PROGRAM

SEVENTH U.S. ARMY CONFERENCE ON APPLIED STATISTICS

October 24-26, 2001 Hosted by Los Alamos National Laboratory

Monday & Tuesday, October 22 & 23

TUTORIAL

Applied Logistic Regression
David Hosmer, University of Massachusetts

Wednesday, October 24

GENERAL SESSION I

On a New Approach to Robust Estimation David W. Scott (Keynote)

Predicting and Understanding Complex Data
Leo Breiman

SPECIAL SESSION I

Case Studies in Elicitation and Quantification of Expertise and Judgment Mary Meyer, Jerry Morzinski, Laura McNamara, and Gregory Wilson

SPECIAL SESSION II: URBAN WARFARE

Nuggetizing the Elephant: Managing Urban Complexity During Military Operations Russell W. Glenn

Networked Organizational Structure and Function in a Complex Megacity Matt Begert

Real-Time Pseudo-Randomly Generated Features for Combat Experimentation in Urban Sprawl
Greg Tackett

International Trends in MOUT Research Danny C. Champion

CONTRIBUTED SESSION I

An Experimental Design to Collect Human Science Data for Modeling and Analysis Eugene Dutoit, Michael Statkus, Arthur Garrett, and Luci Salvi

Analysis in the MOUT ACTD
W. M. Christenson

Human Factors Evaluation of the Digitized Battlefield (DCX Phase I) Jock O. Grynovicki and Kragg P. Kysor

Contributed Session II

Advantages of NDE Data over Destructive Testing Data C. Shane Reese and Mike Hamada

Statistical Artifacts in the Ratio of Discrete Quantities Roger G. Johnston

Statistical Assessment of Aging Materials
Joanne Wendelberger

CONTRIBUTED SESSION III

Simulating Survival Probabilities of a Lander Mission on Mars Karen Kafadar

Functional Sensitivity Analysis for Computer Model Output Katherine Campbell

Introduction to Data Mining with Military Applications Christopher Jeffreys and James Wisnowski

CLINICAL SESSION I

The Effects of Vegetation on Line-of-Sight (LOS) for Dismounted Infantry Operations Danny C. Champion and Louis A. Fatale

On the Implementation of a Replication Paradigm for Calculating Confidence Intervals on Latin Hypercube Statistics Vicente J. Romero

CONTRIBUTED SESSION IV

Bootstrapping a Stochastic Process: Time-Indexed Risk Profile Analysis of an Index Fund James R. Thompson and Edward E. Williams

Analyzing Vulnerability Results for Tags and Tamper-Indicating Seals Roger G. Johnston and Anthony R.E. Garcia

Liars, Damned Liars and Statisticians Arthur Fries

1830 - 2115 WILKS AWARD BANQUET

1830 - 1900 SOCIAL 1900 - 2000 DINNER 2000 - 2045 BANQUET ADDRESS

Overview of Stockpile Stewardship
Jas. Mercer-Smith

Thursday & Friday, October 25 & 26

GENERAL SESSION II

Development of Some Locally Most Powerful Rank Tests for Correlation W. J. Conover

Boosting with the L2 Loss: Regression and Classification Bin Yu

CONTRIBUTED SESSION V

Subsampling of Biased Statistics with Application to Nonparametric Density and Intensity Estimation

Andreas Futschik

The Biggest, the Oldest, and Other Such Extremes Bruce J. West

Reducing the Error in Estimating Production Costs of Multiple-Unit Procurements Scott M. Vickers

Contributed Session VI

Cybernetic Ballistic Missile Defense Systems Robert L. Fry

Sensitivity Analysis Using Design of Experiments in Ballistic Missile Defense Jacqueline K. Telford

Model-Based Methods for Biological Agent Identification in Mass Spectrometry Fernando Pineda

CONTRIBUTED SESSION VII

Identifying Storms in Noisy Radio Frequency Data via Satellite: An Application of Density Estimation and Cluster Analysis

Tom Burr, Angela Mielke, and Abram Jacobson

The Moment Preservation Method of Cluster Analysis

Bernard Harris

Rank Adapted Kernel Density Estimation
David B. Kim

CONTRIBUTED SESSION VIII

The Role of Expert Knowledge in Uncertainty Quantification (Are We Adding More Uncertainty or More Understanding?)
Jane M. Booker, Mark C. Anderson, and Mary A. Meyer

Optimal Reliability Apportionment Nozer D. Singpurwalla

On Computing and Comparing the Reliability of Competing Networks P.J. Boland, F.J. Samaniego, and E.M. Vestrup

Statistical Methods in Software Engineering for Defense Systems: Summary of a Workshop Jesse Poore and Siddhartha Dalal

SPECIAL SESSION III: INFORMATION ASSURANCE

Network Evaluation via Activity Vector Clustering Jeff Solka

Audit Data Analysis and Mining Ningning Wu

Mining a Data Stream to Understand User Behavior Diane Lambert

GENERAL SESSION III

Accelerated Testing: Obtaining Reliability Information Quickly William Q. Meeker

CONTRIBUTED SESSION IX

A Special Topic in Risk Analysis Bernie Harris Exact Moments of the 2x2x2 Distribution Robert Launer

Mixed Model Inference for Army Test and Evaluation Thomas Mathew and David Webb

GENERAL SESSION IV

Visual Data Mining of Remote Sensing Data Jürgen Symanzik