

Journal of Modern Applied Statistical Methods

Volume 6 | Issue 1 Article 35

5-1-2007

End Matter

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Editors, JMASM (2007) "End Matter," Journal of Modern Applied Statistical Methods: Vol. 6: Iss. 1 , Article 35. DOI: 10.22237/jmasm/1177994040

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Two Years in the Making...

Intel® Visual Fortran 8.0

The next generation of Visual Fortran is here! Intel Visual Fortran 8.0 was developed jointly by Intel and the former DEC/Compaq Fortran engineering team.



Visual Fortran Timeline

1997 DEC releases
Digital Visual Fortran 5.0

1998 Compaq acquires DEC and releases DVF 6.0

1999 Compaq ships CVF 6.1

2001 Compaq ships CVF 6.6

2001 Intel acquires CVF engineering team

2003 Intel releases
Intel Visual Fortran 8.0

Intel Visual Fortran 8.0

- CVF front-end +
 Intel back-end
- Better performance
- OpenMP Support
- Real*16

Performance

Outstanding performance on Intel architecture including Intel® Pentium® 4, Intel® Xeon™ and Intel Itanium® 2 processors, as well as support for Hyper-Threading Technology.

Compatibility

- Plugs into Microsoft Visual Studio* .NET
- Microsoft PowerStation4 language and library support
- Strong compatibility with Compaq* Visual Fortran

Support

1 year of free product upgrades and Intel Premier Support

"The Intel Fortran Compiler 7.0 was first-rate, and Intel Visual Fortran 8.0 is even better. Intel has made a giant leap forward in combining the best features of Compaq Visual Fortran and Intel Fortran. This compiler... continues to be a 'must-have' tool for any Twenty-First Century Fortran migration or software development project."

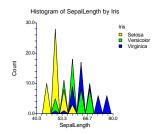
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Professor Computational Finance
University of California, San Diego

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Announcing NCSS 2004 Seventeen New Procedures

NCSS 2004 is a new edition of our popular statistical NCSS package that adds seventeen new procedures.

New Procedures

Two Independent Proportions Two Correlated Proportions One-Sample Binary Diagnostic Tests Two-Sample Binary Diagnostic Tests Paired-Sample Binary Diagnostic Tests Cluster Sample Binary Diagnostic Tests Meta-Analysis of Proportions Meta-Analysis of Correlated Proportions Meta-Analysis of Means Meta-Analysis of Hazard Ratios Curve Fitting **Tolerance Intervals** Comparative Histograms **ROC Curves** Elapsed Time Calculator T-Test from Means and SD's Hybrid Appraisal (Feedback) Model

Documentation

The printed, 330-page manual, called *NCSS User's Guide V*, is available for \$29.95. An electronic (pdf) version of the manual is included on the distribution CD and in the Help system.

Two Proportions

Several new exact and asymptotic techniques were added for hypothesis testing (null, noninferiority, equivalence) and calculating confidence intervals for the difference, ratio, and odds ratio. Designs may be independent or paired. Methods include: Farrington & Manning, Gart & Nam, Conditional & Unconditional Exact, Wilson's Score, Miettinen & Nurminen, and Chen.

Meta-Analysis

Procedures for combining studies measuring paired proportions, means, independent proportions, and hazard ratios are available. Plots include the forest plot, radial plot, and L'Abbe plot. Both fixed and random effects models are available for combining the results.

Curve Fitting

This procedure combines several of our curve fitting programs into one module. It adds many new models such as Michaelis-Menten. It analyzes curves from several groups. It compares fitted models across groups using computer-intensive randomization tests. It computes bootstrap confidence intervals.

Tolerance Intervals

This procedure calculates one and two sided tolerance intervals using both distribution-free (nonparametric) methods and normal distribution (parametric) methods. Tolerance intervals are bounds between which a given percentage of a population falls.

Comparative Histogram

This procedure displays a comparative histogram created by interspersing or overlaying the individual histograms of two or more groups or variables. This allows the direct comparison of the distributions of several groups.

Random Number Generator

Matsumoto's Mersenne Twister random number generator (cycle length > 10**6000) has been implemented.

Binary Diagnostic Tests

Four new procedures provide the specialized analysis necessary for diagnostic testing with binary outcome data. These provide appropriate specificity and sensitivity output. Four experimental designs can be analyzed including independent or paired groups, comparison with a gold standard, and cluster randomized.

ROC Curves

This procedure generates both binormal and empirical (nonparametric) ROC curves. It computes comparative measures such as the whole, and partial, area under the ROC curve. It provides statistical tests comparing the AUC's and partial AUC's for paired and independent sample designs.

Hybrid (Feedback) Model

This new edition of our hybrid appraisal model fitting program includes several new optimization methods for calibrating parameters including a new genetic algorithm. Model specification is easier. Binary variables are automatically generated from class variables.

Statistical Innovations Products

Through a *special arrangement* with Statistical Innovations (S.I.), NCSS customers will receive \$100 discounts on:

Latent GOLDO - latent class modeling
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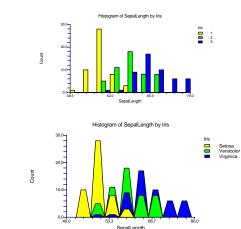
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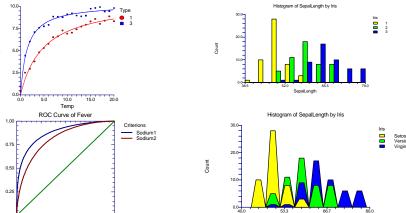
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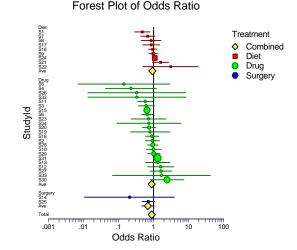


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Statistical and Graphics Procedures Available in NCSS 2004

Analysis of Variance / T-Tests

0.50 1-Specificity

Y = Michaelis-Menter

Analysis of Covariance Analysis of Variance **Barlett Variance Test** Crossover Design Analysis Factorial Design Analysis Friedman Test Geiser-Greenhouse Correction General Linear Models Mann-Whitney Test MANOVA Multiple Comparison Tests One-Way ANOVA Paired T-Tests Power Calculations Repeated Measures ANOVA T-Tests - One or Two Groups T-Tests - From Means & SD's Wilcoxon Test

Time Series Analysis

ARIMA / Box - Jenkins Decomposition **Exponential Smoothing** Harmonic Analysis Holt - Winters Seasonal Analysis Spectral Analysis Trend Analysis

Plots / Graphs

Bar Charts Box Plots Contour Plot Dot Plots **Error Bar Charts** Histograms Histograms: Combined* Percentile Plots Pie Charts Probability Plots **ROC Curves**' Scatter Plots Scatter Plot Matrix Surface Plots Violin Plots

Experimental Designs

Balanced Inc. Block Box-Behnken Central Composite **D-Optimal Designs** Fractional Factorial Latin Squares Placket-Burman Response Surface Screening Taguchi

Regression / Correlation

All-Possible Search Canonical Correlation Correlation Matrices Cox Regression Kendall's Tau Correlation Linear Regression Logistic Regression Multiple Regression Nonlinear Regression PC Regression Poisson Regression Response-Surface Ridge Regression Robust Regression Stepwise Regression Spearman Correlation Variable Selection

Quality Control

Xbar-R Chart C, P, NP, U Charts Capability Analysis Cusum, EWMA Chart Individuals Chart Moving Average Chart Pareto Chart R & R Studies

Survival / Reliability

Accelerated Life Tests Cox Regression Cumulative Incidence **Exponential Fitting** Extreme-Value Fitting Hazard Rates Kaplan-Meier Curves Life-Table Analysis Lognormal Fitting Log-Rank Tests Probit Analysis Proportional-Hazards Reliability Analysis Survival Distributions Time Calculator* Weibull Analysis

Multivariate Analysis

Cluster Analysis Correspondence Analysis Discriminant Analysis Factor Analysis Hotelling's T-Squared Item Analysis Item Response Analysis Loglinear Models MĂNOVA Multi-Way Tables Multidimensional Scaling **Principal Components**

Curve Fitting

Bootstrap C.I.'s' Built-In Models Group Fitting and Testing* Model Searching Nonlinear Regression Randomization Tests* Ratio of Polynomials User-Specified Models

Miscellaneous Area Under Curve

Bootstrapping Chi-Square Test Confidence Limits Cross Tabulation Data Screening Fisher's Exact Test Frequency Distributions Mantel-Haenszel Test Nonparametric Tests Normality Tests Probability Calculator Proportion Tests Randomization Tests Tables of Means, Etc. Trimmed Means Univariate Statistics

Meta-Analysis*

Independent Proportions* Correlated Proportions* Hazard Ratios* Means*

Binary Diagnostic Tests*

One Sample* Two Samples* Paired Samples' Clustered Samples*

Proportions

Tolerance Intervals* Two Independent* Two Correlated* Exact Tests* Exact Confidence Intervals* Farrington-Manning* Fisher Exact Test Gart-Nam* Method McNemar Test Miettinen-Nurminen* Wilson's Score* Method Equivalence Tests* Noninferiority Tests*

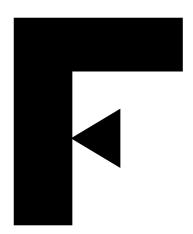
Mass Appraisal

Comparables Reports Hybrid (Feedback) Model* Nonlinear Regression Sales Ratios

"Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away."

- Antoine de Saint Exupery

F is a carefully crafted subset of the most recent version of Fortran, the world's most powerful numeric language.



Using F has some very significant advantages:

- Programs written in F will compile with any Fortran compiler
- F is easier to use than other popular programming languages
- *F compilers are free* and available for Linux, Windows, and Solaris
- Several books on F are available
- F programs may be linked with C, Fortran 95, or older Fortran 77 programs

F retains the modern features of Fortran—modules and data abstraction, for example—but discards older error-prone facilities of Fortran.

It is a safe and portable programming language.

F encourages Module-Oriented Programming.

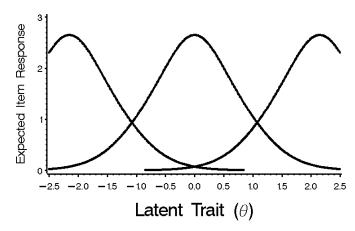
It is ideal for teaching a programming language in science, engineering, mathematics, and finance.

It is ideal for new numerically intensive programs.

The Fortran Company
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http://www.fortran.com/info@fortran.com/

Introducing GGUM2004

Item Response Theory Models for Unfolding



The new GGUM2004 software system estimates parameters in a family of item response theory (IRT) models that unfold polytomous responses to questionnaire items. These models assume that persons and items can be jointly represented as locations on a latent unidimensional continuum. A single-peaked, nonmonotonic response function is the key feature that distinguishes unfolding IRT models from traditional, "cumulative" IRT models. This response function suggests

that a higher item score is more likely to the extent that an individual is located close to a given item on the underlying continuum. Such single-peaked functions are appropriate in many situations including attitude measurement with Likert or Thurstone scales, and preference measurement with stimulus rating scales. This family of models can also be used to determine the locations of respondents in particular developmental processes that occur in stages.

The GGUM2004 system estimates item parameters using marginal maximum likelihood, and person parameters are estimated using an expected *a posteriori* (EAP) technique. The program allows for up to 100 items with 2-10 response categories per item, and up to 2000 respondents. GGUM2004 is compatible with computers running updated versions of Windows 98 SE, Windows 2000, and Windows XP. The software is accompanied by a detailed technical reference manual and a new Windows user's guide. *GGUM2004 is free* and can be downloaded from:

http://www.education.umd.edu/EDMS/tutorials

GGUM2004 improves upon its predecessor (GGUM2000) in several important ways:

- It has a user-friendly graphical interface for running commands and displaying output.
- It offers real-time graphics that characterize the performance of a given model.
- It provides new item fit indices with desirable statistical characteristics.
- It allows for missing item responses assuming the data are missing at random.
- It allows the number of response categories to vary across items.
- It estimates model parameters more quickly.

Start putting the power of unfolding IRT models to work in your attitude and preference measurement endeavors. Download your free copy of GGUM2004 today!

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The Division of Evaluation, Measurement, and Statistics of the American Psychological Association draws together individuals whose professional activities and/or interests include assessment, evaluation, measurement, and statistics. The disciplinary affiliation of division membership reaches well beyond psychology, includes both members and non-members of APA, and welcomes graduate students.

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- subscription to *Psychological Methods* or *Psychological Assessment* (student members, who pay a reduced fee, do not automatically receive a journal, but may do so for an additional \$18)
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For more information, contact Joan Garfield, President of the SIG-ES, at jbg@umn.edu.



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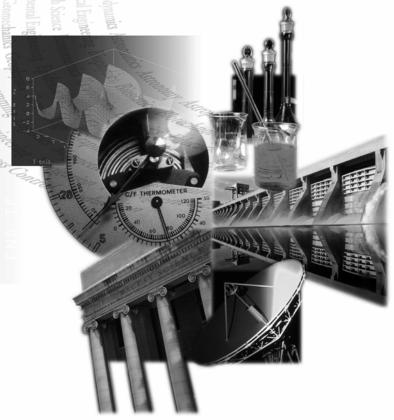
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- 3. There should be no material identifying authorship except on the title page. A statement should be included in the body of the e-mail that, where applicable, indicating proper human subjects protocols were followed, including informed consent. A statement should be included in the body of the e-mail indicating the manuscript is not under consideration at another journal.
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