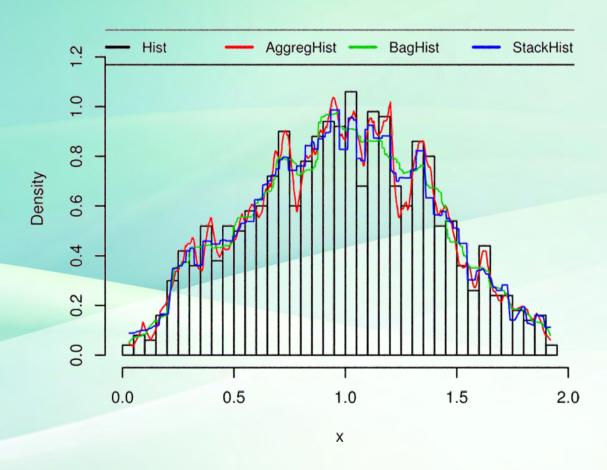


# Open Journal of Statistics

### Model 11





## **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. AguileraUniversity of Granada, SpainProf. Essam K. Al-HussainiAlexandria University, Egypt

Prof. Erniel B. BarriosUniversity of the Philippines, PhilippinesProf. Alexander V. BulinskiLomonosov Moscow State University, Russia

Prof. Kambiz FarahmandUniversity of Ulster, UKProf. Junsoo LeeUniversity of Alabama, USA

Prof. Tae-Hwy Lee
University of California, Riverside, USA
Chinese Academy of Sciences, China
Dr. Xuewen Lu
University of Calgary, Canada
University of Moncton, Canada
Dr. Gengsheng Qin
Georgia State University, USA
Prof. Kalyan Raman
Northwestern University, USA
University of Jordan, Jordan
University of Jordan

Prof. Mohammad Z. RaqabUniversity of Jordan, JordanDr. Jose Antonio Roldán-NofuentesUniversity of Granada, Spain

Prof. Sunil K. SapraCalifornia State University, Los Angeles, USAProf. Siva SivaganesanUniversity 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 TomaAcademy of Economic Studies, RomaniaProf. Vladimir V. UlyanovMoscow State University, Russia

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

Dr. Haiyan WangKansas State University, USAProf. Augustine Chi Mou WongYork University, CanadaDr. Liqing YanUniversity of Florida, USADr. Peng ZengAuburn University, USA

Dr. Peng ZengAuburn University, USADr. Hongmei ZhangUniversity of South Carolina, Columbia, USADr. Jin-Ting ZhangNational 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
Abdelouahab Bibi Darsh Joshi
Huaihou Chen Alexander de Leon
Michael Davis Xinmin Li
Jianjun Gan Nengxiang Ling
Antony Gautier Yu Miao

Serguei Pergamenchtchikov Raghu Nandan Sengupta Abderrahim Taamouti Nian-Sheng Tang



### TABLE OF CONTENTS

Volume 3 Number 5	October 2013
Generalized Estimating Equations for Repeated Measures Logistic Regression in Mosquito Dose-Response	
G. Otieno, G. A. Waititu, D. Salifu.	293
An Investigation of the Effect of the Swamping Phenomenon on Several Block Proced for Multiple Outliers in Univariate Samples	dures
T. W. Woolley	299
A Class of Truncated Binomial Lifetime Distributions	
S. H. Alkarni	305
Effect of Correlation Level on the Use of Auxiliary Variable in Double Sampling for Regression Estimation	
D. A. Agunbiade, P. I. Ogunyinka	312
Some Additional Moment Conditions for a Dynamic Count Panel Data Model with Predetermined Explanatory Variables	
Y. Kitazawa	319
Functional Analysis of Chemometric Data	
A. M. Aguilera, M. Escabias, M. J. Valderrama, M. C. Aguilera-Morillo	334
Aggregating Density Estimators: An Empirical Study	
M. Bourel, B. Ghattas.	344
<b>High Dimensional Dataset Compression Using Principal Components</b>	
M. B. Richman, A. E. Mercer, L. M. Leslie, C. A. Doswell III, C. M. Shafer	356
Characterization of Negative Exponential Distribution through Expectation	
M. Bhatt B	367
Multiple Imputation of Missing Data: A Simulation Study on a Binary Response	
J. Hardt, M. Herke, T. Brian, W. Laubach	370
Forecasting Realized Volatility Using Subsample Averaging	
H V Huang TH Lee	379

The figure on the front cover is from the article published in Open Journal of Statistics, 2013, Vol. 3, No. 5, pp. 344-355 by Mathias Bourel and Badih Ghattas.

Copyright © 2013 SciRes.

### **Open Journal of Statistics (OJS)**

### **Journal Information**

### SUBSCRIPTIONS

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

### **Subscription rates:**

Print: \$59 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: <a href="mailto:sub@scirp.org">sub@scirp.org</a>

### **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@2013 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 Model 11 The Statistics of St

# **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. 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. 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.

Email: ojs@scirp.org

### Website and E-Mail

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