DoHwan Park, University of Maryland Baltimore County

Impact of Topcoding on the Utility of Consumer Expenditure Microdata

Daniel K. Yang and Daniell Toth, Bureau of Labor Statistics

1430 - 1500 Break

1500 - 1600

GENERAL SESSION II: Allan Mense (Chair)

Big Data: Technology and Analysis

Edward Wegman, George Mason University

1700 - 1900

WILKS AWARD BANQUET (A la Lucia Restaurant)

Thursday, December 12

0900 - 1000

GENERAL SESSION III: Ed Wegman (Chair)

Estimation of Longitudinal Concomitant Intervention Effects with Shared Parameter Models
Colin O. Wu, National Institutes of Health

1000 - 1030 Break

1030 - 1200

CONTRIBUTED SESSION III: Wendy Martinez (Chair)

A Method to Estimate Fix Effectiveness for Known Failure Modes
David Spalding, Institute for Defense Analyses

Estimating Component Reliability based on Failure Time Data from a System of Unknown Design
Francisco J. Samaniego, University of California, Davis

Comparison of Classical and Bayesian Storage Reliability Models
Allan T. Mense, Raytheon Missile Systems and Grant Olsen, Raytheon Missile Systems

CONTRIBUTED SESSION IV: Amanda King (Chair)

High Dimension Data Analysis with Application on Schizophrenia
Hongda Zhang, George Washington University and Yuanzhang Li, Walter Reed Army Institute of Research

An Investigation of Quantile Function Estimators Relative to Quantile Confidence Interval Coverage
Lai Wei, Digital System, Inc and State University of New York at Buffalo, Dongliang Wang, State University of New York Upstate Medical University, and Alan D. Hutson, State University of New York

Comparison of Taguchi L9 and JMP 9 run Definitive Design
William C. Thomas, Raytheon Co.

1200 - 1300 Lunch

1300 - 1430

SPECIAL SESSION II: ABMs, Alyson Wilson (Chair)

Projecting Inventories for Navy Community Managers using IMPACT-AC
Yevgeniya (Jane) Pinelis and Warren Sutton, Center for Naval Analysis, and Arjay J. Nelson, BUPERS-34B

CONTRIBUTED SESSION V: Frank Samaniego (Chair)

An Evaluation of Joint Models Using Different Feature Extraction Metrics for Structural Health Monitoring (SHM) of Aircraft.

Amanda Sue King, Christine M. Schubert Kabban, Cheryl P. Edelmann, Air Force Institute of Technology, and Mark Derriso, AFRL/RQ

Identifying Common Groups for Variance Function Models in Complex Sample Design
MoonJung Cho, John L. Eltinge, Julie Gershunskaya, and Larry Huff, US Bureau of Labor Statistics

Assessment of Quality, Cost and Risk Factors in Statistical Work with Administrative Record Data

John Eltinge, US Bureau of Labor Statistics

1430 - 1500 Break

1500 - 1600

GENERAL SESSION IV: David Spalding (Chair)

Ranking Performance Video
William D. Heavlin, Google, Inc.