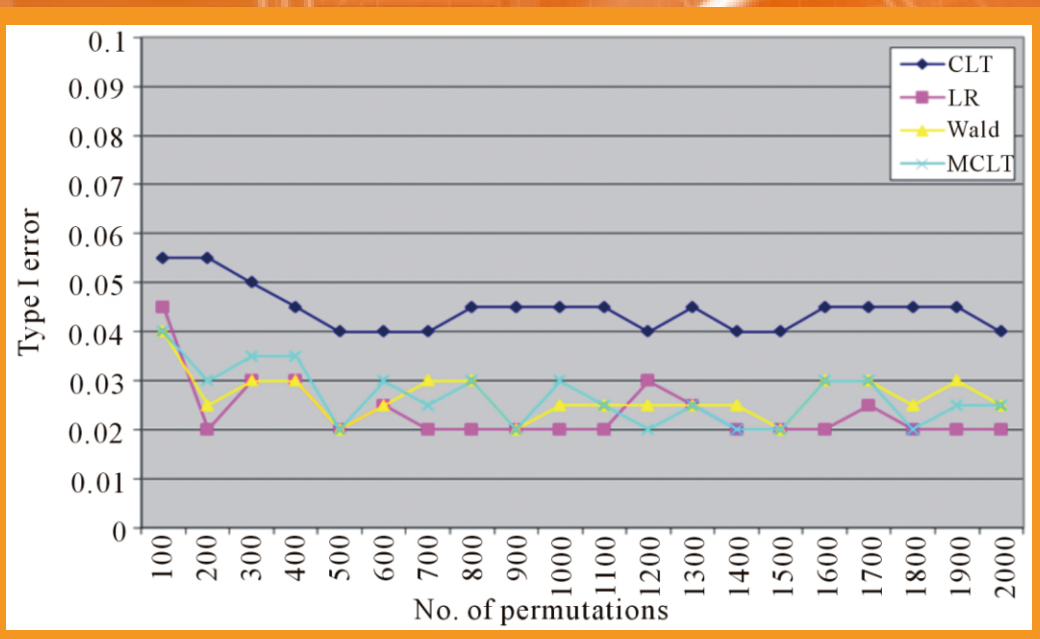




Open Journal of Statistics



ISSN: 2161-718X



9 772161 718001 03

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

Dr. Ana M. Aguilera	University of Granada, Spain
Prof. Essam K. Al-Hussaini	Alexandria University, Egypt
Prof. Erniel B. Barrios	University of the Philippines, Philippines
Prof. Alexander V. Bulinski	Lomonosov Moscow State University, Russia
Prof. Kambiz Farahmand	University of Ulster, UK
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. Thu Pham-Gia	University of Moncton, Canada
Dr. 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. Andrew Rosalsky	University of Florida, USA
Prof. Sunil K. Sapra	California State University, Los Angeles, USA
Prof. Siva Sivaganesan	University of Cincinnati, USA
Dr. Xinyuan Song	Chinese University of Hong Kong, China
Dr. Zheng Su	Genentech Inc., USA
Prof. Jianguo Sun	University of Missouri, USA
Prof. Aida Toma	Academy of Economic Studies, Romania
Prof. Vladimir V. Ulyanov	Moscow State University, Russia
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. Liqing Yan	University of Florida, USA
Dr. Peng Zeng	Auburn University, USA
Dr. Hongmei Zhang	University of South Carolina, Columbia, USA
Dr. Jin-Ting Zhang	National University of Singapore, Singapore
Dr. Yichuan Zhao	Georgia State University, USA
Dr. Wang Zhou	National University of Singapore, Singapore
Prof. Xiao-Hua Zhou	University of Washington, USA

Guest Reviewers

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

TABLE OF CONTENTS

Volume 2 Number 3

July 2012

Comparisons of VAR Model and Models Created by Genetic Programming in Consumer Price Index Prediction in Vietnam

P. Van Khanh.....237

PC-VAR Estimation of Vector Autoregressive Models

C. Morana.....251

An Empirical Bayes Approach to Robust Variance Estimation: A Statistical Proposal for Quantitative Medical Image Testing

Z.-Q. J. Lu, C. Fenimore, R. H. Gottlieb, C. C. Jaffe.....260

Sample Size Determination and Statistical Hypothesis Testing for Core Centration in Press Coated Tablets

P. L. de Micheaux, V. Lemaire.....269

The Permutation Test as an Ancillary Procedure for Comparing Zero-Inflated Continuous Distributions

J. X. Wu, L. Zhang, W. D. Johnson.....274

Subsampling Method for Robust Estimation of Regression Models

M. Tsao, X. Ling.....281

Unbalanced Regressions and Spurious Inference

D. Ventosa-Santaulària.....297

Multivariate Ratio Estimator of the Population Total under Stratified Random Sampling

O. O. Ngesa, G. O. Orwa, R. O. Otieno, H. M. Murray.....300

The Shortest Width Confidence Interval for Odds Ratio in Logistic Regression

E. Demidenko.....305

A Revision of AIC for Normal Error Models

K. Takezawa.....309

An Exceptional Generalization of the Poisson Distribution

P.-E. Hagmark.....313

A New Method of Construction of Robust Second Order Slope Rotatable Designs Using Pairwise Balanced Designs

B. Re. Victorbabu, K. Rajyalakshmi.....319

Statistical Comparison of Eight Alternative Methods for the Analysis of Paired Sample Data with Applications

G. U. Ebuh, I. C. A. Oyeka.....328

Research Performance Assessment Based on T-Indicator

L. Zhang, X. Tan, Q. Du, J. Wang.....346

Numerical Solution of Integro-Differential Equations with Local Polynomial Regression

L. Y. Su, T. S. Yan, Y. Y. Zhao, F. L. Li, R. H. Liu.....352

Prediction Based on Generalized Order Statistics from a Mixture of Rayleigh Distributions Using MCMC Algorithm

T. A. Abushal, A. M. Al-Zaydi.....356

The figure on the front cover is from the article published in *Open Journal of Statistics*, 2012, Vol. 2, No. 3, pp. 274-280 by Jixiang Wu, Lei Zhang and William D. Johnson.

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 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

Dr. 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

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
- ◆ 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