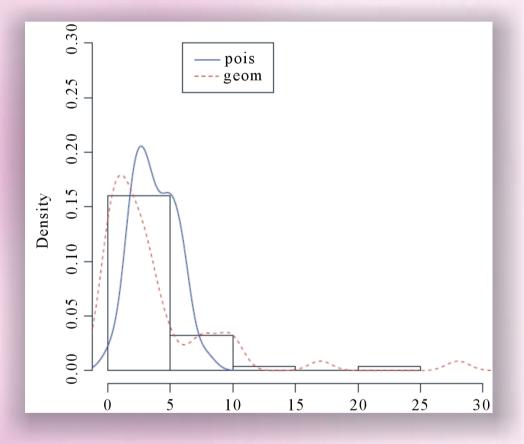


Open Journal of Statistics





www.scirp.org/journal/ojs

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 Prof. Essam K. Al-Hussaini **Prof. Erniel B. Barrios** Prof. Alexander V. Bulinski **Prof. Kambiz Farahmand** Prof. Junsoo Lee Prof. Tae-Hwy Lee Dr. Qizhai Li Dr. Xuewen Lu Prof. Thu Pham-Gia Dr. Gengsheng Qin Prof. Kalyan Raman Prof. Mohammad Z. Raqab Dr. Jose Antonio Roldán-Nofuentes **Prof. Andrew Rosalsky** Prof. Sunil K. Sapra **Prof. Siva Sivaganesan** Dr. Xinyuan Song Dr. Zheng Su **Prof. Jianguo Sun Prof. Aida Toma** Prof. Vladimir V. Ulyanov Dr. Florin Vaida Dr. Haiyan Wang Prof. Augustine Chi Mou Wong Dr. Liqing Yan Dr. Peng Zeng Dr. Hongmei Zhang Dr. Jin-Ting Zhang Dr. Yichuan Zhao Dr. Wang Zhou Prof. Xiao-Hua Zhou

University of Granada, Spain Alexandria University, Egypt University of the Philippines, Philippines Lomonosov Moscow State University, Russia University of Ulster, UK University of Alabama, USA University of California, Riverside, USA Chinese Academy of Sciences, China University of Calgary, Canada University of Moncton, Canada Georgia State University, USA Northwestern University, USA University of Jordan, Jordan University of Granada, Spain University of Florida, USA California State University, Los Angeles, USA University of Cincinnati, USA Chinese University of Hong Kong, China Genentech Inc., USA University of Missouri, USA Academy of Economic Studies, Romania Moscow State University, Russia University of California, San Diego, USA Kansas State University, USA York University, Canada University of Florida, USA Auburn University, USA University of South Carolina, Columbia, USA National University of Singapore, Singapore Georgia State University, USA National University of Singapore, Singapore University of Washington, USA

Guest Reviewers

- Subhadip Bandyopadhyay Abdelouahab Bibi Michael Davis Jianjun Gan Antony Gautier Anwar H. Joarder
- Darsh Joshi Alexander de Leon Xinmin Li Nengxiang Ling Jingzhou Liu Yu Miao

Parameshwar Pandit Serguei Pergamenchtchikov Biswajit Sarkar Abderrahim Taamouti Nian-Sheng Tang



TABLE OF CONTENTS

Volume 2 Number 4

October 2012

Minimum Penalized Hellinger Distance for Model Selection in Small Samples
P. Ngom, B. Ntep
Edgeworth Approximation of a Finite Sample Distribution for an AR(1) Model with Measurement Error
S. Nagata
Linear Maximum Likelihood Regression Analysis for Untransformed Log-Normally Distributed Data
S. M. Gustavsson, S. Johannesson, G. Sallsten, E. M. Andersson
Flexible Model Selection Criterion for Multiple Regression
K. Takezawa40
Regularities in Sequences of Observations
M. M. Khoshyaran408
Maximum Entropy and Maximum Likelihood Estimation for the Three-Parameter Kappa Distribution
B. Kumphon41
Maximum Likelihood Estimation for Generalized Pareto Distribution under Progressive
Censoring with Binomial Removals
B. Al-Zahrani
A General Framework for Determining the Temporal and Evolutionary Dynamics of
Religion-Based Website Popularity on the Internet
M. R. Golinski, C. Petersen
The Association of Hepatitis B Vaccine Supply Policy with Timing of Receipt of the First Dose of
Hepatitis B Vaccination
Z. Zhao, T. V. Murphy
Tail Quantile Estimation of Heteroskedastic Intraday Increases in Peak Electricity Demand
C. Sigauke, A. Verster, D. Chikobvu43
A Note on Detecting "More IFR-ness" Property of Life Distributions
P. V. Pandit, S. Inginashetty44
Study on the Normal and Skewed Distribution of Isometric Grouping
Z. S. Jia, W. K. Jia
A Simple Statistical Estimation of One's Performance in an MCQ Examination, Based upon
Mock Test Results, Using Binomial Distribution of Probability
S. Roy, P. Majumdar452
An Application of Non-Linear Cobb-Douglas Production Function to Selected Manufacturing
Industries in Bangladesh
Md. M. Hossain, A. K. Majumder, T. Basak

The figure on the front cover is from the article published in Open Journal of Statistics, 2012, Vol. 2, No. 4, pp. 369-382 by Papa Ngom and Bertrand Ntep.

Open Journal of Statistics (OJS)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Statistics* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$39 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) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: sub@scirp.org

COPYRIGHT

Copyright©2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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



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

Editorial Board

Prof. Ana M. Aguilera Prof. Essam K. Al-Hussaini Prof. Erniel B. Barrios Prof. Alexander V. Bulinski Prof. Kambiz Farahmand Prof. Junsoo Lee Prof. Tae-Hwy Lee Dr. Qizhai Li Dr. Xuewen Lu Prof. Thu Pham-Gia Dr. Gengsheng Qin Chinese Academy of Sciences, China

Prof. Kalyan Raman Prof. Mohammad Z. Raqab Dr. Jose Antonio Roldán-Nofuentes Prof. Andrew Rosalsky Prof. Sunil K. Sapra Prof. Siva Sivaganesan Dr. Xinyuan Song Dr. Zheng Su Prof. Jianguo Sun Prof. Aida Toma Prof. Vladimir V. Ulyanov Dr. Florin Vaida Dr. Haiyan Wang Prof. Augustine Chi Mou Wong Dr. Liqing Yan Dr. Peng Zeng Dr. Hongmei Zhang Dr. Jin-Ting Zhang Dr. Yichuan Zhao Dr. Wang Zhou Prof. Xiao-Hua 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
- \blacklozenge 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
- \blacklozenge Graphic 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
- 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

Call for Papers