

DIGITALCOMMONS
—@WAYNESTATE—

**Journal of Modern Applied Statistical
Methods**

Volume 6 | Issue 1

Article 1

5-1-2007

Front Matter

JMASM Editors

Follow this and additional works at: <http://digitalcommons.wayne.edu/jmasm>

Recommended Citation

Editors, JMASM (2007) "Front Matter," *Journal of Modern Applied Statistical Methods*: Vol. 6: Iss. 1, Article 1.
Available at: <http://digitalcommons.wayne.edu/jmasm/vol6/iss1/1>

This Front Matter is brought to you for free and open access by the Open Access Journals at DigitalCommons@WayneState. It has been accepted for inclusion in Journal of Modern Applied Statistical Methods by an authorized administrator of DigitalCommons@WayneState.

Journal Of Modern Applied Statistical Methods

Shlomo S. Sawilowsky

Editor

College of Education
Wayne State University

Harvey Keselman

Associate Editor

Department of Psychology
University of Manitoba

Bruno D. Zumbo

Associate Editor

Measurement, Evaluation, & Research Methodology
University of British Columbia

Vance W. Berger

Assistant Editor

Biometry Research Group
National Cancer Institute

John L. Cuzzocrea

Assistant Editor

Educational Research
University of Akron

Todd C. Headrick

Assistant Editor

Educational Psychology and Special Education
Southern Illinois University-Carbondale

Alan Klockars

Assistant Editor

Educational Psychology
University of Washington

Editorial Board

Subhash Chandra Bagui
Department of Mathematics & Statistics
University of West Florida

J. Jackson Barnette
School of Public Health
University of Alabama at Birmingham

Vincent A. R. Camara
Department of Mathematics
University of South Florida

Ling Chen
Department of Statistics
Florida International University

Christopher W. Chiu
Test Development & Psychometric Rsch
Law School Admission Council, PA

Jai Won Choi
National Center for Health Statistics
Hyattsville, MD

Rahul Dhanda
Forest Pharmaceuticals
New York, NY

John N. Dyer
Dept. of Information System & Logistics
Georgia Southern University

Matthew E. Elam
Dept. of Industrial Engineering
University of Alabama

Mohammed A. El-Saidi
Accounting, Finance, Economics &
Statistics, Ferris State University

Felix Famoye
Department of Mathematics
Central Michigan University

Barbara Foster
Academic Computing Services, UT
Southwestern Medical Center, Dallas

Shiva Gautam
Department of Preventive Medicine
Vanderbilt University

Dominique Haughton
Mathematical Sciences Department
Bentley College

Scott L. Hershberger
Department of Psychology
California State University, Long Beach

Joseph Hilbe
Departments of Statistics/ Sociology
Arizona State University

Sin-Ho Jung
Dept. of Biostatistics & Bioinformatics
Duke University

Jong-Min Kim
Statistics, Division of Science & Math
University of Minnesota

Harry Khamis
Statistical Consulting Center
Wright State University

Kallappa M. Koti
Food and Drug Administration
Rockville, MD

Tomasz J. Kozubowski
Department of Mathematics
University of Nevada

Kwan R. Lee
GlaxoSmithKline Pharmaceuticals
Collegeville, PA

Hee-Jeong Lim
Dept. of Math & Computer Science
Northern Kentucky University

Balagobin Nandram
Department of Mathematical Sciences
Worcester Polytechnic Institute

J. Sunil Rao
Dept. of Epidemiology & Biostatistics
Case Western Reserve University

Karan P. Singh
University of North Texas Health
Science Center, Fort Worth

Jianguo (Tony) Sun
Department of Statistics
University of Missouri, Columbia

Joshua M. Tebbs
Department of Statistics
Kansas State University

Dimitrios D. Thomakos
Department of Economics
Florida International University

Justin Tobias
Department of Economics
University of California-Irvine

Dawn M. VanLeeuwen
Agricultural & Extension Education
New Mexico State University

David Walker
Educational Tech, Rsrch, & Assessment
Northern Illinois University

J. J. Wang
Dept. of Advanced Educational Studies
California State University, Bakersfield

Dongfeng Wu
Dept. of Mathematics & Statistics
Mississippi State University

Chengjie Xiong
Division of Biostatistics
Washington University in St. Louis

Andrei Yakovlev
Biostatistics and Computational Biology
University of Rochester

Heping Zhang
Dept. of Epidemiology & Public Health
Yale University

INTERNATIONAL

Mohammed Ageel
Dept. of Mathematics, & Graduate School
King Khalid University, Saudi Arabia

Mohammad Fraiwan Al-Saleh
Department of Statistics
Yarmouk University, Irbid-Jordan

Keumhee Chough (K.C.) Carriere
Mathematical & Statistical Sciences
University of Alberta, Canada

Michael B. C. Khoo
Mathematical Sciences
Universiti Sains, Malaysia

Debasis Kundu
Department of Mathematics
Indian Institute of Technology, India

Christos Koukouvinos
Department of Mathematics
National Technical University, Greece

Lisa M. Lix
Dept. of Community Health Sciences
University of Manitoba, Canada

Takis Papaioannou
Statistics and Insurance Science
University of Piraeus, Greece

Nasrollah Saebi
Computing, Information Systems & Math
Kingston University, UK

Keming Yu
Department of Statistics
University of Plymouth, UK

Journal Of Modern Applied Statistical Methods

Invited Articles

- 2 – 7 **Meng-Jia Wu,** Effects of Physical Activity on Psychological Change
Betsy Jane Becker, in Advanced Age: A Multivariate Meta-Analysis
Yael Netz
- 8 – 20 **Thomas R. Knapp** Bimodality Revisited
- 21 – 29 **Bruno D. Zumbo,** Ordinal Versions of Coefficients Alpha and Theta for
Anne Gadermann, Likert Rating Scales
Cornelia Zeisser
- 30 – 35 **Rand R. Wilcox** On Flexible Tests of Independence and Homoscedasticity

Regular Articles

- 36 – 52 **Sean W. Mulvenon,** Application of a New Procedure for Power Analysis
M. Austin Betz, and Comparison of the Adjusted Univariate and
Kening Wang, Multivariate Tests in Repeated Measures Designs
Bruno Zumbo
- 53 – 65 **Stephanie Wehry,** Analyses of Unbalanced Groups-Versus-Individual
James Algina Research Designs Using Three Alternative Approximate
Degrees of Freedom Tests: Test Development and Type I
Error Rates
- 66 – 80 **Miguel A. Padilla,** Type I Error Rates of the Kenward-Roger Adjusted
James Algina Degree of Freedom F test for a Split Plot Design with
Missing Values
- 81 – 90 **Gibbs Y. Kanyongo** Reliability and Statistical Power: How Measurement
G. P. Brooks, Fallibility Affects Power and Required Sample Sizes
Lydia K.-Blankson, for Several Parametric and Nonparametric Statistics
Gulsah Gocmen
- 91 – 106 **Gary E. Meek,** Comparison of the t vs. Wilcoxon Signed-Rank Test
Ceyhun Ozgur, for Likert Scale Data and Small Samples
Kenneth Dunning
- 107 – 116 **Bruno Lecoutre** Another Look at Confidence Intervals for the Noncentral
t Distribution
- 117 – 132 **Robert A. Cribbie,** Tests for Treatment Group Equality When Data are
Rand R. Wilcox, Nonnormal and Heteroscedastic
Carmen Bewell,
H. J. Keselman

133 – 140	Jamie A. Gruman, Robert A. Cribbie, Chantal A.-Cribbie	The Effects of Heteroscedasticity on Tests of Equivalence
141 – 152	Vincent Camara	Approximate Bayesian Confidence Intervals for the Mean of an Exponential Distribution
153 – 161	James F. Reed III	Better Binomial Confidence Intervals
162 – 172	David A. Walker	A Comparison Of Eight Shrinkage Formulas Under Extreme Conditions
173 – 186	Carl Lee, Felix Famoye, Olugbenga Olumolade	Beta-Weibull distribution: Some Properties and Applications to Censored Data
187 – 211	Lingji Kong, Carl Lee, J. H. Sepanski	On the Properties of Beta-Gamma Distribution
212 – 218	M. Shakil, B. M. Golam Kibria	On the Product of Maxwell and Rice Random Variables
219 – 227	Stan Lipovetsky	Optimal Lp-Metric for Minimizing Powered Deviations in Regression
228 – 238	Ani Shabri, Abdul Aziz Jemain	LQ Moments For Statistical Analysis Of Extreme Events
239 – 247	Chin-Shang Li, Wanzhu Tu	A Spline-Based Lack-Of-Fit Test for Independent Variable Effect in Poisson Regression
248 – 257	Adriana Pérez	Using the Fractional Imputation Methodology to Evaluate Variance Due to Hot Deck Imputation in Survey Data
258 – 264	Kosei Fukuda	Practical Unit-Root Analysis Using Information Criteria: Simulation Evidence
265 – 278	Senay Yolacan, Aladdin Shamilov	A Fano-Huffman Based Statistical Coding Method
279 – 290	Mahesh Menon, Todd S. Woodward	A Comparison of One-High-Threshold and Two-High-Threshold Multinomial Models of Source Monitoring

- 291 – 303 **Ilker Ercan,** Examining Cronbach Alpha, Theta, Omega
Berna Yazici, Reliability Coefficients According to the Sample Size
Deniz Sigirli,
Bulent Ediz, Ismet Kan
- 304 – 319 **Ann A. O’Connell,** Modeling Longitudinal Ordinal Response Variables
Heather L. Doucette for Educational Data
- 320 – 323 **Ajit Mukherjee,** Risk for Developing Cardiac Problems from Type2
Ajit Mathur, Diabetes via Density Estimation
Rakesh Mittal,
- 324 – 330 **K. Rajendran,** Multinomial Logistic Regression Model for the Inferential
T. Ramamurthy. Risk Age Groups for Infection Caused by *Vibrio Cholerae*
Dipika Sur in Kolkata, India

Early Scholars

- 331 – 335 **Tian Tian,** A Comparison of Two Rank Tests for Repeated Measures
Rand R. Wilcox Designs

Algorithms and Code

- 336 – 340 **Paul Nakonezny,** JMASM26: Hettmansperger and McKean Linear Model
Robert D. Shull Aligned Rank Test for the Single Covariate and One-Way
ANCOVA Case (SAS)
- 341 – 349 **Yanyan Sheng,** JMASM27: An Algorithm for Implementing Gibbs
Todd C. Headrick Sampling for 2PNO IRT Models (Fortran)

Translations, Ephemerals, & Biographies

- 350 – 354 **Shlomo Sawilowsky** Mathematics in Volume I of *Scripta Universitatis*

JMASM is an independent print and electronic journal (<http://tbf.coe.wayne.edu/jmasm>), publishing (1) new statistical tests or procedures, or the comparison of existing statistical tests or procedures, using computer-intensive Monte Carlo, bootstrap, jackknife, or resampling methods, (2) the study of nonparametric, robust, permutation, exact, and approximate randomization methods, and (3) applications of computer programming, preferably in Fortran (all other programming environments are welcome), related to statistical algorithms, pseudo-random number generators, simulation techniques, and self-contained executable code to carry out new or interesting statistical methods.

Editorial Assistant: **John Cuzzocrea**

Production Staff: **Christina Gase**

Internet Sponsor: **Paula C. Wood**, Dean, College of Education, Wayne State University

Cushing-Malloy, Inc.

(888) 295-7244 toll-free (Phone)

Sales & Information:

Internet: www.cushing-malloy.com

(734) 663-5731 (Fax)

skehoe@cushing-malloy.com