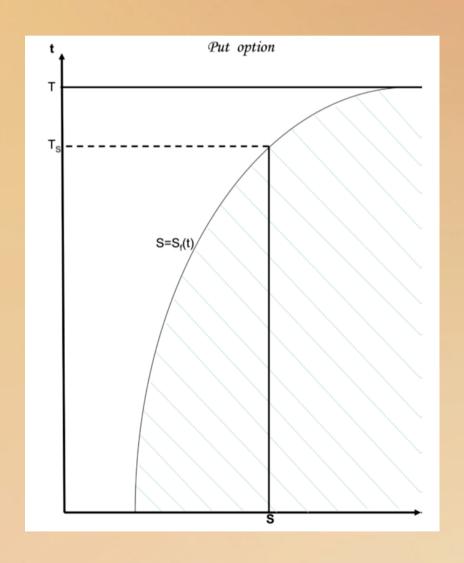




# Open Journal of Statistics





# **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. Junsoo Lee** University of Alabama, USA

Prof. Tae-Hwy LeeUniversity of California, Riverside, USADr. Qizhai LiChinese Academy of Sciences, China

Dr. Xuewen LuUniversity of Calgary, CanadaProf. Claudio MoranaUniversity of Milano-Bicocca, ItalyProf. Thu Pham-GiaUniversity of Moncton, CanadaProf. Gengsheng QinGeorgia State University, USAProf. Kalyan RamanNorthwestern University, USAProf. Mahammad Z. DagahUniversity of Landan, Landan

Prof. Mohammad Z. Raqab
University of Jordan, Jordan
University of Granada, Spain

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

Prof. Raghu Nandan SenguptaIndian Institute of Technology Kanpur, IndiaProf. Siva SivaganesanUniversity of Cincinnati, USA

Prof. Siva Sivaganesan

University of Cincinnati, USA

Prof. Jianguo Sun

University of Missouri, USA

Prof. Aida TomaAcademy of Economic Studies, RomaniaDr. Florin VaidaUniversity of California, San Diego, USA

Dr. Haiyan WangKansas State University, USAProf. Augustine Chi Mou WongYork University, CanadaDr. Peng ZengAuburn 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 5	Number 6	October 2015
A Simple Chi-	-Square Statistic for Testing Homogeneity of Zero-Inflated	l Distributions
W. D. Johnso	on, J. H. Burton, R. A. Beyl, J. E. Romer	483
Determine th	he Factors of Female Early Age at First Cohabitation: A Cas	se Study of Bangladesh
Md. Y. A. Pa	arh, S. A. Sumy, Md. S. Hossain	494
Bootstrap Co	onfidence Intervals for Proportions of Unequal Sized Group	ps Adjusted for Overdispersion
O. W. Mwar	ngi, A. Islam, O. Luke	502
On a Charact	terization of Zero-Inflated Negative Binomial Distribution	
R. Suresh, G	G. Nanjundan, S. Nagesh, S. Pasha	511
•	ion of Independence Using the Logit Uniform Association I e and Discordance for Two-Way Classifications	Model and Equality of
K. Tahata, N	N. Miyamoto, S. Tomizawa	514
Convenient V	Way of Extend Linear Expenditure System Modeling witho	out Regression
N. N. Song,	Y. Q. Liu	519
Pricing Amer	rican Options Using Transition Probabilities: A Dynamical S	Systems Approach
R. Elizondo,	P. Padilla, M. Bladt	525
Spectral Grac Solutions of I	dient Algorithm Based on the Generalized Fiser-Burmeiste LCPS	er Function for Sparse
C. Gao, Z. S.	. Yu, F. R. Wang	543
A Gendered S	Study of Student Ratings of Instruction	
L. Huebner,	R. C. Magel	552
	ference in Generalized Linear Mixed Models by Joint Mod of Non-Normal Random Effects	elling Mean and
Y. Chen, Y. I	Fei, J. Pan	568
Bayesian Pre	ediction of Future Generalized Order Statistics from a Class	s of Finite Mixture Distributions
A. A. Ahmad	d, A. M. Al-Zaydi	585
A Note on Ap	pproximation of Likelihood Ratio Statistic in Exploratory F	actor Analysis
M Ichikawa	a	600

### Open Journal of Statistics, 2015, 5, 483-644

Published Online October 2015 in SciRes. <a href="http://www.scirp.org/journal/ojs">http://www.scirp.org/journal/ojs</a>



Computational Method for Extracting and Modeling Periodicities in Time Series	
E. González-Rodríguez, H. Villalobos, V. M. Gómez-Muñoz, A. Ramos-Rodríguez	604
Random Subspace Learning Approach to High-Dimensional Outliers Detection	
B. H. Liu, E. Fokoué	618
Robust Differentiable Functionals for the Additive Hazards Model	
E. E. Álvarez, J. Ferrario	631

# **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: \$69 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: <a href="mailto:service@scirp.org">service@scirp.org</a>

#### Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

#### **COPYRIGHT**

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

Copyright © 2015 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  $\ensuremath{\mathbb{Q}}$  2015 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