JKSC 2010

Joint Meeting of Japan-Korea Special Conference of Statistics
and
The 2nd Japan-Korea Statistics Conference of Young Researchers

February 2-3, 2010
50th Anniversary Hall of Okayama University, Okayama

Organizer:
Koji KURIHARA, Okayama University
Yutaka TANAKA, Nanzan University
Myung-Hoe HUH, Korea University
Jae Chang LEE, Korea University

Supported by
60th Anniversary Celebrations of Okayama University
Graduate School of Environmental Science, Okayama University
Faculty of Environmental Science and Technology, Okayama University
Korea University
Japanese Society of Computational Statistics
Korean Statistical Society
Wakimoto Memorial Fund
PROGRAM

February 2, Tuesday

[Main Hall]
9:50-10:00 Opening Ceremony

10:00-10:40 Special Session
Chaired by Myung-Hoe HUH (Korea University)

Koji KURIHARA (Okayama University)

Mutual Cooperation in Statistics: Japan-Korea Joint Conferences,
Wakimoto Memorial Fund and Others

Yutaka TANAKA (Nanzan University)

We started here in Okayama thirty years ago

Jae Chang LEE (Korea University)

10:40-11:40 Invited Session 1
Chaired by Sinsup CHO (Seoul National University)

Fuzzy Classification Structure Based Analyses Through High Dimensional Data Space

Mika SATO-Ilic (University of Tsukuba)

Truncation Parameter Selection in Binary Choice Models

Ja-Yong KOO (Korea University)

Peter T. KIM (University of Guelph)

Kwang-Rae KIM (Korea University)

Kyu-Dong CHO (Korea University)

11:40-13:10 Lunch

[Main Hall]
13:10-15:30 Young Researchers Session 1
Chaired by Chong Sun HONG (Sungkyunkwan University)

Wataru SAKAMOTO (Osaka University)
Permutation Test for Incomplete Paired Data with Application to CDNA Microarray Data

Donghyeon YU (Seoul National University)
Johan LIM (Seoul National University)
Woncheol JANG (University of Georgia)
Feng LIANG (University of Illinois)
Kyunga KIM (Seoul National University)
Byung Soo KIM (Yonsei University)

Score Tests for Zero-inflation and Over-dispersion in Correlated Count Data

Hwa-Kyung LIM (Korea University)
Juwon SONG (Korea University)

Beta-κ distribution, an application to extreme hydrologic events

Md. Sharwar MURSHED (Chonnam National University)
Jeong Soo PARK (Chonnam National University)

Simulation Study of Adaptive Group Sequential Procedure for Changing Sample Size

Toshiharu IKEYA (Tokai University)
Yoshiro YAMAMOTO (Tokai University)
Tomohiro NAKAMURA (Yamagata University)
Hideyuki DOUKE (Tokai University)

Optimal Thresholds from Mixture of Two Distributions

Chong Sun HONG (Sungkyunkwan University)
Jae Seon JOO (Sungkyunkwan University)

Visualization of influence patterns in Linear Subspace Method

Kuniyoshi HAYASHI (Hokkaido University)
Hiroyuki MINAMI (Hokkaido University)
Masahiro MIZUTA (Hokkaido University)

Multivariate Adaptive Regression Splines with Nonnegative Garrote Estimator

Hiroki MOTOGAITO (Osaka University)
Tomoyuki SUGIMOTO (Osaka University)
Masashi GOTO (Biostatistical Research Association)
Contributed Session 1
Chaired by Jeong Soo PARK (Chonnam National University)
Kaoru FUEDA (Okayama University)

Randomizing Sequences of Finite Length
Myung-Hoe HUH (Korea University)
Yonggoo LEE (ChungAng University)

Continuous-discrete transformation and multivariate analysis
Yasumasa BABA (The Institute of Statistical Mathematics)

Quasi-likelihood estimation for AR(1) process with the non-stationary ARCH errors
Sahm KIM (Chung-Ang University)

A derivation of omnibus algorithm from a group of well-known algorithms for calculating some function—an algebraic approach—
Tadashi NAKAMURA (Okayama University of Science)
Yasuhsia HIRAI (Okayama University)
Shingo WATADANI (Kurashiki University of Science and the Art)

Spatial Modeling of Extreme Values: A Case of Highest Daily Temperature in Korea
Sang Hoo YOON (Chonnam National University)
Young Saeng LEE (Chonnam National University)
YounWoo KIM (Gwangju Bank)
Jeong Soo Park (Chonnam National University)

Evaluation for approximations to the percentile of doubly non-central F-distribution and its application
Rikako HORII (Nanzan University)
Shin-ichi MATSUDA (Nanzan University)

Model Selection Criteria for Counting Data with Overdispersion and its Application to the Host-Parasite Relationship
Hyun-Joo KIM (Truman State University)
Joseph E. CAVANAUGH (University of Iowa)
Stephanie FORE (Truman State University)
Tad DALLAS (Truman State University)
15:30-15:50 Coffee Break

[Main Hall]

15:50-17:50 Young Researchers Session 2
Chaired by Changwan KANG (Dong-Eui University)
Masao UEKI (Yamagata University)

An Extension of Functional Cluster Analysis to Interval-Valued Functional Data
Kenji TOYODA (Hokkaido University)
Tomoyasu IKEDA (Hokkaido University)
Yuriko KOMIYA (Hokkaido University)
Masahiro MIZUTA (Hokkaido University)

Joint modeling of cluster size and clustered failure time
Hanna YOO (Korea University)
Jaewon LEE (Korea University)
Yang-Jin KIM (Ewha Womans University)

Some studies on horseshoe effects in Hayashi’s second method of quantification
Xueyan ZHAO (Nanzan University)
Yutaka TANAKA (Nanzan University)

A Comparative Study of Modelling Motor Insurance Data with Poisson and Negative Binomial Regression Model
In-mi KO (Korea University)
Sooyoung CHEON (Korea University)
Jong-Hoo CHOI (Korea University)

A variable selection tools in principal component analysis for Microsoft Excel
Liang ZHANG (Okayama University)
Masaya IIZUKA (Okayama University)
Yuichi MORI (Okayama University of Science)

A comparison of some approaches to dealing with binary variables in structural equation model
Sangoak DONG (Dong-Eui University)
Kyukon KIM (Dong-Eui University)
Changwan KANG (Dong-Eui University)
Sungho MOON (Pusan University of Foreign Studies)
Contributed Session 2

Chaired by Hideyuki DOUKE (Tokai University)
Jae Won LEE (Korea University)

Improving Genome-wide Association Studies for Family Design under Population Stratification
Sungho WON (Chung-Ang University)
Christoph LANGE (Harvard School of Public Health)

Confidence Interval Following Group Sequential Test in Clinical Trials
Sook Jung JO (Korea University)
Jae Won LEE (Korea University)

Step Down Multiple Comparison Procedure for Testing the Independence of a Specified Normal Random Variable and Each of Several Normal Random Variables
Tsunehisa IMADA (Tokai University)

Assessment of Datamining on Type-specific Persistence of Human Papillomavirus DNA
Ae Ran, PARK (Yonsei University)
Nam Hoon CHO (Yonsei University)
Ji Min SUNG (Yonsei University)

Statistical analysis of histopathological diagnosis reports with text mining
Yuichi ISHIBASHI (Okayama University)
Atsuko HARA (Kitasato University School of Medicine)
Isao OKAYASU (Kitasato University School of Medicine)
Koji KURIHARA (Okayama University)

Comparison of Statistical Models for Estimating Vaccine Efficacy in Recurrent Event Data under Various Heterogeneities
Soo Young LEE (Korea University)
Jae Won LEE (Korea University)

The properties of hotspot detection based on echelon
Fumio ISHIOKA (Okayama University)
Koji KURIHARA (Okayama University)

Welcome Party
February 3, Wednesday

[Main Hall]
9:30-11:30  **Young Researchers Session 3**
Chair: Myoungshic JHUN (Korea University)
Tadashi NAKAMURA (Okayama University of Science)

Decision Trees for Repeatedly Measured Data over Time
Soo-heang EO (Korea University)
HyungJun CHO (Korea University)

Forestry Structure and Distribution of Trees
Makiko ODA (Okayama University)
Fumio ISHIOKA (Okayama University)
Koji KURIHARA (Okayama University)

Support Vector Machine Using Clustering Methods
Sungwan BANG (Korea University)
Myoungshic JHUN (Korea University)

Optimizing gate assignments at airport terminal
Ahmed Thanyan Al-SULTAN (Okayama University)
Fumio ISHIOKA (Okayama University)
Koji KURIHARA (Okayama University)

Comparative study of time series clustering
Hanwoom HONG (Seoul National University)
Hwan-sik JUNG (Seoul National University)
Minjeong PARK (Pohang Mathematics Institute)
Sinsup CHO (Seoul National University)

Comparison of detecting geometric anisotropy between fitting to ellipse method and likelihood based method
Takafumi KUBOTA (Okayama University)
Tomoyuki TARUMI (Okayama University)

[Meeting room]
9:30-11:50  **Contributed Session 3**
Chair: Juwon SONG (Korea University)
Yoshihiro YAJIMA (University of Tokyo)
The Similarity Plot for Comparing Clustering Methods  
*Dae-Heung JANG (Pukyong National University)*

Model Selection in a Gaussian Process Semiparametric Regression Model  
*Taeryon CHOI (Korea University)*

Permutation Tests in the Multivariate Regression Model  
*Sooncheol SOHN (Korea University)*  
*Byoung Cheol JUNG (University of Seoul)*  
*Myoungshic JHUN (Korea University)*

Simulation Study for Partial Least Squares Regression  
*Atsuki HASHIMOTO (Nanzan University)*  
*Yutaka TANAKA (Nanzan University)*

Nonlinear Regression for an Asymptotic Option Price under CGMY Processes  
*Seongjoo SONG (Korea University)*  
*Jaehong JEONG (Korea University)*

Covariance Tapering for Prediction of Large Spatial Data Sets  
*Toshihiro HIRANO (University of Tokyo)*  
*Yoshihiro YAJIMA (University of Tokyo)*

A Review of the Calibration Estimation in Sample Survey  
*Mingue PARK (Korea University)*

11:50-13:20 Lunch  
[Main Hall]

13:20-14:20 Invited Session 2  
Chaired by *Masahiro MIZUTA (Hokkaido University)*

A Nonparametric Test for the Existence of Moments  
*Kohtaro HITOMI (Kyoto Institute of Technology)*  
*Yoshihiko NISHIYAMA (Kyoto University)*  
*Keiji NAGAI (Yokohama National University)*
A Minimum Asymptotic Mean Squared Error Feedback Controller for an ARIMA(0,1,1) Noise Process with a Starting Offset, and Its Resetting Design

Changsoon PARK (Chung-Ang University)

14:20-15:30 Discussion

15:30- Closing Ceremony

19:00- Banquet (at Recent Culture Hotel)
Organizing Committee
- KURIHARA, Koji  Okayama University
- TANAKA, Yutaka  Nanzan University
- HUH, Myung-Hoe  Korea University
- LEE, Jae Chang  Korea University

Scientific Program Committee
- **Japanese side**
  - TANAKA, Yutaka  Nanzan University
  - KURIHARA, Koji  Okayama University
  - ADACHI, Kohei  Osaka University
  - MIZUTA, Masahiro  Hokkaido University
  - SAKAMOTO, Wataru  Osaka University
  - SAKAORI, Fumitake  Chuo University
  - TOMITA, Makoto  Tokyo Medical and Dental University

- **Korean side**
  - LEE, Jae Chang  Korea University
  - HUH, Myung-Hoe  Korea University
  - SONG, Juwon  Korea University
  - PARK, Mingue  Korea University
  - CHO, HyungJun  Korea University

Local Organizing Committee
- KURIHARA, Koji  Okayama University
- TANAKA, Yutaka  Nanzan University
- BABA, Yasumasa  The Institute of Statistical Mathematics
- DOUKE, Hideyuki  Tokai University
- ISHIBASHI, Yuichi  Okayama University
- MATSUDA, Shin-ichi  Nanzan University
- NAKAMURA, Tadashi  Okayama University of Science
- ODAKA, Yoshimasa  Kurashiki University of Science and the Arts
- SAKATA, Toshio  Kyusyu University
- SHINMURA, Shuichi  Seikei University
- TARUMI, Tomoyuki  Okayama University
- YAJIMA, Yoshio  University of Tokyo
- YAMASHITA, Hiroshi  Mathematical Systems, Inc.

Executive Committee
- KURIHARA, Koji  Okayama University
- ODAKA, Yoshimasa  Kurashiki University of Science and the Arts
- IIZUKA, Masaya  Okayama University
- ISHIOKA, Fumio  Okayama University
- FUEDA, Kaoru  Okayama University
- KUBOTA, Takafumi  Okayama University
- MOON, Sungho  Pusan University of Foreign Studies
- NAKAGAWA, Shigekazu  Kurashiki University of Science and the Arts
- YANAGI, Kikuo  Okayama University of Science