Open Journal of Statistics

(a) Aggregate Model

(b) Heterogeneity Model

(c) Dynamic Model with same pattern of variations

(d) Dynamic Model Incorporating Heterogeneity
Journal Editorial Board

ISSN 2161-718X (Print)   ISSN 2161-7198 (Online)
http://www.scirp.org/journal/ojs

Editor-in-Chief

Prof. Qihua Wang

Chinese Academy of Sciences, China

Editorial Board

Prof. Ana M. Aguilera
University of Granada, Spain

Prof. Essam K. Al-Hussaini
Alexandria University, Egypt

Prof. Ernief B. Barrios
University of the Philippines, Philippines

Prof. Alexander V. Bulinski
Lomonosov Moscow State University, Russia

Prof. Junsoo Lee
University of Alabama, USA

Prof. Tae-Hwy Lee
University of California, Riverside, USA

Dr. Qizhai Li
Chinese Academy of Sciences, China

Dr. Xuewen Lu
University of Calgary, Canada

Prof. Claudio Morana
University of Milano-Bicocca, Italy

Prof. Thu Pham-Gia
University of Moncton, Canada

Prof. Gengsheng Qin
Georgia State University, USA

Prof. Kalyan Raman
Northwestern University, USA

Prof. Mohammad Z. Raqab
University of Jordan, Jordan

Dr. Jose Antonio Roldán-Nofuentes
University of Granada, Spain

Prof. Sunil K. Sapra
California State University, Los Angeles, USA

Prof. Raghu Nandan Sengupta
Indian Institute of Technology Kanpur, India

Prof. Siva Sivaganesan
University of Cincinnati, USA

Prof. Jianguo Sun
University of Missouri, USA

Prof. Aida Toma
Academy of Economic Studies, Romania

Dr. Florin Vaida
University of California, San Diego, USA

Dr. Haiyan Wang
Kansas State University, USA

Prof. Augustine Chi Mou Wong
York University, Canada

Dr. Peng Zeng
Auburn University, USA

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

Prof. Yichuan Zhao
Georgia State University, USA

Dr. Wang Zhou
National University of Singapore, Singapore
Table of Contents

Volume 7   Number 1                                  February 2017

Inferences on the Difference of Two Proportions: A Bayesian Approach
   T. Pham-Gia, N. V. Thin, P. P. Doan ............................................................ 1

The Conditional Poisson Process and the Erlang and Negative Binomial Distributions
   A. Agarwal, P. Bajorski, D. L. Farnsworth, J. E. Marengo, W. Qian ......... 16

RobCoP: A Matlab Package for Robust CoPlot Analysis
   Y. K. Atilgan, E. L. Atilgan ................................................................. 23

An Application of Heterogeneous Bayesian Regression Models with Time Varying Coefficients to Explore the Relationship between Customer Satisfaction and Shareholder Value
   D. K. H. Fong, Q. Chen, Z. Chen, R. Wang ........................................... 36

Microarray Analysis Using Rank Order Statistics for ARCH Residual Empirical Process
   H. K. Solvang, M. Taniguchi ................................................................. 54

Measuring the Intraday Jump Tail Risk of Financial Asset Price with Noisy High Frequency Data
   C. Yu, X. J. Zhao, F. Zhang ................................................................. 72

A New Generalized Weibull-Exponential Frailty Model
   A. Shanubhogue, A. R. Sinojiya ............................................................ 84

Marginal Distribution Plots for Proportional Hazards Models with Time-Dependent Covariates or Time-Varying Regression Coefficients
   Q. Q. Yu, J. Y. Dong, G. Wong ............................................................. 92

Application of SARIMA Model on Money Supply
   S. C. Shen, S. Chen ................................................................. 112

Forecasting Foreign Direct Investment to Zambia: A Time Series Analysis
   S. Jere, B. Kasense, O. Chilyabanyama ................................................ 122
An Approximation Method for a Maximum Likelihood Equation System and Application to the Analysis of Accidents Data

A. N’Guessan, I. C. Geraldo, B. Hafidi .......................................................... 132

Use of BayesSim and Smoothing to Enhance Simulation Studies

J. D. Hart ........................................................................................................... 153
Open Journal of Statistics (OJS)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $69 per issue.
To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements
Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)
E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:
Copyright © 2017 by Scientific Research Publishing Inc.
This work is licensed under the Creative Commons Attribution International License (CC BY).
http://creativecommons.org/licenses/by/4.0/

Copyright for individual papers of the journal:
Copyright © 2017 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:
Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability
Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:
E-mail: ojs@scirp.org
Call for Papers

Open Journal of Statistics

ISSN 2161-718X (Print)   ISSN 2161-7198 (Online)
http://www.scirp.org/journal/ojs

Open Journal of Statistics (OJS) is an international journal dedicated to the latest advancement of statistics. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of statistics.

Editor-in-Chief

Prof. Qihua Wang

Chinese Academy of Sciences, China

Editorial Board

Prof. Ana M. Aguilera
Prof. Essam K. Al-Hussaini
Prof. Erniel B. Barrios
Prof. Alexander V. Bulinski
Prof. Junsoo Lee
Prof. Tae-Hwy Lee
Dr. Qizhai Li
Dr. Xuewen Lu
Prof. Claudio Morana

Prof. Thu Pham-Gia
Prof. Gengsheng Qin
Prof. Kalyan Raman
Prof. Mohammad Z. Raqab
Dr. Jose Antonio Roldán-Nofuentes
Prof. Sunil K. Sapra
Prof. Raghu NANDAN Sengupta
Prof. Siva Sivaganesan
Prof. Jianguo Sun

Prof. Aida Toma
Dr. Florin Vaida
Dr. Haiyan Wang
Prof. Augustine Chi Mou Wong
Dr. Peng Zeng
Dr. Jin-Ting Zhang
Prof. Yichuan Zhao
Dr. Wang Zhou

Subject Coverage

This journal invites original research and review papers that address the following issues in statistics. Topics of interest include, but are not limited to:

- Actuarial science
- Applied information economics
- Asymptotic statistics
- Bayesian statistics
- Biostatistics
- Business statistics
- Causal inference
- Chemometrics
- Computational statistics
- Data mining
- Decision theory
- Demography
- Descriptive statistics
- Design of experiments
- Econometrics
- Energy statistics
- Engineering statistics
- Epidemiology
- Estimation theory
- Geographic information systems
- Graphical models and related theory
- High dimensional data analysis
- Image processing
- Multivariate analysis
- Non-parametric statistics
- Parametric statistics
- Psychological statistics
- Regression analysis
- Reliability
- Reliability engineering
- Sample survey
- Sampling theory
- Semiparametric statistics
- Social statistics
- Statistical analysis with complex data
- Statistical computing
- Statistical inference
- Statistical methods
- Survival analysis
- Theoretic methods
- Time series analysis

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the OJS.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

http://www.scirp.org/journal/ojs

Email: ojs@scirp.org
What is SCIRP?
Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?
All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience

Website: http://www.scirp.org
Subscription: sub@scirp.org
Advertisement: service@scirp.org