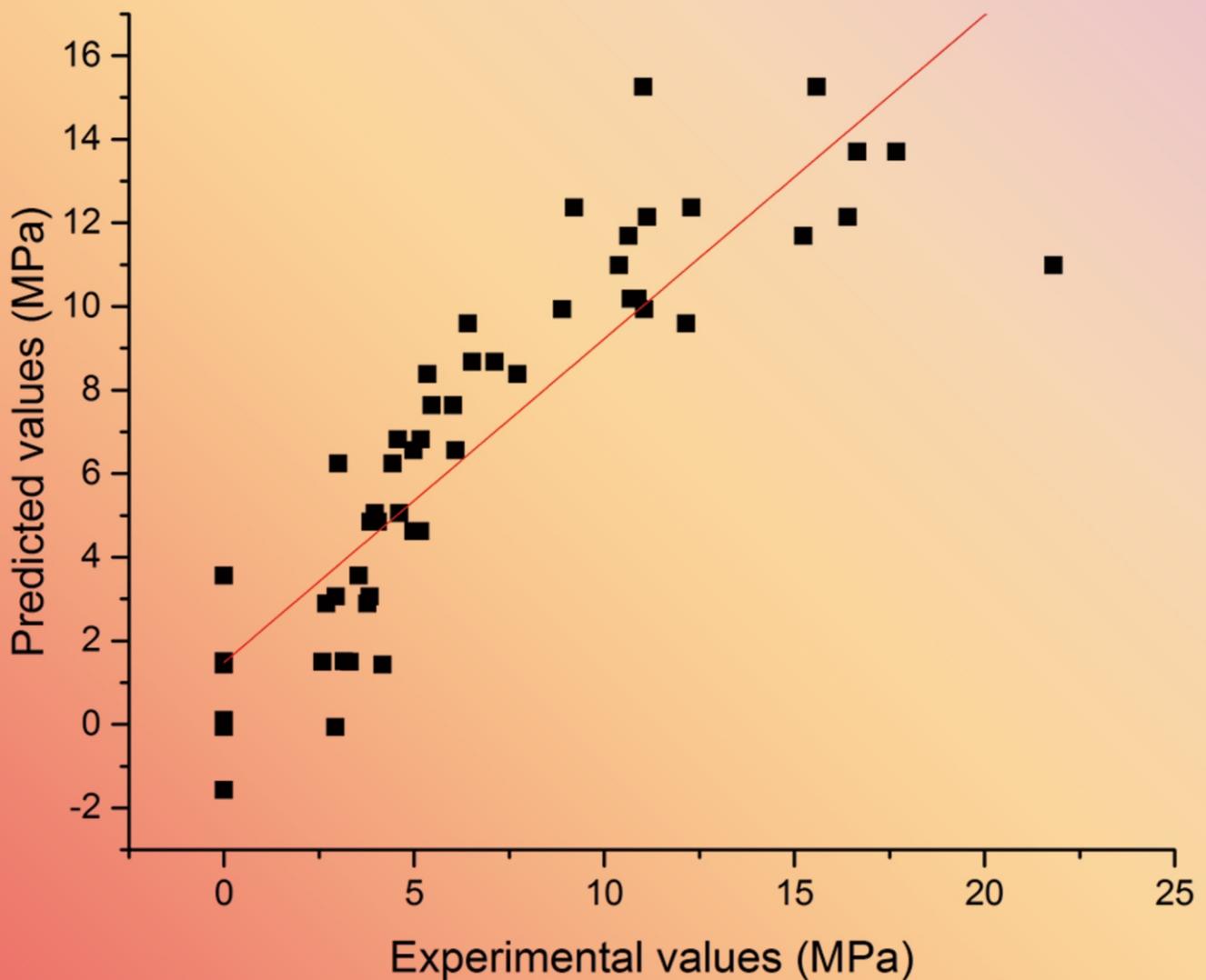


Open Journal of Statistics



ISSN: 2161-718X



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

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. 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. Claudio Morana

University of Milano-Bicocca, Italy

Prof. Thu Pham-Gia

University of Moncton, Canada

Prof. 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. Sunil K. Sapra

California State University, Los Angeles, USA

Prof. Raghu Nandan Sengupta

Indian Institute of Technology Kanpur, India

Prof. Siva Sivaganesan

University of Cincinnati, USA

Prof. Jianguo Sun

University of Missouri, USA

Prof. Aida Toma

Academy of Economic Studies, Romania

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. Peng Zeng

Auburn 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 6 Number 4

August 2016

Development of a Modelling Script of Time Series Suitable for Data Mining

V. Sanz-Fernández, R. Cabrera, R. Muñoz-Lechuga, A. Sánchez-Navas, I. A. Czerwinski.....555

Markov-Switching Time-Varying Copula Modeling of Dependence Structure between Oil and GCC Stock Markets

H. Boubaker, N. Sghaier.....565

Analysis of the Grip Strength Data Using Anti-Diagonal Symmetry Models

K. Iki.....590

Optimization of Expanded Polystyrene Lightweight Aggregate in Pre-Cast Concrete Blocks by a Completely Random Experimental Design (CRED) with Mixture and Process Variables

R. K. Vieira, R. P. de Vasconcelos, D. Marangoni, A. K. Vieira.....594

Quantifying the Microeconomic and Macroeconomic Impact of the Recent Crude Oil Price Fluctuations

P. Xu, U. Adhikari, L. Guo, D. Sathaye, J. H. Wang, D. L. Yi, Y. Z. Zhu.....605

Generalized Ratio-Cum-Product Estimators for Two-Phase Sampling Using Multi-Auxiliary Variables

J. Kung'u, J. Nderitu.....616

Challenges Analyzing RNA-Seq Gene Expression Data

L. López-Kleine, C. González-Prieto.....628

Efficiency of Some Estimators for a Generalized Poisson Autoregressive Process of Order 1

L. G. Doray, A. Luong, E.-H. Najem.....637

A New Procedure to Test for Fractional Integration

W. Rea, C. Price, L. Oxley, M. Reale, J. Brown.....651

Shrinkage Estimation in the Random Parameters Logit Model

T. Zeng, R. C. Hill.....667

CBPS-Based Inference in Nonlinear Regression Models with Missing Data

D. L. Guo, L. G. Xue, H. Q. Chen.....675

A Class of Lindley and Weibull Distributions

S. H. Alkarni.....685

Multivariate Statistical Analysis of Large Datasets: Single Particle Electron Microscopy

M. van Heel, R. V. Portugal, M. Schatz.....701

Open Journal of Statistics (OJS)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Statistics* (Online at Scientific Research Publishing, www.SciRP.org) 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: service@scirp.org

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 © 2016 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 © 2016 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

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific
Research
Publishing**

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org