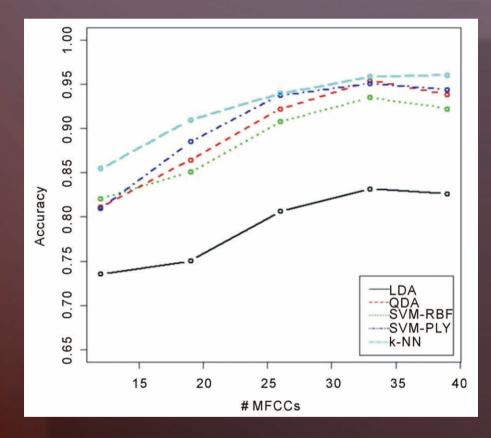


Open Journal of Statistics





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. 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. Siva Sivaganesan Dr. Zheng Su **Prof. Jianguo Sun Prof. Aida Toma** Dr. Florin Vaida Dr. Haiyan Wang **Prof. Augustine Chi Mou Wong** Dr. Peng Zeng Dr. Hongmei Zhang **Dr. Jin-Ting Zhang** Prof. Yichuan Zhao Dr. Wang Zhou

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

Guest Reviewers

Subhadip Bandyopadhyay Abdelouahab Bibi Huaihou Chen Michael Davis Jianjun Gan Antony Gautier Anwar H. Joarder Darsh Joshi Alexander de Leon Xinmin Li Nengxiang Ling Yu Miao Serguei Pergamenchtchikov Raghu Nandan Sengupta Abderrahim Taamouti Nian-Sheng Tang



Table of Contents

Volume 4 Number 4 Ju	une 2014
Ratio-Cum-Product Estimator Using Multiple Auxiliary Attributes in Single Phase Sampling	
J. Kung'u, L. Odongo	239
Ratio-Cum-Product Estimator Using Multiple Auxiliary Attributes in Two-Phase Sampling	
J. Kung'u, L. Odongo	246
A Comparison of Classifiers in Performing Speaker Accent Recognition Using MFCCs	
Z. C. Ma, E. Fokoué	258
From the Industry Perspective of Chinese Game Industry Research in Quantitative Analysis	
N. Wang, Y. T. Zhou, L. Zhang	267
Probability Brainteasers for College Students	
S. Rabbani, H. Shahmohamad	273
Statistical Brainteasers in Algorithms, Counting & Strategy	
S. Rabbani, H. Shahmohamad	278
A Class of Estimators for Population Ratio in Simple Random Sampling Using Variable Transform	nation
A. C. Onyeka, V. U. Nlebedim, C. H. Izunobi	284
Factor Vector Autoregressive Estimation of Heteroskedastic Persistent and Non Persistent Processes Subject to Structural Breaks	
C. Morana	292
Statistical Diagnosis for Random Right Censored Data Based on Kaplan-Meier Product Limit Esti	imate
S. L. Wang, X. H. Deng, L. Zheng	

Open Journal of Statistics (OJS)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Statistics* (Online at Scientific Research Publishing, <u>www.SciRP.org</u>) is published bimonthly by Scientific Research Publishing, Inc., USA.

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: <u>service@scirp.org</u>

Reprints (minimum quantity 100 copies) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: <u>sub@scirp.org</u>

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2014 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 © 2014 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

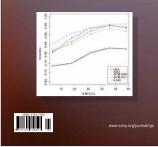
Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any 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: <u>ojs@scirp.org</u>

Call for Papers

Statistics



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. Oihua Wang

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. Oizhai Li Dr. Xuewen Lu **Prof. Claudio Morana**

Subject Coverage

Chinese Academy of Sciences, China

Prof. Thu Pham-Gia Prof. Gengsheng Qin Prof. Kalvan Raman Prof. Mohammad Z. Raqab Dr. Jose Antonio Roldán-Nofuentes Prof. Sunil K. Sapra Prof. Siva Sivaganesan Dr. Zheng Su **Prof. Jianguo Sun**

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

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
- Graphic models and related theory
- High dimensional data analysis
- Image processing
- Multivariate analysis
- Non-parametric statistics
- Parametric statistics
- Psychological statistics
- Regression analysis

- Reliability engineering
- Sample survey

- Statistical analysis with complex data
- Statistical inference
- Statistical methods
- 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

- Reliability

 - Sampling theory
 - Semiparametric statistics
 - Social statistics
 - Statistical computing

 - Survival analysis