

Welcome to the Fourth Annual Hawaii International Conference on Statistics, Mathematics and Related Fields

Aloha!

We welcome you to the Fourth Annual Hawaii International Conference on Statistics, Mathematics and Related Fields. This event offers a rare opportunity for academics and other professionals from around the world to share their broad array of perspectives. True to its primary goal, this conference provides those with cross-disciplinary interests related to statistics and mathematics to meet and interact with others inside and outside their own discipline.

The international attendees to this conference bring a variety of viewpoints shaped by different cultures, languages, geography and politics. This diversity is also captured in the Hawaii International Conference's unique cross-disciplinary approach. The resulting interaction energizes research as well as vocation.

With Waikiki Beach, Diamond Head and the vast South Pacific as the backdrop, this venue is an important dimension of this conference. For centuries a stopping place of explorers, Hawaii has historically been enriched by the blend of ideas that have crossed our shores. The Hawaii International Conference on Statistics, Mathematics and Related Fields continues this tradition in the nurturing spirit of Aloha. Along with its ideal weather and striking beauty, the Hawaiian Islands provide natural elements to inspire learning and dialogue.

The 2004 conference was a great success. We hosted more than 200 participants representing more than 30 countries. Thank you for joining the 2005 Hawaii International Conference on Statistics, Mathematics and Related Fields!

The 2006 Hawaii International Conference on Statistics, Mathematics and Related Fields will be held January 16 – 18, 2006 in Honolulu, Hawaii. Please check our website in early April for more details!

<http://www.hicstatistics.org>

E-mail: statistics@hicstatistics.org

Phone: (808) 946-9927

Registration Hours

January 8, 2005 (Saturday)	4:00pm - 8:00pm
January 9, 2005 (Sunday)	7:00am - 4:30pm
January 10, 2005 (Monday)	7:00am - 4:30pm
January 11, 2005 (Tuesday)	7:00am - 4:30pm

(Registration Desk is in the **Waimea Canyon Room**, 2nd Floor of the Sheraton Waikiki Hotel)

Concurrent Session Times

8:00 – 9:30 AM; 9:40 – 11:10 AM; 11:20 AM – 12:50 PM; 1:00 – 2:30 PM; 2:40 – 4:10 PM

Session Chairs are asked to:

- Introduce the participants.
- Start and end the sessions on time.
- Lead discussions. It is up to the Session Chair if questions and answers will come after each paper or if questions and answers will come after all of the papers of the session are through presenting.

All participants of each of the sessions should feel free to consider themselves as discussants.

Poster Sessions

The Poster Session will be held in the Molokai Ballroom. Presenters will be able to meet one-on-one with interested participants for detailed discussions regarding their research. Tri-fold presentation boards, easels with flipcharts, and tables will be provided in the Molokai Ballroom for the presenters.

Internet Access

Limited Internet access will be provided in the Hilo Room for participants to check their email. There will be a small number of laptops provided by the conference for Internet use. Please limit use of these computers to 15 minutes.

If you have your own laptop, feel free to use the supplied LAN cables to “plug-in” to our network. **If your laptop has wireless Internet capabilities**, you will be able to pick up our wireless signal in and around the Hilo Room. The wireless Internet SSID is “HIC”.

The **Proceedings Publication** can be found on the CD ROM (ISSN #1550-3747).

Breakfasts - Three breakfasts are included with registration:

(Conference Badge is required for Breakfasts)

1/9/2005	Sunday	7:00 AM – 9:00 AM	Maui Ballroom
1/10/2005	Monday	7:00 AM – 9:00 AM	Maui Ballroom
1/11/2005	Tuesday	7:00 AM – 9:00 AM	Maui Ballroom

Additional breakfast coupons are available for \$25 each at the registration desk in the Lanai Ballroom.

Coffee Breaks

Sunday – Tuesday 10:00 AM and 2:00 PM

(Coffee Breaks will be located in the Hilo Room)

Lunches - Two lunches are included with registration:

(Conference Badge is required for Lunches)

1/9/2005	Sunday	11:45 PM – 1:30 PM	Maui Ballroom
1/10/2005	Monday	11:45 PM – 1:30 PM	Maui Ballroom

Additional lunch coupons are available for \$30 each at the registration desk in the Waimea Canyon Room.

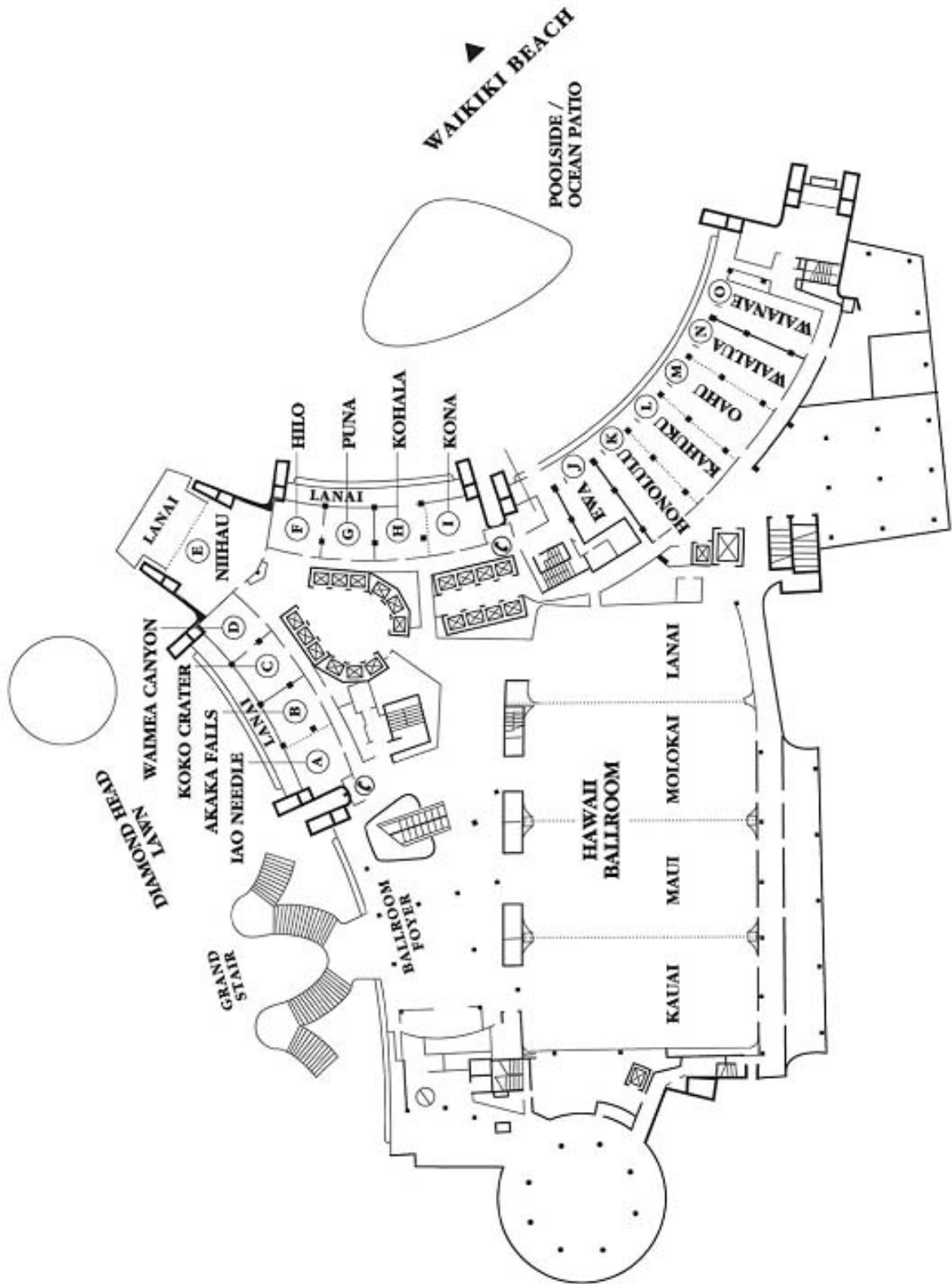
Dinner Shows/Night Events:

(A limited number of tickets may still available at the registration desk in the Waimea Canyon Room.)

1. Magic of Polynesia show to be held on Sunday, January 9, 8:00pm at The Waikiki Beachcomber Hotel, 2300 Kalakaua Ave., 2nd Floor Showroom. A dazzling world-class production. Hawaiian legends unfold before your eyes. Mystifying illusions and special effects take the art of magic to its outer limits. Hawaii's internationally acclaimed illusionist, John Hirokawa, is a master. Keep your eyes on his hands as John casts his spell and transforms the showroom into a spellbinding arena of brilliant magic. **Tickets: \$43 per adult, \$33 per child (4-11 years)**

2. Germaine's Luau on Monday, January 10, 4:15 pm pick up at Sheraton Waikiki Hotel, 2255 Kalakaua Ave. Located on a private beach on the west coast of Oahu, Germaine's Luau exudes the secret charm of old Hawai'i. Indulge yourself in a multi-course-all-you-can-eat feast of the taste-tempting authentic Hawaiian and American entrees while enjoying refreshing tropical cocktails. Then sit back and enjoy the most spectacular Polynesian Revue in Hawaii. **Tickets: \$53 per adult, \$43 per junior (14-20 years), \$31 per child (6-13 years)**

3. Creation - A Polynesian Odyssey cocktail show on Tuesday, January 11, 7:00pm, at Sheraton Princess Kaiulani Hotel Waikiki, 120 Kaiulani Ave., second floor showroom. A show that takes the audience on a theatrical excursion to witness the mythical creation of Polynesian man and woman along with their spectacular voyage through the Pacific. The show presents a chronological story through the South Pacific Islands with an accomplished cast of performers representing the cultural music and dances of Tahiti, New Zealand, Fiji, the Marquesas Islands, Samoa and Hawaii. **Tickets: \$31 per adult, \$22 per child (5-12 years)**



Audio/Visual Equipment

The conference will provide the following in each presentation room (**excluding poster sessions**):

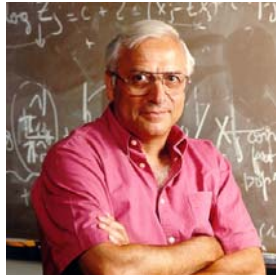
- ✓ Laptop Computer (Please see notes below regarding the laptops)***
- ✓ LCD Data Projector (with screen)
- ✓ VCR/DVD Combination Player (also plays audio CD's)
- ✓ Overhead Transparency Projector (must provide own transparencies)

*** The laptops will accept CD-ROMs, DVD's, and USB "Flash" drives. However, they **ARE NOT** equipped with floppy disk drives. If you have your presentation on a floppy disk, please visit the registration desk and we will transfer the files onto a CD-ROM or USB Flash Drive for you. Microsoft PowerPoint, Word, and Excel are installed on each laptop for your convenience. We will not be able to install any special software that your presentation may require. However, if you brought your own laptop, you may use it instead of the one that is provided.

Opening Speech and Keynote Speaker

Time: 9:40 – 11:10 AM **Sunday** Room: Lanai Ballroom
1/9/2005

Keynote Speaker:



Stephen E. Fienberg

Stephen E. Fienberg is Maurice Falk University Professor of Statistics and Social Science at Carnegie Mellon University, with appointments in the Center for Automated Learning and Discovery and Cylab (the Center for Computer and Communications Security). He was founding co-editor of *Chance* and previously served as the Coordinating and Applications Editor of the *Journal of the American Statistical Association*. He has been Vice President of ASA and President of the Institute of Mathematical Statistics and the International Society for Bayesian Analysis. His research includes the development of statistical methods, especially tools for categorical data analysis. He has also had a longstanding interest in large-scale sample surveys, including the study of nonsampling errors, cognitive aspects of the design of survey questionnaires, and the role of statistical models for the analysis of survey data. His book with Margo Anderson, *Who Counts?*, chronicles the story of the 1990 decennial census and efforts to use sampling to adjust census results for differential undercount. His work on confidentiality and disclosure limitation addresses issues related to respondent privacy in both surveys and censuses and to categorical data analysis. Recently, he chaired the NRC committee on the scientific validity of the polygraph and served as a member of the NRC panel on measuring discrimination.

Fienberg is a member of the U. S. National Academy of Sciences, a fellow of the Royal Society of Canada, and Thorsten Sellin Fellow of the American Academy of Political and Social Science. He is also a fellow of AAAS, the American Statistical Association, the Institute of Mathematical Statistics.

The title of his address will be:

Bayesian Mixed Membership Models for Soft Clustering and Classification and Their Application

Clustering methods are ubiquitous in science and industry, but soft clustering involves relatively novel statistical methodology. We begin by introducing a series of real-world applications, and then introduce a fully Bayesian approach to soft clustering and classification using mixed membership models. Our model structure has assumptions on four levels: population, subject, latent variable, and sampling scheme. Population level assumptions describe the general structure of the population that is common to all subjects. Subject level assumptions specify the distribution of observable responses given individual membership scores. Membership scores are usually unknown and hence we can also view them as latent variables, treating them as either fixed or random in the model. Finally, the last level of assumptions specifies the number of distinct observed characteristics and the number of replications for each characteristic. We illustrate the flexibility and utility of the general model through two applications using data from: (i) the National Long Term Care Survey where we explore types of disability; (ii) semantic decompositions of abstracts and bibliographies from articles published in *The Proceedings of the National Academy of Sciences*. In the first application we use a Monte Carlo Markov chain implementation for sampling from the posterior distribution. In the second application, because of the size and complexity of the database, we use a variational approximation to the posterior.

Sunday

Time: 8:00 - 9:30 AM 1/9/2005 Room: Iao Needle
Session Topic: Computational Statistics
Session Chair: Marchette, David

Data Random Graphs for Pattern Recognition
Marchette, David — Naval Surface Warfare Center

Sunday

Time: 8:00 - 9:30 AM 1/9/2005 Room: Koko Crater
Session Topic: Educational Statistics
Session Chair: Van Gorder, Ed

First Course in Statistical Science: Four Suggestions for Ongoing Reform
Van Gorder, Ed — Hawaii Pacific University

Sunday

Time: 1:00 - 2:30 PM 1/9/2005 Room: Akaka Falls
Session Topic: Quantitative Methods
Session Chair: Brusilovskiy, Eugene

Comparing Time Series, Neural Nets and Probability Models for New Product Trial Forecasting
Brusilovskiy, Eugene — University of Pennsylvania
Lee, Ka Lok — Catalina Health Resource

Toward a Method for Assessing the Risk of a Terrorist Attack
Mehl, Christopher — United States Department of Defense

Sunday

Time: 1:00 - 2:30 PM 1/9/2005 Room: Iao Needle
Session Topic: Mathematics Education
Session Chair: Pietropaolo, Ryan L.

Gender Differences in Achievement and Attitude in College Mathematics
Pietropaolo, Ryan L. — Colorado State University

Mind the Tempo: Children's Conceptions of Temporal Symmetry
Tuckey, Steven — Michigan State University

Practical and Visual Aids in Teaching Basic Mathematics Principles
Nooriafshar, Mehryar — University of Southern Queensland

Content Mentoring in Algebra through Lesson Study
Tuska, Agnes — California State University, Fresno

Sunday

Time: 1:00 - 2:30 PM

1/9/2005

Room: Kona

Session Topic: Probability

Session Chair: Oxley, Mark

Classifier Fusion and its Free Receiver Operating Characteristic Curve

Oxley, Mark — Air Force Institute of Technology

Schubert, Christine — Air Force Institute of Technology

Bauer, Jr, Kenneth — Air Force Institute of Technology

Dependency Effects of the Majority Vote Classifier Fusion Rule and its Receiver Operating Characteristic Curve

Schubert, Christine — Air Force Institute of Technology

Oxley, Mark — Air Force Institute of Technology

Bauer, Jr., Kenneth — Air Force Institute of Technology

Hypergeometric Functions and Infinite Divisibility of Probability Distributions Consisting of Gamma Functions

Takano, Katsuo — Ibaraki University

Sunday

Time: 1:00 - 2:30 PM

1/9/2005

Room: Puna

Session Topic: Mathematics Education

Session Chair: Bessey, Kent

Making Mathematical & Statistical Ideas Accessible to a Lay Audience

Bessey, Kent — Brigham Young University - Idaho

Using the World Wide Web to Motivate Students in the Statistics Classroom

Zucco-Teveloff, Cathleen M. — Trinity College

A Comparative Study of Statistical Software for Use in Distance Learning

Melucci, Robert — Community College of Rhode Island

Crowley, Joseph — Community College of Rhode Island

Sunday

Time: 2:40 - 4:10 PM 1/9/2005 Room: Akaka Falls
Session Topic: Applied Statistics
Session Chair: Low, Chan Kee

A Distribution-Free Approach for Sample Size Determination for Life Testing

Low, Chan Kee — Nanyang Technological University
Balasooriya, Uditha — Nanyang Technological University

An Extension of the Johnson-Neyman Technique to Binary Regression

Molefe, Ayrin — University of Central Arkansas
Molefe, Daniel — Statistics South Africa

Suicide Trends in Australia, 1865-1998

Chong, Shanley — Macquarie University

Generalizations of PLS for Dimensionality Reduction in Supervised Classification

Vega, Jose — University of Puerto Rico at Mayaguez
Acuna, Edgar — University of Puerto Rico at Mayaguez

Sunday

Time: 2:40 - 4:10 PM 1/9/2005 Room: Iao Needle
Session Topic: Discrete Mathematics
Session Chair: Debnath, Narayan

Development and Applications of the Optimized Program Graph

Debnath, Narayan — Winona State University
Debnath, Joyati — Winona State University

Difference Systems of Sets and Code Synchronization

Tonchev, Vladimir — Michigan Technological University

Sunday

Time: 2:40 - 4:10 PM 1/9/2005 Room: Kohala
Session Topic: Educational Statistics
Session Chair: Mortazavi, Mir

A Comparison of a Distance Learning Course with Similar Lecture Courses

Mortazavi, Mir — Eastern New Mexico University

Study of Sexual Activity Among the College Students in Taiwan: A Logistic Regression Approach

Ker, Hsiang-Wei — Chihlee Institute of Technology

Educational Indices to Detect Grade Inflation in School Systems

Mulvenon, Sean — University of Arkansas
McKenzie, Sarah — University of Arkansas

Sunday

Time: 2:40 - 4:10 PM 1/9/2005 Room: Puna
Session Topic: Psychometrics
Session Chair: Cicchetti, Domenic

Examining the Psychometrics of a New Diagnostic Screener to Identify those at Risk for Psychosis

Cicchetti, Domenic — Yale University
Miller, Tandy — Yale University
Markovich, Philip — Yale University
Woods, Scott — Yale University

A Review of Social-Psychological, Rational Choice and Causal Modelling Approaches on Voting Behaviour Studies

Lui, Kwok Man — University of Macau

Using Multivariate Analysis to Measure Visitors' Attitudes Toward Forest Resources

Chi, Yeong Nain — Louisiana Department of Wildlife and Fisheries
Chang, Guanghwa — Youngstown State University

A Process of Item Selection in Quality of Life Assessment with the Application of Parametric IRT Models

Lin, Ting Hsiang — National Taipei University

Monday

Time: 8:00 - 9:30 AM 1/10/2005 Room: Iao Needle
Session Topic: Operations Research
Session Chair: Udriste, Constantin

Queue Geometric Dynamics

Udriste, Constantin — University Politehnica of Bucharest
Udriste, Sorin Adrian — University Politehnica of Bucharest

Monday

Time: 8:00 - 9:30 AM 1/10/2005 Room: Koko Crater
Session Topic: Mathematics Education
Session Chair: Priselac, Nancy

Using Fathom Statistical Software and Digital Photography to Study Objects in Motion

Priselac, Nancy — Garrett College
Priselac, Stephen — Fayette Institute

Monday

Time: 8:00 - 9:30 AM 1/10/2005 Room: Puna
Session Topic: Cross-Disciplinary Areas of Statistics
Session Chair: Ezepue, P.O.

Optimisation of Human and Academic Potential Part 1, 2, 3, 4,

Ezepue, P.O. — Sheffield Hallam University, City Campus

Monday

Time: 9:40 - 11:10 AM 1/10/2005 Room: Puna

Session Topic: Bayesian Statistics

Session Chair: Manfred, Ernest

Manfred, Ernest — United States Coast Guard Academy (dm)

A Hierarchical Modeling Approach to Mathematics Placement
Mahoney, Kevin — United States Coast Guard Academy (dm)

Bayesian Analyses for Multinomial Data with Misclassification
Swartz, Tim — Simon Fraser University

Forecasting and Updating Traffic Flow
Bengtsson, Thomas — University of California
Rice, John — University of California

Monday

Time: 1:00 - 2:30 PM 1/10/2005 Room: Akaka Falls

Session Topic: Applied Mathematics

Session Chair: Dominici, Diego

Ray Solution of a Singularly Perturbed Elliptic PDE with Applications to Communications Networks
Dominici, Diego — State University of New York at New Paltz
Knessl, Charles — University of Illinois at Chicago

Shape and Impedance Inverse Problems and the Method of Lines
Hooshyar, M. A. — University of Texas at Dallas
Lasater, Lena — University of Texas at Dallas

Quasi-Stationary Optical Solitons with Power Law Nonlinearity
Biswas, Anjan — Tennessee State University

Monday

Time: 1:00 - 2:30 PM 1/10/2005 Room: Iao Needle

Session Topic: Other Areas of Mathematics

Session Chair: Gefroh, Daniel

Laplace Transforms of Finite Measure as Limits of Polynomials with Restricted Zeros
Gefroh, Daniel — Hawaii Pacific University

The Equality of Two Seemingly Unrelated Combinatorial Matrices
Kovac, Raimundo — Rhode Island College
Simons, Roger — Rhode Island College

Tauberian Theorems in the Statistical Sense for the Weighted Means of Double Sequences
Chen, Chang-Pao — National Tsing Hua University
Chang, Chi-Tung — National Tsing Hua University

Monday

Time: 2:40 - 4:10 PM

1/10/2005

Room: Akaka Falls

Session Topic: Applied Statistics

Session Chair: Olsen, Darlene

Risk Assessment of Long Term Participation in the TANF Program

Olsen, Darlene — New York State Department of Labor

Zurbenko, Igor — State University of New York at Albany

Measuring the Robustness of Different Claims Reserving Methods

Tampubolon, Dumaria — Macquarie University

de Jong, Piet — Macquarie University

Barnett, Glen — Macquarie University

An Archaeology Predictive Model Based on Conditional Probability and Geostatistics

Miller, Stanley — University of Idaho

Markert, Joanne — GeoEngineers Inc., Tacoma

Kauhi, Tonya — GeoEngineers Inc., Tacoma

Brooks, Allyson — Office of Archaeology and Historic Preservation, Olympia

Public Values, Objectives, and Beliefs towards Forestry: An Exploration in Statistical and Practical Significance

Shelby, Lori — Colorado State University

Shields, Deborah — USDA Forest Service

Monday

Time: 2:40 - 4:10 PM

1/10/2005

Room: Iao Needle

Session Topic: Number Theory

Session Chair: Deligero, Eveyth

Some Limit Theorems for Formal Laurent Series Diophantine Approximations

Deligero, Eveyth — Keio University

Nakada, Hitoshi — Keio University

Comparison Theorems for Automorphic Forms

Huntley, Jonathan — City University of New York

Tepper, Michael — City University of New York

Tepper, David — City University of New York

A Note on the Distribution of the Number of Prime Factors of Integers

Srinivasan, Aravind — University of Maryland

Monday

Time: 2:40 - 4:10 PM 1/10/2005 Room: Kohala
Session Topic: Non-Parametric Statistics
Session Chair: Parcon, Jason

Spearman Rank Regression

Parcon, Jason — Indiana University-Purdue University Fort Wayne
Naranjo, Joshua — Western Michigan University

Testing for the Superiority among Two Time Series

Koul, Hira — Michigan State University
Li, Fang — Indianapolis University Purdue University at Indianapolis

Consistency of Error Density and Distribution Function Estimation in Nonparametric Regression

Cheng, Fuxia — Illinois State University

Monday

Time: 2:40 - 4:10 PM 1/10/2005 Room: Koko Crater
Session Topic: Discrete Mathematics
Session Chair: Juras, Martin

A Combinatorial Conjecture and the Inverse Problem of the Calculus of Variations

Juras, Martin — North Dakota State University

Laguerre-Type Operators, Special Functions and Applications

Dattoli, Giuseppe — ENEA, Centro Ricerche Frascati, Roma
Ricci, Paolo Emilio — Università di Roma "La Sapienza"

Monday

Time: 2:40 - 4:10 PM 1/10/2005 Room: Kona
Session Topic: Bayesian Statistics
Session Chair: Lancaster, Mark

Mixture Modeling of fEPSCs Using BARS to Estimate the Underlying Self-modeling Regression Function

Lancaster, Mark — University of Kentucky
Viele, Kert — University of Kentucky

Regression Models for the Concentration of Money

Doksum, Kjell — University of Wisconsin, Madison

Estimating Failure to Report: An Examination of Logistic Regression Models to Explain the Failure to Report Crimes

Taylor, Patricia — University of Wyoming
Grandjean, Burke — University of Wyoming

Monday

Time: 2:40 - 4:10 PM

1/10/2005

Room: Molokai

Session Topic: Poster Session

Laplace Transformations and Boundary Value Problems

Singh, S.N. — University of Transkei

Analysis of Population (time to AIDS) using Kolmogorov - Smirnov Nonparametric Test

Bekralas, Rachid — BMCC, City University of New York

Numerical Modeling for Optimizing Laser Power Irradiating on a 3D Triple Layered Skin Structure

Dai, Weizhong — Louisiana Tech University

Zhang, Le — Louisiana Tech University

Zhu, Teng — Grambling State University

Parental Gender Preferences Effect on Fertility Behavior: An Empirical Analysis

Dale, Rhys — University of North Carolina Greensboro

The Dilemma in Comprehending Basic Algebraic Principles in Mathematics (A Case Study of the Gambia Secondary Schools)

Eleleme, Chinagorom Humble — University of The Gambia

Fijabi, Rasaki Tunji — Saint Peter's Technical Senior Secondary School

Statistical Methods and a Nonparametric Reliability Measure for Computer Intrusion Detection

Ashofteh, Afshin — University of Isfahan

A Comparison of Student Experiences in Online and On-Ground Business Statistics Courses

Sue, Valerie — California State University, Hayward

Orkin, Michael — California State University, Hayward

Expected Time to Recruitment in Manpower Planning Model Using Shock Model and SCBZ Property

Parthasarathy, Shanmugam — Multimedia University

'A Lesson in Vectors: "Plain" and Simple'

Bradshaw, David — United States Military Academy

Combinatoric Methods for Graph Collapsing Blockmodeling

Rigsby, John — Naval Surface Warfare Center

Solka, Jeff — Naval Surface Warfare Center

Surface Approximation from Digital Elevation Model Datasets

Gout, Christian — LMI - Place Emile Blondel

Optimality of the 2-CUSUM Drift Equalizer Rules in Detecting Two-sided Alternatives in the Brownian Motion Model

Hadjiliadis, Olympia — Columbia University

Sparse Structure of Statistical Dependence and Feature Selection for Supervised BN Classifiers

Pavlenko, Tatjana — Mid Sweden University

The Effect of Presence of Free Boundary on the Propagation of Love Waves Laterally and Vertically Inhomogeneous, Transversely Isotropic Layer Overlying a Laterally and Vertically Inhomogeneous, Transversely Isotropic Half-Space

Sehrawat, Anita — F.C. College for Women

Rana, O.H. — F.C. College for Women

Love Waves in a n-Layered Self-Reinforced Transversely Isotropic Medium when Upper Surface has a Rigid Boundary

Sehrawat, Anita — F.C. College for Women

Rana, O.H. — F.C. College for Women

Teaching Mathematics for Technology and Engineering Students and Inventive Abilities

Sadrnejad, Seyed Amirodin — Shahid Rajaei University

Data Mining and Knowledge Discovery for Airplane Maintenance

Wang, Zhenhong — The Boeing Company

Generalized Symmetric Polynomials and Approximate de Finetti Representations

Bobkov, Sergey — University of Minnesota

A Note on the Operator Inequalities for the Tsallis Relative Operator Entropy

Furuichi, S. — Tokyo University of Science, Yamaguchi

Chain Rules and Subadditivity in Tsallis Statistics

Furuichi, S. — Tokyo University of Science, Yamaguchi

Yamane, K. — Tokyo University of Science

Computation of the Spectral Densities of Hysteretic Systems with Stochastic Input

Dimian, Mihai — University of Maryland

Mayergoyz, Isaak — University of Maryland

Stochastic Analysis of Nonlinear Systems with Hysteresis

Mayergoyz, Isaak — University of Maryland

Dimian, Mihai — University of Maryland

A Nonlinear Pricing Model with Transportation Costs

Burkey, Mark — North Carolina A&T State University

Kurepa, Alexandra — North Carolina A&T State University

Plane Maps with Singularities and Quasi-Fixed Points

Gillis, Daniel — University of Guelph

A Derivative and Concavity Signal Model for Dynamic Movement

Fan, Guangwei — Maryville University

Unbalanced Samples: Asymptotic versus Exact Confidence Intervals on the Odds Ratio

Biebler, Karl-Ernst — Ernst-Moritz-Arndt-Universität Greifswald

Jäger, Bernd — Ernst-Moritz-Arndt-Universität Greifswald

F-Ordered Rings and Topological Semifields

Biebler, Karl-Ernst — Ernst-Moritz-Arndt-Universität Greifswald

Construction of Orthogonal Arrays of Strength Four and Size $2r$

Suen, Chung-yi — Cleveland State University

Chai, Fen-Shun — Academia Sinica

Warranty Period and Inspection Policies for Fatigue-Sensitive Aircraft Structures

Nechval, Konstantin — Institute of Transport and Telecommunication

Nechval, Nicholas — University of Latvia

Minimum Variance Unbiased Estimation of System Availability in the Exponential Case

Nechval, Nicholas — University of Latvia
Nechval, Konstantin — Institute of Transport and Telecommunication
Vasermanis, Edgars — University of Latvia

Statistical Regional Data Analysis in GIS

Krivoruchko, Konstantin — Environmental Systems Research Institute

Determination of Optimal Measurement Guardbands

Chou, Youn-Min — The University of Texas at San Antonio
Chen, Kang-Shin — National Sun Yat-Sen University

Quadratic Regression Analysis for Gene Discovery and Pattern Recognition for Small Sample Non-cyclic Microarray Time-Course Experiments

Liu, Hua — University of Kentucky
Tarima, Sergey — University of Kentucky
Borders, Aaron — University of Kentucky
Getchell, Thomas — University of Kentucky
Getchell, Marilyn — University of Kentucky
Stromberg, Arnold — University of Kentucky

Design and Analysis of Probability of Subsurface Crack Detection

Peixoto, Julio — The Boeing Company
Basu, Sabyasachi — The Boeing Company
Scholz, Fritz — The Boeing Company
Warren, Gregory — The Boeing Company

Mathematical Tools of Mixed Number Algebra

Alam, Md. Shah — Shahjalal University of Science and Technology
Ahsan, M. H. — Shahjalal University of Science and Technology
Ahmad, Mushfiq — University of Rajshahi

Improving Regression Function Estimators

Khoujmane, Ali — Texas Tech University

Landmark Based Statistical Measures for Face Recognition

Ricanek, Karl — University of North Carolina, Wilmington
Boone, Edward — University of North Carolina, Wilmington

Point Set Domination Parameters of a Star Graph

Swaminathan, V. — Saraswathi Narayanan College
Poovazhaki, R. — EMG Yadava Women's College

Fourier Analysis of Extended Timoshenko Beam Model

Ngo, Khiem Viet — Stanford University

Using Excel and PowerPoint to Teach Complex Mathematical and Physical Concepts

Sullivan, D.F. — St. Francis High School

Grammar, DFA for & from DTL (Decision Tree Learning)

Hanchate, Dinesh Bhagwan — SSVPS BSD College Of Engg.
Borse, Indrabhan — SSVPS BSD College Of Engg.
Sutar, S. R. — Dr. Babasaheb Ambedkar Technological University

An Approximate Estimation for Weibull Regression Model with Censored Data

Thiagarajah, Raneek K. — Illinois State University

Chaos, Probability Distribution and Orthogonal Polynomials

Li, Ken S. — Southeastern Louisiana University
Merino, Dennis — Southeastern Louisiana University
Reyes, Edgar — Southeastern Louisiana University

Optimal Acceptance-Sampling Plans using Inverse Gaussian Model

Aminzadeh, Mostafa — Towson University

Regular Expression & Algorithm for Linear Equation (Guass Seidel Method)

Bhagwan, Hanchate Dinesh — SSVPS BSD College Of Engg.
Hitendra, Patil — SSVPS BSD College Of Engg.

Assessing the Measurement Invariance of Latent Job Satisfaction Ratings Across Survey Administration Modes for Respondent Subgroups: A MIMIC Modeling Approach

Whitaker, Brian — University of Akron
McKinney, Jessica — Appalachian State University

A Randomized Study to Determine the Effectiveness of Interventions to Improve Participant Protocol Compliance in a Large Clinical Study

Walsh, Kayo — University of Colorado
Gamito, Eduard — University of Colorado
Ogden, Sheryl — University of Colorado
Pretzel, Shannon — University of Colorado
Crawford, E. David — University of Colorado

State Space Model for HIV Pathogenesis under HAART

Zhang, Ping — Middle Tennessee State University

Critical Episodes Occurrence of Atmospheric Contamination in the City of Santiago de Chile

Ormeño, Ma. Isabel — Universidad de Santiago de Chile
Gramsch, Ernesto — Universidad de Santiago de Chile
Catalán, Luis — Universidad de Santiago de Chile

Fixed Points in Group Invariant Subspaces

Pratim Dey, Partha — North South University

On Holomorphic Functions in Normed Algebras

Pratim Dey, Partha — North South University

Adaptive Numerical Approximation of Derivatives

Kostreva, Michael — Clemson University
Reneke, Paul — Clemson University

A New Statistical Attempt of Human Resources Definition

Skonieczny, Giorgio — University of Catania
Torrìsi, Benedetto — University of Catania

Investigation of the use of Kernel Smoothing Techniques in Dimension Reduction of Kinetic Chemical Reaction Mechanism Data

Butuk, Nelson — Prairie View A & M University
Johnson, Ken — Prairie View A & M University

Using Polynomial Model for Reduction Correlation between Errors in Longitudinal Data

Hasani, Hosein — Shahid Beheshti University
Ghodsì, Mansoureh — Payam e Noor University

An Evaluation of an In-Service Program for Teachers with a Focus on the Japanese Open Approach to Teaching Mathematics

Walton, Candide — Southeast Missouri State University

The Role of Paradox in the Development of Children's Mathematical Knowledge in a Community of Inquiry: A Dialectical Analysis of Mathematical Argumentation

Zabtcheva Kennedy, Nadia — Montclair State University

Application of ANOVA for the Analysis of Differences in Length of Pelagic Goby Preyed on by Cape Fur Seals

Anday, Tekie — University of Cape Town

Maximum Likelihood Estimation for Availability Measures of a Two-Component System in the Presence of Common Cause Failures

Chari, A. A. — Sri Krishnadevaraya University

Subrahmanyam, U. — Sri Krishnadevaraya University

A Socio-Economic and Environmental Survey of Lahore-Islamabad Motorway

Ahmad, Shiekh Saeed — Quaid-i-Azam University

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Rauf, M. — Quaid-i-Azam University

Dose-Response Models for Teratological Studies Incorporating Risk of death in "Utero"

Zhu, Min — National University of Singapore

Wang, You-Gan — National University of Singapore

Optimisation of Human and Academic Potential: Part 3, Part 4

Ezepue, Patrick — Sheffield Hallam University, City Campus

Monday

Time: 2:40 - 4:10 PM

1/10/2005

Room: Puna

Session Topic: Applied Mathematics

Session Chair: Gibou, Frédéric

A Fast Hybrid k-Means Level Set Algorithm for Segmentation

Gibou, Frédéric — University of California at Santa Barbara

Fedkiw, Ronal — Stanford University

A Proposed Clustering Algorithm

Hurt, James — Internet & Computer Institute

Burton, Thomas — Internet & Computer Institute

Stochastic Project Duration Analysis using Pert-Beta Distributions

Davis, Ron — San Jose State University

Tuesday

Time: 8:00 - 9:30 AM 1/11/2005 Room: Iao Needle
Session Topic: Other Areas of Mathematics
Session Chair: Pyzdrowski, Anthony

Creating Applications for the CASIO ClassPad 300 using the Software Development Kit
Pyzdrowski, Anthony — California University of Pennsylvania

Tuesday

Time: 8:00 - 9:30 AM 1/11/2005 Room: Koko Crater
Session Topic: Probability
Session Chair: Ezepue, P. O.

Some Notes on Schmidli's Renewal Theorem with Branching Process Applications
Ezepue, P. O. — Sheffield Hallam University, City Campus
Grey, D. R. — The University of Sheffield

Tuesday

Time: 9:40 - 11:10 AM 1/11/2005 Room: Akaka Falls
Session Topic: Applied Mathematics
Session Chair: Meznik, Ivan

On Strict Monotonicity of the Price Elasticity
Meznik, Ivan — Brno University of Technology

Analytical Solution of the Hermite Collocation Discretization of a Convection-Diffusion Equation with Variable Coefficients
Brill, Stephen — Boise State University

A Numerical Method to Solve the Two-Step Parabolic Heat Transfer Equation in a Microsphere Subjected to an Ultrafast Laser Pulse
Kaba, Ibrahim — Embry-Riddle Aeronautical University
Dai, Weizhong — Louisiana Tech University

Tuesday

Time: 9:40 - 11:10 AM 1/11/2005 Room: Iao Needle
Session Topic: Mathematics Education
Session Chair: Berkaliyev, Zaur

Strange Attractors and the Dynamics of Student Attitudes toward Mathematics
Berkaliyev, Zaur — Illinois Institute of Technology

WvEB Mathematics: Web Enhanced College Courses for High School Seniors
Pyzdrowski, Laura — West Virginia University
Pyzdrowski, Anthony — California University of Pennsylvania
Mays, Michael — West Virginia University

Originations of Students' Hatred toward Mathematics
Simmers, Michael — University of North Dakota at Grand Forks

Tuesday

Time: 9:40 - 11:10 AM
Session Topic: Biostatistics
Session Chair: Hamilton, Martin

1/11/2005

Room: Kohala

Using a Minimum Anderson-Darling Discrepancy Fit of a Three-Parameter Pareto Distribution to Estimate the Rate at which Large Cell Clumps Detach from a Bacterial Biofilm

Hamilton, Martin — Montana State University
Hamilton, Gordon — Montana State University
Wilson, Suzanne — Montana State University
Stoodley, Paul — Allegheny-Singer Research Institute

Patterns in Model Matrices for Multivariate Categorical Outcomes

Galecki, Andrzej — University of Michigan
Ten Have, Thomas — The University of Pennsylvania College of Medicine

Finding High Divergence Regions of CpG Islands with Statistical Significance

Chen, Yung-Pin — Lewis & Clark College
Dittmore, Andrew — Lewis & Clark College
Goda, Yasuhiro — Lewis & Clark College

Composite Interval Mapping of Quantitative Trait Loci with Censored Observations

Zhang, Hong — George Washington University
Li, Zhaohai — George Washington University

Tuesday

Time: 9:40 - 11:10 AM
Session Topic: Statistical Modeling
Session Chair: Gadag, Veerabhadr

1/11/2005

Room: Koko Crater

On a Class of Autoregressive Processes

Gadag, Veerabhadr — Memorial University St. John's
Gupta, R.P. — Dalhousie University
Jayakumar, K. — University of Calicut

Identification of Variables to Construct a Model for Classification of Co-Operative Sugar Mills According to Performance

Alagar, K. — Yadava College
Sampath, V. — Yadava College

Predicting Adult Caretaker Consent to Interview Youth in a Large-Scale National Survey

Hammer, Heather — Temple University

Tuesday

Time: 9:40 - 11:10 AM

1/11/2005

Room: Kona

Session Topic: Computational Statistics

Session Chair: Leeds, Elizabeth

Spectral Decomposition Approaches to Analyzing Text Data

Leeds, Elizabeth — Naval Surface Warfare Centre

Marchette, David — Naval Surface Warfare Centre

Probabilistics Linkage with Applications to Public Health Research

Li, Shiqun — State University of New York at Albany

Zurbenko, Igor — State University of New York at Albany

Neural Network Systems for Monitoring Patient Anaesthetic States

Vefghi, Leo — Sheffield Hallam University, City Campus

Tuesday

Time: 9:40 - 11:10 AM

1/11/2005

Room: Puna

Session Topic: Mathematical Statistics

Session Chair: Saunders, Christopher P.

The Weak Convergence of Empirical Processes from Multivariate Normal Vectors

Saunders, Christopher P. — University of Kentucky

Wood, Constance L. — University of Kentucky

Asymptotics of Likelihood Ratio Statistics for General Hypotheses Including Non-Inferiority Testing

Takagi, Yoshiji — Osaka Prefecture University

Skew Logistic Distribution with Financial Applications

Nadarajah, Saralees — University of Nebraska

Chen, Zhongxue — Southern Methodist University

Reliability Analysis via Imprecise-Chance Markov Chains

Jenab, K. — University of Ottawa

Dhillon, B. S. — University of Ottawa

Seyed Hosseini, S. M. — Iran University of Science and Technology

Tuesday

Time: 11:20 AM - 12:50 PM 1/11/2005 Room: Akaka Falls
Session Topic: Other Areas of Mathematics
Session Chair: Katz, Alexander

On Real Partially Ordered Involutive Algebras, II
Katz, Alexander — St. John's University

Finitely Generated Algebras in Hardy Spaces
Stessin, Michael — University at Albany

Ergodic Theorems for Actions of Finitely-Generated Semi-Groups on Von Neumann Algebras, II
Grabarnik, Genady — IBM T.J. Watson Research Center
Katz, Alexander — St. John's University
Shwartz, Laura — University of South Africa

Tuesday

Time: 11:20 AM - 12:50 PM 1/11/2005 Room: Koko Crater
Session Topic: Industrial Statistics
Session Chair: Bergman, Bo

Dispersion Effects from the Perspective of Robust Design
Bergman, Bo — Chalmers University of Technology
Arvidsson, Martin — Chalmers University of Technology

Optimization of a Micro-Pilot Ignition System Using Design of Experiments and Steepest Ascent
Duff, William — Colorado State University
Srinivasachari, Vijay — Colorado State University
Willson, Bryan — Colorado State University

Mobile Commerce from an Islamic Perspective
Zainul, Norazlina — International Islamic University Malaysia

Does the Incentives Pay De-Motivate and Does it Matter...? The Case Study of Kenya Teachers Services Commission-TSC
Akinyi Omollo, Judith — Yago Primary School

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Tom Burton – Internet & Computer Institute, Hilo Hawaii
Ubaldo Garcia-Palomares - Universidad Simón Bolívar, Venezuela
Veerabhadra Gadag - Memorial University St. John's, Canada
Vic Perera - Kent State University - Trumbull
Weizhong Dai - Louisiana Tech University

Conference Evaluation Form

	Excellent	Good	Fair	Below average	Poor
1. Time of year for conference					
2. Ease of proposal submission process					
3. Ease of conference registration process					
4. Ease of hotel registration process					
5. Timeliness of communication with conference staff					
6. Quality of hotel meeting facilities					
7. Quality of keynote address					
8. Opportunities for networking					
9. Quality of conference meals and breaks					
10. Overall quality of sessions					
11. Overall quality of conference					

12. Which, if any, of the special events did you attend?

Germaine's Luau

Magic of Polynesia

Creation – A Polynesian Journey

12a. How would you rate the one(s) you attended: _____

12b. If none, why did you not participate? Cost Not interested Other (please explain): _____

13. How did you find out about the conference? (check all that apply) Web search

Word of mouth Received e-mail Newsletter

Other: _____

14. How likely are you to attend in the future? Definitely will Probably Maybe

Not likely Definitely not

15. Would you recommend this conference to colleagues and/or students? Yes No

15a. Why or why not? _____

16. Other comments or suggestions? _____

**Hawaii International Conference on Statistics, Mathematics and Related Fields
paper review**

The 2006 Hawaii International Conference on Statistics, Mathematics and Related Fields tentatively scheduled for January 16 to January 18, 2006 will be held in Honolulu, Hawaii.

If you are interested in being a volunteer reviewer for the 2006 conference, please use the following form to indicate your preferences. Response should be directed to:

Hawaii International Conference on Statistics, Mathematics and Related Fields
Reviewing Committee
P.O. Box 75023
Honolulu, Hawaii 96836
U.S.A.
statistics@hicstatistics.org
Fax: 808-947-2420

My main areas of research expertise

My contact information

Name: _____

Department: _____

Affiliation: _____

Address: _____

Telephone: _____

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Email: _____

