Invited Paper Sessions

IP01.

Sponsor: IMS

Session Title: Applications of Mathematical Statistics in the Behavioral Sciences

Organizer: Linda Collins, Pennsylvania State University, USA

Chair: John W. Graham, Penn State University, USA

Speakers:

1. Linda M. Collins, Pennsylvania State University, USA

   Title: Fractional factorial experiments and cluster randomization: An integration of engineering research methods and educational research methods

2. Anne Buu, University of Michigan, USA

   Title: Statistical models for longitudinal zero-inflated count data with applications to the substance abuse field

3. Jessica Trail, Pennsylvania State University, USA

   Title: A Dynamical Systems Approach for Adaptive Behavioral Intervention Development

4. Daniel Almirall, University of Michigan, USA

   Title: A structural model for examining time-varying effect moderation: estimating the effect of additional substance use treatment as a function of time-varying severity

IP02.

Sponsor: IMS

Session Title: Depth, Extreme Quantiles and Classification

Organizer: Regina Liu, Rutgers University, USA

Chair: John Einmahl, Tilburg University, the Netherlands

Speakers:

1. Regina Liu, Rutgers University, USA

   Title: Bridging centrality and extremity: refining empirical data depth using extreme value theory

2. Xingdong Feng, Shanghai University of Finance and Economics, China

   Title: Wild bootstrap for quantile regression

3. Subhajit Dutta, Indian Statistical Institute, Calcutta, India

Title: Classification using localized Spatial Depth with multiple levels of localization

4. Mario Romanazzi, Ca Foscari University of Venice, Italy

Title: Local Depth

IP03.

Sponsor: IMS

Session title: Recent Advance in Multiple testing, Regularization Method and Network

Organizer: Runze Li, Penn State University, USA

Chair: Ying Wei, Columbia University, USA

Speakers:

1. Tyler McCormick, University of Washington, USA

Title: Modeling multiple relationships in social network data

2. Lin Chen, University of Chicago, USA, USA

Title: A penalized EM algorithm for multivariate Gaussian parameter estimation with non-ignorable missing data

3. Hongyuan Cao, University of Chicago, USA

Title: Robust high dimensional statistical inference

4. Xiaoli Gao, Oakland University, USA

Title: Joint Linear Trend Recovery Using L1 Regularization

IP04

Sponsor: IMS

Session title: Recent Developments in Statistical Machine Learning and High Dimensional Data Analysis

Co-Organizers: Yichao Wu, North Carolina State University, USA

Yufeng Liu, University of North Carolina, USA

Chair: Sijian Wang, University of Wisconsin at Madison, USA

Speakers:

1. Nan Lin, Washington University, St. Louis, USA

Title: Dimension reduction in functional regression based on canonical correlations

2. Zhengxiao Wu, National University of Singapore, Singapore

Title: A cluster identification framework illustrated by a filtering model for earthquake occurrences

3. Suojin Wang, Texas A&M University, USA

Title: Estimation and variable selection for complex longitudinal surveys

4. Jason Fine, University of North Carolina, USA

Title: On the Robustness of Adaptive LASSO to Model Misspecification

IP05.

Sponsor: IMS

Session title: Optimal Designs for Nonlinear Models

Organizer/Chair: Min Yang, University of Missouri, USA

Speakers:

1. Holger Dette, Ruhr Universität Bochum, Germany

    Title: Geometry, optimal designs and pharmacokinetic models

2. John Stufken, University of Georgia, USA

    Title: Developments on Optimal Designs for Generalized Linear Models

3. Stefanie Biedermann, University of Southampton, UK

    Title: A new algorithm for deriving optimal designs: general and efficient

4. Samad Hedayat, University of Illinois at Chicago, USA

    Title: Optimal and Efficient Crossover Designs for Test-Control Study When Subject Effects are Random

IP06.

Sponsor: IMS

Session title: Statistical Methods for High-dimensional Data

Organizer: Yi Li, Harvard University, USA

Chair: Taeryon Choi, Korea University, Korea

Speakers:

1. Yi Li, Harvard University, USA

    Title: Estimating equations with decomposable norm-based regularizers

2. Peter Song, University of Michigan, USA

    Title: Regularized semiparametric mixed-effects models for high-dimensional longitudinal data

3. Xiaodong Lin, Rutgers University, USA

    Title: Alternating Linearization for Structured Regularization Problems

IP07.

Sponsor: IMS

Session title: Time Series Analysis

Organizer: Qiwei Yao, London School of Economics, UK

Chair: Wai Keung Li, University of Hong Kong, Hong Kong

Speakers:
1. Jiazhu Pan, University of Strathclyde, United Kingdom
   Title: Poisson Threshold Autoregression
2. Junichi Hirukawa, Niigata University, Japan
   Title: Asymptotic properties of time series non-life insurance model
3. Guodong Li, Hong Kong University, Hong Kong
   Title: Least absolute deviation estimation for nonstationary vector autoregressive time series models with pure unit roots
4. Shiqing Ling, Hong Kong University of Science and Technology, Hong Kong
   Title: On the quasi-maximum likelihood estimation of a threshold double AR model

IP08.

Sponsor: IMS

Session title: Advances in Spatial and Spatial-Temporal Statistics and Their Application to Climate Problems

Organizer: Mikyoung Jun, Texas A&M University, USA

Chair: Huiyan Sang, Texas A&M University, USA

Speakers:
1. Hans Kuensch, ETH Zurich, Switzerland
   Title: Climate projections based on regional/global model chains
2. Cari Kaufman, University of California, Berkeley, USA
   Title: Statistical issues in catchment-scale hydrology
3. Michael Robbins, University of Missouri, USA
   Title: Changepoints in the North Atlantic Tropical Cyclone Record
4. Bruno Sanso, University of California at Santa Cruz, USA
   Title: Blending Ensembles of Climate Model Predictions

IP09.

Sponsor: IMS

Session title: Nonparametric Inference with Applications to Climate and Astronomy

Organizer: Woncheol Jang, University of Georgia, USA

Chair: Jie Peng, University of California at Davis, USA

Speakers:
1. Guenther Walther, Stanford University, USA
   Title: Detection of spatial clusters
2. Ji Meng Loh, AT&T, USA

Title: Bootstrap bandwidth selection for estimating a cosmological mass bias parameter

3. Murali Haran, Penn State University, USA

Title: Computer model calibration with high dimensional multivariate space-time observations

4. Woncheol Jang, University of Georgia, USA

Title: Analysis of Long Period Variable Stars with Nonparametric Tests for Trend Detection

IP10.

Sponsor: Korea/KSS

Session title: Inference for Time Series Models and Stochastic Processes

Organizer/Chair: Sangyeol Lee, Seoul National University, Korea

Speakers

1. Taewook Lee, Hankuk University of Foreign Studies, Korea

Title: Estimated quasi-maximum likelihood estimator for GARCH models based on non-parametric MLE

2. Okyoung Na, Kyonggi University, Korea

Title: Change point detection in copula models

3. Chi Tim Ng, The Chinese University of Hong Kong, Hong Kong

Title: Penalized likelihood method for factor analysis of time series data

4. Hiroki Masuda, Kyushu University, Japan

Title: Non-Gaussian quasi likelihood in estimating jump SDE

IP11.

Sponsor: Korea/KSS

Session title: Statistical Tools for Genome-wide Association Study

Co-Organizers: Jaewon Lee, Korea University, Korea

Sungho Won, Chung-Ang University, Korea

Chair: Makoto Aoshima, University of Tsukuba, Japan

Speakers:

1. Xiaofeng Zhu, Case Western Reserve University, USA

Title: Detecting rare variants in admixed populations

2. Sungho Won, Chung-Ang University, Korea

Title: Efficient strategy to detect gene x gene interaction and its application to schizophrenia

3. Hsin-Chou Yang, Academia Sinica, Taiwan
  Title: Homozygosity disequilibrium and its applications
4. Shu-Hui Chang, National Taiwan University, Taiwan
  Title: Association analysis of recurrent gap time data via multivariate Kendall's tau

IP12.

Sponsor: Korea/KSS
Session title: Multiscale Modeling
Organizer: Hee-Seok Oh, Seoul National University, Korea
Chair: Kyusang Yu, Konkuk University, Korea
Speakers:
  1. Piotr Fryzlewicz, London School of Economics, UK
    Title: Time-Threshold Maps: using information from wavelet reconstructions with
        all threshold values simultaneously
  2. Hee-Seok Oh, Seoul National University, Korea
    Title: A tour for empirical mode decomposition
  3. Jan Hanning, University of North Carolina at Chapel Hill, USA
    Title: Generalized fiducial Inference for modern statistical problems
  4. Kee-Hoon Kang, Hankuk U. Foreign Studies, Korea
    Title: Testing the equality of regression curves in multiple scale

IP13.

Sponsor: Japan/JSS
Session title: Inference for Stochastic Processes from High-Frequency Data
Organizer/Chair: Takaki Hayashi, Keio University, Japan
Speakers:
  1. Nakahiro Yoshida, University of Tokyo, Japan
    Title: Limit theorems and estimation for diffusions
  2. Masayuki Uchida, Osaka University, Japan
    Title: Adaptive estimation for discretely observed ergodic diffusion processes
  3. Keiji Nagai, Yokohama National University, Japan
   Title: Nonparametric Estimation for Quadratic Covariation of Two-dimensional
        Diffusion under Nonsychronous High Frequency Observations
  4. Shisuke Ikeda, National Graduate Institute for Policy Studies, Japan
    Title: Empirical Spectral Measure Approach to Econometric Analysis of High
        Frequency Financial Data

IP14.

Sponsor: Japan/JSS

Session title: Nonparametric and Semiparametric Methods in Econometrics

Organizer/Chair: Yoshihiko Nishiyama, Kyoto University, Japan

Speakers:

  1. Naoya Sueishi, University of Wisconsin-Madison, USA

     Title: Model selection criterion for infinite dimensional instrumental variable models

  2. Ryo Okui, Kyoto University, Japan

     Title: Model Averaging without Non-negative Constraints

  3. Taisuke Otsu, Yale University, USA

     Title: Bayesian analysis of moment restriction models using nonparametric priors

  4. Sokbae Lee, Seoul National University, Korea

     Title: Testing Monotonicity of Quantile Regression

IP15.

Sponsor: Japan/JSS

Session title: Incomplete Data Analysis and Latent Variable Model

Organizer: Yutaka Kano, Osaka University, Japan

Chair: Kosuke Imai, Princeton University, USA

Speakers:

  1. Xinyuan Song, Chinese University of Hong Kong, HK

     Title: A Bayesian analysis of mixture structural equation models with non-ignorable missing Data

  2. Ke-Hai Yuan, University of Notre Dame, USA

     Title: Bias and Efficiency for SEM with Missing Data and Auxiliary Variables: Robust Method versus Normal Distribution Based ML

  3. John W. Graham, Penn State University, USA

     Title: Simulation Methods for Structural Equation Modeling with Missing Data

  4. Yutaka Kano, Osaka University, Japan

     Title: NMARness and approximate population bias of the direct MLE in the analysis of missing data

IP16.

Sponsor: Japan/JSS

Session title: Stochastic Analysis on Large Scale Interacting Systems

Organizer/Chair: Tadahisa Funaki, University of Tokyo, Japan

Speakers:

   1. Fraydoun Rezakhanlou, University of California, Berkeley, USA

     Title: Symplectic diffusions

   2. Hirofumi Osada, Kyushu University, Japan

     Title: Ginibre random point field

   3. Yukio Nagahata, Osaka University, Japan

     Title: Scaling limit for multi-species exclusion process

   4. Yong Liu, Peking University, China

     Title: A Singular 1-D Hamilton-Jacobi Equation, with Application to

IP17.

Sponsor: Japan/JSS

Session title: Bootstrap Methods

Organizer: Hidetoshi Shimodaira, Tokyo Institute of Technology, Japan

Chair: Yoshihiko Maesono, Kyushu University, Japan

Speakers:

   1. Bodhisattva Sen, University of Cambridge, UK

     Title: Bootstrap in Two Non-standard Semi-parametric Problems

   2. Guang Cheng, Purdue University, USA

     Title: Semiparametric Model-Based Bootstrap

   3. Arindam Chatterjee, Indian Statistical Institute, India

     Title: Bootstrap for adaptive lasso estimators in increasing dimensions

   4. Hidetoshi Shimodaira, Tokyo Institute of Technology, Japan

    Title: Converting a Bayesian confidence value into a frequentist by reversing the
        sign of the data length

IP18.

Sponsor: Japan/ISM

Session title: Entropy Methods in Statistics

Organizer: Yoichi Nishiyama, ISM, Japan

Chair: Shinto Eguchi, Institute of Statistical Mathematics, Japan

Speakers:

   1. Taiji Suzuki, University of Tokyo, Japan

     Title: Fast Learning Rate of Non-Sparse Multiple Kernel Learning and Optimal

Regularization Strategies

2. Ilia Negri, University of Bergamo, Italy

   Title: Applications of entropy methods to some statistical tests for diffusion processes

3. Yoichi Nishiyama, Institute of Statistical Mathematics, Japan

   Title: Adaptive semiparametric estimation for diffusion processes

4. Harry van Zanten, Eindhoven University of Technology, Netherlands

   Title: Entropy methods in Bayesian nonparametrics

IP19.

Sponsor: India

Session title: Random Matrix: Theory and Applications

Organizer/Chair: Arup Bose, Indian Statistical Institute, India

Speakers:

1. Jack Silverstein, North Carolina State University, USA

   Title: Estimating Population Eigenvalues From Large Dimensional Sample Covariance Matrices

2. Shurong Zheng, North Normal University, China

   Title: Central limit theorems for linear spectral statistics of large dimensional F-matrices under the alternative hypotheses

3. Wang Zhou, National University of Singapore, Singapore

   Title: Smoothed empirical spectral distribution of sample covariance matrices

4. Paul Bourgade, Harvard University, USA

   Title: Universality for beta ensembles

IP20.

Sponsor: India

Session title: Multivariate Quantiles and Related Statistical Methods

Organizer/Chair: Biman Chakraborty, University of Birmingham, UK

Speakers:

1. Snigdhansu Chatterjee, University of Minnesota, USA

   Title: On multivariate generalized spatial quantiles, regression and applications

2. Ying Wei, Columbia University, USA

   Title: Growth charts for individual growth pathes

3. Jyrki Mottonen, University of Helsinki, Finland

   Title: Robust dimension reduction and coefficient estimation in multivariate multiple

regression using LAD-lasso

4. Ivan Mizera, University of Alberta, Canada

Title: Halfspace depth: low-dimensional computation revisited

IP21.

Sponsor: India

Session title: Design of Experiments

Organizer/Chair: Aloke Dey, Indian Statistical Institute, India

Speakers:

1. Sanpei Kageyama, Hiroshima University, Japan

Title: Combinatorics on Resolvability of Incomplete Block Designs

2. Rajender Parsad, Indian Agricultural Statistics Research Institute, India

Title: Efficient Row-Column Designs for 2-colour Single Factor Microarray Experiments

3. Ashish Das, Indian Institute of Technology, India

Title: Optimal supersaturated designs

Discussant: Aloke Dey, Indian Statistical Institute, India

Title: Discussant's Remarks in the Session on Design of Experiments

IP22.

Sponsor: IISA

Session title: Heavy Tails and Extreme Value Theory

Organizer: Parthanil Roy, Michigan State University, USA

Chair: George Michailidis, University of Michigan, USA

Speakers:

1. Bikramjit Das, ETH Zurich, Switzerland

Title: Seeking hidden risks using regular variation

2. Rajat Subhra Hazra, University of Zurich

Title: Extremes of random patterned matrices

3. Krishanu Maulik, Indian Statistical Institute, India

Title: Free Subexponentiality

IP23.

Sponsor: IISA

Session title: Some Recent Advances in Nonparametric Statistics

Organizer: Bodhisattva Sen, Columbia University, USA

Chair: Johan Lim, Seoul National University, Korea

Speakers:

1. Jiahua Chen, University of British Columbia, Canada

   Title: Properties of the Adjusted Empirical Likelihood

2. Lutz Duembgen, University of Bern, Switzerland

   Title: Log-concave densities and bi-log-concave distribution functions

3. Emilio Seijo, Columbia University, USA

   Title: Nonparametric Least Squares Estimation of a Multivariate Convex Regression Function

IP24.

Sponsor: IISA

Session title: Statistical Methods in Genetic Epidemiology

Organizer: Nilanjan Chatterjee, National Cancer Institute, USA

Chair: Satoshi Kuriki, Institute of Statistical Mathematics, Japan

Speakers:

1. Xihong Lin, Harvard University, USA

   Title: Joint analysis of SNPs and gene expression data in genome-wide association studies

2. I-Shou Chang, National Health Research Institutes, Taiwan

   Title: Distribution of the number of false discoveries in large-scale family-based association testing with applications

3. Kai Yu, National Cancer Institute, USA

   Title: A Flexible Bayesian Model for Studying Gene-Environment Interaction

IP25.

Sponsor: Taiwan

Session title: Non- and Semi-parametric Methods and Applications

Organizer: Ming-Yen Cheng, National Taiwan University, Taiwan

Chair: Sokbae Lee, Seoul National University, Korea

Speakers:

1. Wen-Han Hwang, National Chung Hsing University, Taiwan

   Title: A semiparametric model for a functional behavioural response to capture in capture-recapture experiments

2. Ming-Yen Cheng, National Taiwan University, Taiwan

   Title: Local linear regression on manifolds and its geometric interpretation

3. Nan-Jung Hsu, National Tsing Hua University, Taiwan

   Title: A group lasso approach for nonstationary spatial-temporal covariance estimation

4. Jeng-Min Chiou, Academia Sinica, Taiwan

   Title: CLustering and prediction of functional data

IP26.

Sponsor: Taiwan

Session title: Advances in Survival Analysis

Organizer: Yi-Hau Chen, Academia Sinica, Taiwan

Chair: Sungho Won, Chung-Ang University, Korea

Speakers:

1. Weijing Wang, National Chiao Tung University, Taiwan

   Title: Semiparametric Regression Analysis for Survival Data in Presence of Cure

2. Yi-Kuan Tseng, National Central University, Taiwan

   Title: An Extended Hazard Model with Longitudinal Covariates

3. Yu-Jen Cheng, National Tsing Hua University, Taiwan

   Title: Analysis of Prevalent Survival Data

4. Yi-Hau Chen, Academia Sinica, Taiwan

   Title: Survival predication with high dimensional covariates

IP27.

Sponsor: Hong Kong

Session title: Recent Development in Semiparametric Time Series Models

Organizer: Yingcun Xia, National University of Singapore, Singapore

Chair: Junichi Hirukawa, Niigata University, Japan

Speakers:

1. Aurore Delaigle, University of Melbourne, Australia

   Title: Nonparametric estimation for a class of Levy processes

2. Cathy Chen, Feng Chia University, Taiwan

   Title: Semi-parametric quantile estimation for double threshold autoregressive models with exogenous variables and heteroskedasticity

3. Li-Shan Huang, National Tsinghua University, Taiwan

   Title: Analysis of deviance in generalized partial linear models

IP28.

Sponsor: Hong Kong

Session Title: Recent Advances in Time Series Analysis.

Organizer/Chair: Shiqing Ling, Hong Kong University of Science and Technology, Hong Kong

Speakers:

1. Shaojun Guo, Academia Sinica, China

   Title: Refitted cross-validation with applications to variance estimation in ultrahigh dimensional regression

2. Zhiyuan Zhang, Shanghai University of Finance and Economics, China

   Title: Volatility Inference in The Presence of Both Endogenous Time and Microstructure Noise

3. Jean-Michel Zakoian, CREST, France

   Title: Risk-parameter estimation in volatility models

IP29.

Sponsor: Australia and New Zealand

Session title: Interaction of Geometry, Set-valued Analysis and Spatial Statistics

Organizer: Estate Khmaladze, Victoria University of Wellington, New Zealand

Chair: Ethan Anderes, University of California at Davis, USA

Speakers:

1. Sung Nok Chiu, Hong Kong Baptist University, Hong Kong

   Title: Grain Distortions and Rotations in the Asymptotic Variance of Vacancy of the Boolean Model

2. Estate Khmaladze, Victoria University of Wellington, New Zealand

   Title: Contiguity theory for statistical problems where parameter is a set

3. Jiancang Zhuang, Institute of Statistical Mathematics, Japan

   Title: First- and second-order residual analysis of spatiotemporal point processes and applications in model evaluation

IP30.

Sponsor: Bernoulli Society

Session title: Interface of Probability and Mathematical Statistics I

Organizer: Edward Waymire, Oregon State University, USA

Chair: S.R.S. Varadhan, New York University, USA

Speakers:

1. Qi-Man Shao, Hong Kong University of Science and Technology, Hong Kong

Title: Cramer Type Moderate Deviations for Self-normalized Processes

2. Yee Whye The, University College London, UK

Title: Modelling Genetic Variations using Fragmentation-Coagulation Processes

3. Jelena Bradic, University of California, San Diego, USA

Title: Structured Selection in Partial Likelihood

IP31.

Sponsor: Australia and New Zealand

Session title: Mixed Models

Co-organizers: Samuel Muller, University of Sydney, Australia

and Alan Welsh, Australian National University, Australia

Chair: Alan Welsh, Australian National University, Australia

Speakers:

1. Annie Qu, University of Illinois at Urbana and Champaign, USA

Title: Conditional Inference Functions for Mixed-Effects Models with Unspecified Random-Effects Distribution

2. Lang Wu, University of British Columbia, Canada

Title: Mixed effects models for longitudinal and survival data

3. Janice Scealy, Australian National University, Australia

Title: Model selection in linear mixed models with the LASSO

4. Steve Haslett, Massey University, New Zealand

Title: How are BLUEs and BLUPs for linear models and linear mixed models linked?

IP32.

Sponsor: Singapore

Session title: Model Selection and High Dimensional Data Analysis

Organizer: Chenlei Leng, University of Singapore, Singapore

Chair: Helen Zhang, North Carolina State University, USA

Speakers:

1. Yoonkyung Lee, Ohio State University, USA

Title: Two tales of variable selection for high dimensional data: screening and model building

2. Zehua Chen, National University of Singapore, Singapore

Title: Sequential Lasso for feature selection with ultra-high dimensional feature space

3. Richard Samworth, University of Cambridge, UK

Title: Variable selection with error control: Another look at Stability Selection
4. Heng Lian, Nanyang Technological University, Singapore
Title: Simultaneous variable selection and constant coefficient identification in varying-coefficient models

IP33.

Sponsor: ICSA

Session title: Recent advances for Functional and fMRI Data.

Organizer/Chair: Jane-Ling Wang, University of California at Davis, USA

Speakers:
1. Ci-Ren Jiang, Academia Sinica, Taiwan
   Title: Functional single index models for longitudinal data
2. Tingting Zhang, University of Virginia, USA
   Title: A semi-parametric model for hemodynamic response with latency differences
3. Haipeng Shen, University of North Carolina, Chapel Hill, USA
   Title: Color Independent Component Analysis with an Application to Functional Magnetic Resonance Imaging

IP34.

Sponsor: ICSA

Session title: Statistical Inference Under High Dimensionality

Organizer/Chair: Hui Zou, University of Minnesota, USA

Speakers:
1. Yang Feng, Columbia University, USA
   Title: Likelihood Adaptively Modified Penalties and its Properties
2. Jack J. Lee, MD Anderson, USA
   Title: Selecting biomarkers for personalized medicine in randomized clinical trials via statistical learning methods
3. Bing Li, Penn State University, USA
   Title: A general theory of nonlinear sufficient dimension reduction: formulation and estimation
4. Runze Li, Penn State University, USA
   Title: Variable Selection in Linear Mixed Effects Models

IP35.

Sponsor: ICSA

Session title: Statistical Methods for High Dimensional Genomic Data

Organizer: Michael Wu, University of North Carolina, USA

Chair: Tianxi Cai, Harvard University, USA

Speakers:

1. Jung-ying Tzeng, North Carolina State University, USA

   Title: Detecting common and rare variants for general traits—gene-trait similarity regression for gene-level analysis

2. Kenneth Rice, University of Washington, USA

   Title: Asymptotics in GWAS: when do we need non-standard methods?

3. Yu Zhang, Penn State University, USA

   Title: A New Bayesian Algorithm for Interaction Mapping in Genome-wide Association Studies

4. Michael Wu, University of North Carolina at Chapel Hill, USA

   Title: Kernel machine based methods for gene-environment interaction testing in genetic association studies

IP36.

Sponsor: China

Session title: Random Walks and Particle Systems

Organizer/Chair: Dayue Chen, Peking University, China

Speakers:

1. Xinxing Chen, Shanghai Jiaotong University, China

   Title: Infinite collisions of two random walks on some wedge comb

2. Zhonggen Su, Zhejiang University, China

   Title: Asymptotic Normality for Random Integer Partitions

3. Masato Takei, Osaka Electro-Communication University, Japan

   Title: Some topics in reinforced random walks

4. Xinghua Zheng, Hong Kong University of Science and Technology, Hong Kong

   Title: A Phase Transition for Measure-valued SIR Epidemic Processes

IP37.

Sponsor: China

Session title: Applied Statistics in China

Organizer/Chair: Jianhua Guo, Northeastern Normal University, China

Speakers:

1. Guohua Zou, Chinese Academy of Sciences, China

Title: Penalized Weighted Least Squares Approach to Small Area Estimation

2. Deng Minghua, Peking University, China

Title: Learning the Regulatory network of Transcriptional Factor and microRNA Using Gaussian Graphical Model with Adaptive Lasso

3. Huazhen Lin, Southwest University of Finance and Economy , China

Title: A Direct Semiparametric Receiver Operating Characteristic Curve Regression with Unknown Link and Baseline Functions

4. Wensheng Zhu, Northeastern Normal University, China

Title: Nonparametric Covariate-Adjusted Association Tests Based on the Generalized Kendall's Tau

IP38.

Sponsor: China

Session title: Biostatistics and Related Topics

Organizers: Dayue Chen, Peking University, China

Chair: Geng Zhi, Peking University, China

Speakers:

1. Mingyao Ai, Peking University, China

Title: Construction of orthogonal Latin hypercubes of orders one and two

2. Min-Qian Liu, Nankai University, China

Title: Construction of nested orthogonal Latin hypercube designs

3. Ying Yang, Tsinghua University, China

Title: Asymptotic Behavior of the Level Set Estimate for Censored Data

4. Qihua Wang, Chinese Academy of Sciences, China

Title: Test conditional independence based on a likelihood ratio process

IP39.

Sponsor: IMS

Session title: Statistical Inference for Large Complex Networks

Organizer: Jie Peng, University of California at Davis, USA

Chair: Jimin Ding, Washington University in St. Louis, USA

Speakers:

1. Abel Rodriguez, University of California, Santa Cruz, USA

Title: Modeling collections of networks using nonparametric mixtures

2. Daniela Witten, University of Washington, USA

Title: Fast graphical model estimation and its applications

3. Jun Zhu, Sage Bionetworks, USA

   Title: Network of interactions underlying complex phenotypes

4. Jie Peng, University of California at Davis, USA

   Title: High-dimension network inference with re-sampling methods

IP40.

Sponsor: Bernoulli Society

Session title: Interface of Probability and Mathematical Statistics II

Organizer: Edward Waymire, Oregon State University, USA

Chair: Peter Hall, University of Melbourne, Australia

Speakers:

1. Takaki Hayashi, Keio University, Japan

   Title: High-frequency data and statistical methods

2. Melanie Bahlo, Walter and Eliza Hall Institute of Medical Research, Australia

   Title: Discovering Disease causing Mutations with high throughput DNA sequencing
   Data

3. Rabi Bhattacharya, University of Arizona, USA

   Title: Nonparametric Inference on Manifolds with Applications

IP41.

Sponsor: IMS

Session title: Nonparametric Multivariate Mixtures – Their Identifiability and Estimation

Organizer: Michael Levine, Purdue University, USA

Chair: Guang Cheng, Purdue University, USA

Speakers:

1. Ja-Yong Koo, Korea University, Korea

   Title: MINIMAX ESTIMATION FOR MIXTURES OF WISHART DISTRIBUTIONS

2 Weixin Yao, Kansas State University, USA

   Title: Mixture of Regression Models with Varying Mixing Proportions: A
   Semiparametric Approach

3. John Rhodes, University of Alaska-Fairbanks, USA

   Title: Algebraic Perspectives on Mixture Models

4. Katsumi Shimotsu, Hitotsubashi University, Japan

   Title: Nonparametric identification of multivariate mixtures

IP42.

Sponsor: IMS

Session title: Model Selection in Complex Problems

Organizer/Chair: Snigdhansu Chatterjee, University of Minnesota, USA

Speakers

   1. Jiming Jiang, University of California at Davis, USA

     Title: Restricted fence method for covariate selection in longitudinal data analysis

   2. Tapabrata Maiti, Michigan State University, USA

     Title: Bootstrap variable selection for small area estimation

   3. Hyonho Chun, Purdue University, USA

     Title: A sparse conditional graphical model for non-independent measurements

   4. Jin-Ting Zhang, National University of Singapore, Singapore

     Title: On the two-sample　high-dimensional Behrens-Fisher problem

IP43.

Sponsor: IMS

Session title: Spatial Statistics

Organizer: Marc G. Genton, Texas A&M University, USA

Chair: Hidetoshi Shimodaira, Tokyo Institute of Technology, Japan

Speakers:

   1. Ethan Anderes, University of California at Davis, USA

     Title: Nonstationary random fields and the gravitational lensing of the cosmic microwave background

   2. Huiyan Sang, Texas A&M University, USA

     Title: Hierarchical Spatial Model for Precipitation Data from Multiple Satellites

   3. Hsin-Cheng Huang, Academia Sinica, Taiwan

     Title: Geostatistical Regression Model Selection

IP44.

Sponsor: Korea/KSS

Session title: Recent Progress in Nonparametric Function Estimation

Organizer/Chair: Kyusang Yu, Konkuk University, Korea

Speakers:

   1. Ingrid van Keilegom, Universite Catholique de Louvain, Belgium

     Title: Semiparametric transformation models with endogeneity: a control function approach

   2. Johan Lim, Seoul National University, Korea

Title: Inference on Distribution Function from the ranked set samples

3. Byungtae Seo, Sungkyunkwan University, Korea

Title: Nonparametric estimation of distribution functions with incomplete data

4. Melanie Schienle, Humboldt-Universitaet zu Berlin, Germany

Title: Semiparametric Estimation with Generated Covariates

IP45.

Sponsor: Korea/KSS

Session title: Statistical Learning Methods in Functional/High Dimensional Data Analysis

Organizer: Cheolwoo Park, University of Georgia, USA

Chair: Woncheol Jang, University of Georgia, USA

Speakers:

1. Jeffrey D. Hart, Texas A&M University, USA

Title: An analysis of pulsation periods of long-period variable stars

2. Yingcun Xia, National University of Singapore, Singapore

Title: On A Principal Varying Coefficient Model

3. Jeffrey Morris, MD Anderson, USA

Title: Robust, Adaptive Functional and Image Regression in Functional Mixed Models

4. Juhyun Park, Lancaster University, UK

Title: Shape invariant modelling of pricing kernels and risk aversion

IP46.

Sponsor: India

Session title: Advances in Nonparametric Multivariate Statistics

Organizer: John Einmahl, Tilburg University, Netherlands

Chair: Probal Chaudhuri, Indian Statistical Institute, India

Speakers:

1. Jürg Hüsler, University of Bern, Switzerland

Title: Nonparametric multivariate longitudinal data analysis

2. Andrea Krajina, Georgia Augusta University Göttingen, Germany

Title: Distributional properties of wavelet thresholding

3. John Einmahl, Tilburg University, Netherlands

Title: Central limit theorems for level set estimators

4. Juan A. Cuesta-Albertos, Universidad de Cantabria, Spain

Title: Supervised classification for a family of Gaussian functional models

IP47.

Sponsor: India

Session title: Inference Methods for Complex Data Settings

Organizer: Minge Xie, Rutgers University, USA

Chair: Regina Liu, Rutgers University, USA

Speakers:

1. Douglas Simpson, University of Illinois at Urbana-Champaign, USA
   Title: Semiparametric functional regression with applications in quantitative ultrasound analysis
2. Samuel Kou, Harvard University, USA
   Title: Statistical challenges in protein folding
3. Gery Geenens, University of New South Wales, Australia
   Title: A nonparametric functional method for automatic signature recognition
4. Minge Xie, Rutgers University, USA
   Title: Confidence intervals and hypothesis tests for order statistics of parameters

IP48.

Sponsor: Singapore

Session title: Recent Advances in the Analysis of Interval-censored Failure Time Data

Organizer/Chair: (Tony) Jianguo Sun, University of Missouri, USA

Speakers:

1. Yangjin Kim, Korea University, Korea
   Title: Regression analysis of bivariate current status data using a multi-state model
2. Bin Zhang, University of Alabama at Birmingham, USA
   Title: Generalized odds-rate hazards models for interval-censored failure time data
3. Zhigang Zhang, Memorial Sloan-Kettering Cancer Center, USA
   Title: A large sample study of some smooth or non-smooth functionals of the NPMLE when interval censoring is present
4. Liang Zhu, St. Jude Children's Research Hospital, USA
   Title: A transformation approach for the analysis of interval-censored failure time data

IP49.

Sponsor: Singapore

Session title: Statistical Theory and Applications for High Dimensional Data
Organizer/Chair: Annie Qu, University of Illinois at Urbana-Champaign, USA
Speakers:
1. George Michailidis, University of Michigan, USA
   Title: Network Granger Causality with Inherent Group Structure
2. Jian-feng Yao, University of Hong Kong, HK
   Title: On estimation of the number of factors from large-dimensional data
3. Sheng Zhong, University of Illinois, USA
   Title: Time-variant clustering

IP50.

Sponsor: IMS
Session title: New Directions on Statistical Modeling of High Dimensional and Complex Data
Organizer: Fang Yao, University of Toronto, Canada
Chair: Chenlei Leng, National University of Singapore, Singapore
Speakers:
1. Feifang Hu, University of Virginia, USA
   Title: Statistical issues of trial design and personalized medicine
2. Bin Nan, University of Michigan, USA
   Title: High-dimensional multivariate regression with grouped variables via convex
          regularization
3. Helen Zhang, North Carolina State University, USA
   Title: Nonparametric Survival Probability Estimation for High-Dimensional Data

IP51.

Sponsor: Japan/JSS
Session title: Volume-of-Tube Method and Its Applications to Multiple Comparisons
Organizer: Satoshi Kuriki, ISM, Japan
Chair: Kei Kobayashi, Institute of Statistical Mathematics, Japan
Speakers:
1. Satoshi Kuriki, ISM, Japan
   Title: Likelihood ratio tests for positivity in polynomial regressions
2. Henry Wynn, London School of Economics, UK
   Title: Discrete tube theory via alpha complexes and monomial ideals
3. Yoshiyuki Ninomiya, Kyushu University, Japan

Title: Improving a geometrical approach for multiple testing problems
4. Jianyang Sun, Case Western Reserve University, USA
Title: Wonders of Tube Formulae and Modern Applications

IP52.
Sponsor: IMS

Session title: Object oriented data analysis

Organizer: Alicia Nieto-Reyes, Universidad de Cantabria, Spain

Chair: Juan Antonio Cuesta-Albertos, Universidad de Cantabria, Spain

Speakers:
1. Bo Wang, University of Leicester, UK
   Title: Generalized Gaussian Process Functional Regression Model for Non-Gaussian Functional Data
2. Vic Patrangenaru, Florida State University, USA
   Title: Nonparametric Data Analysis on Stratified Spaces
3. Alicia Nieto-Reyes, Universidad de Cantabria, Spain
   Title: Distribution of Sea-Waves
4. Manuel Febrero-Bande, Universidad de Santiago de Compostela, Spain
   Title: A simple multiway ANOVA for functional data