

Technometrics



The 2015 Technometrics Prizes

To cite this article: (2016) The 2015 Technometrics Prizes, Technometrics, 58:4, 532-534, DOI: 10.1080/00401706.2016.1234294

To link to this article: <u>http://dx.doi.org/10.1080/00401706.2016.1234294</u>

	n.	_	L
- P	Ť		
t		H	

Technometrics

Published online: 11 Oct 2016.

C	
Т	4
	_

Submit your article to this journal 🗹

Article views: 76



💽 View related articles 🗹



🌔 View Crossmark data 🗹

Full Terms & Conditions of access and use can be found at http://www.tandfonline.com/action/journalInformation?journalCode=utch20

The 2015 Technometrics Prizes

The 2015 Jack Youden Prize for Best Expository Paper was awarded to *Andrew Hoegh, Scotland Leman, Parang Saraf and Naren Ramakrishnan* for their article **"Bayesian Model Fusion for Forecasting Civil Unrest."** The 2015 Frank Wilcoxon Prize for Best Practical Application Paper was awarded to *Yili Hong, Yuanyuan Duan, William Q. Meeker, Deborah L. Stanley and Xiaohong Gu* for their article **"Statistical Methods for Degradation Data with Dynamic Covariates Information and an Application to Outdoor Weathering Data."** Each prize consists of a certificate and a cash award.

PAST WINNERS OF TECHNOMETRICS PRIZES (1969-2015)

Jack Youden Prize for Best Expository Paper

- 1969 A. R. Eckler—A Survey of Coverage Problems Associated With Point and Area Targets; Frank E. Grubbs—Procedures for Detecting Outlying Observations in Samples
- 1970 *G. J. Hahn and W. Nelson*—A Problem in the Statistical Comparison of Measuring Devices; *M. J. Box*—Some Experiences With a Nonlinear Experimental Design Criterion
- N. R. Draper and I. Guttman—Bayesian Estimation of the Binomial Parameter N;
 H. W. Hager, L. J. Bain, and C. E. Antle—Reliability Estimation for the Generalized Gamma Distribution and Robustness of the Weibull Model
- 1972 J. Youden—Enduring Values;
 J. Youden—Randomization and Experimentation;
 P. T. Pop and J. T. Webster—The Use of an F-Statistic in Stepwise Regression Procedures;
 S. S. Shapiro and M. B. Wilk—An Analysis of Variance Test for the Exponential Distribution (Complete Samples)
- 1973 J. A. Cornell—Experiments With Mixtures: A Review
- 1974 D. W. Marquardt and R. D. Snee—Test Statistics for Mixture Models; J. T. Webster, R. F. Gunst, and R. L. Mason—Latent Root Regression Analysis; Svante Wold—Spline Functions in Data Analysis
- 1975 Donald M. Olsson and Lloyd S. Nelson—The Nelder–Mead Simplex Procedures for Function Minimalization; Douglas Zahn—Modifications of and Revised Critical Values for the Half-Normal Plot; Douglas Zahn—An Empirical Study of the Half-Normal Plot
- 1976 R. R. Hocking, F. M. Speed, and M. J. Lynn-A Class of Biased Estimators in Linear Regression
- 1977 R. D. Snee—Validation of Regression Models: Methods and Examples
- 1978 *Kenneth N. Berk*—Comparing Subset Regression Procedures; *Jerald F. Lawless*—Confidence Interval Estimation for the Weibull and Extreme Value Distributions
- 1979 Norman R. Draper and R. Craig Van Nostrand-Ridge Regression and James-Stein Estimation: Review and Comments
- 1980 Edward J. Dudewicz—Ranking (Ordering) and Selection: An Overview of How to Select the Best;
 - D. M. Titterington—Aspects of Optimal Design on Dynamic Systems
- 1981 *W. J. Conover, Mark E. Johnson, and Myrle M. Johnson*—A Comparative Study of Tests for Homogeneity of Variances With Applications to the Outer Continental Shelf Bidding Data
- 1982 D. M. Rocke, W. G. Downs, and A. J. Rocke—Are Robust Estimators Really Necessary?
- 1983 R. J. Beckman and R. D. Cook—Outlier...s
- 1984 David M. Steinberg and William G. Hunter-Experimental Design: Review and Comment
- 1985 Robert L. Mason and Richard F. Gunst—Outlier-Induced Collinearities; Ajit C. Tamhane and Richard S. H. Mah—Data Reconciliation and Gross Error Detection in Chemical Process Networks
- 1986 Corwin L. Atwood—The Binomial Failure Rate Common Cause Model
- 1987 Richard A. Becker and William S. Cleveland—Brushing Scatterplots
- 1988 George Box—Signal-to-Noise Ratios, Performance Criteria, and Transformations
- 1989 R. Dennis Cook and Sanford Weisberg—Regression Diagnostics With Dynamic Graphics
- 1990 James M. Lucas and Michael S. Saccucci—Exponentially Weighted Moving Average Control Schemes: Properties and Enhancements
- 1991 Leo Breiman—The II Method for Estimating Multivariate Functions From Noisy Data
- 1992 George Box and Tim Kramer—Statistical Process Monitoring and Feedback Adjustments—A Discussion
- 1993 R. Dennis Cook—Exploring Partial Residue Plots

- 1994 Carol A. Gotway-The Use of Conditional Simulation in Nuclear-Waste-Site Performance Assessment
- 1995 Michael Laviolette, John W. Seaman, Jr., J. Douglas Barret, and William H. Woodall—A Probabilistic and Statistical View of Fuzzy Methods
- 1996 Bryan D. Olin and William Q. Meeker-Applications of Statistical Methods to Nondestructive Evaluation
- 1997 *Bo Bergman and Anders Hynen*—Dispersion Effects From Unreplicated Designs in the 2kp Series; *Don X. Sun, C. F. Jeff Wu, and Youyi Chen*—Optimal Blocking Schemes for 2n and 2np Designs
- 1998 William Q. Meeker, Luis A. Escobar, and C. Joseph Lu-Accelerated Degradation Tests: Modeling and Analysis
- 1999 Francis G. Pascual and William Q. Meeker-Estimating Fatigue Curves With the Random Fatigue-Limit Model
- 2000 Max Morris—A Class of Three-Level Experimental Designs for Response Surface Modeling
- 2001 William A. Brenneman and Vijayan N. Nair—Methods for Identifying Dispersion Effects in Unreplicated Factorial Experiments: A Critical Analysis and Proposed Strategies
- 2002 *Huaiqing Wu and William Q. Meeker*—Early Detection of Reliability Problems Using Information From Warranty Databases
- 2003 W. H. Woodall, R. Koudelik, K.-L. Tsui, S. B. Kim, Z. G. Stoumbos, and C. P. Carvounis—A Review and Analysis of the Mahalanobis–Taguchi System
- 2004 *V. Roshan Joseph and C. F. Jeff Wu*—Failure Amplification Method: An Information Maximization Approach to Categorical Response Optimization
- 2005 Daniel Pena—A New Statistic for Influence in Linear Regression
- 2006 *Crystal Linkletter, Derek Bingham, Nicholas Hengartner, David Higdon, and Kenny Q. Ye*—Variable Selection for Gaussian Process Models in Computer Experiments
- 2007 Maria J. Bayarri, James O. Berger, Rui Paulo, Jerry Sacks, John A. Cafeo, James Cavendish, Chin-Hsu Lin, and Jian Tu—A Framework for Validation of Computer Models
- 2008 Leland Wilkinson—The Future of Statistical Computing
- 2009 Ying Shi, Luis A. Escobar, and William Q. Meeker-Accelerated Destructive Degradation Test Planning
- 2010 Adrian E. Raftery, Mirolsav Karny, and Pavel Ettler—Online Prediction Under Model Uncertainty via Dynamic Model Averaging: Application to a Cold Rolling Mill
- 2011 Bradley Jones and Christopher J. Nachtsheim—Efficient Designs With Minimal Aliasing
- 2012 Derek Bingham and Vijayan N. Nair-Noise Variable Settings in Robust Design Experiments
- 2013 Mark C. Albrecht, Christopher J. Nachtsheim, Thomas A. Albrecht, and R. Dennis Cook—Experimental Design for Engineering Dimensional Analysis
- 2014 Danel Draguljic, David C. Woods, Angela M. Dean, Susan M. Lewis, and Anna-Jane E. Vine—Screening Strategies in the Presence of Interactions
- 2015 Andrew Hoegh, Scotland Leman, Parang Saraf and Naren Ramakrishnan—Bayesian Model Fusion for Forecasting Civil Unrest

Frank Wilcoxon Prize for Best Practical Application Paper

- 1969 *Frank E. Grubbs*—Procedures for Detecting Outlying Observations in Samples; *W. L. Nicholson and K. R. Merckx*—Unfolding Particle Size Distribution
- 1970 *C. H. Goldsmith and D. W. Gaylor*—Three Stage Nested Designs for Estimating Variance Components; *L. R. LaMotte and R. R. Hocking*—Computational Efficiency in the Selection of Regression Variables
- 1971 J. Mandel—A New Analysis of Variance Model for Non-Additive Data; W. H. Lawton and E. A. Sylvestre—Self Modeling Curve Regression
- 1972 G. L. Tietjen and R. H. Moore—An Extension of Some Grubbs-Type Statistics for the Detection of Several Outliers;
 W. Nelson—Theory and Applications of Hazard Plotting for Censored Failure Data;
 R. D. Snee—On the Analysis of Response Curve Data
- 1973 *G. E. P. Box, W. H. Hunter, J. F. MacGregor, and J. Erjavac*—Some Problems Associated With the Analysis of Response Curve Data
- 1974 A. E. Beaton and J. W. Tukey—The Fitting of Power Series, Meaning Polynomials, Illustrated on Band Spectroscopic Data;

P. I. Feder—Graphical Techniques in Statistical Data Analysis—Tools for Extracting Information From Data; *E. A. Sylvestre, W. H. Lawton, and M. S. Maggio*—Curve Resolution Using a Postulated Chemical Reaction

- 1975 *W. S. Cleveland and Beat Kleiner*—A Graphical Technique for Enhancing Scatter Plots With Moving Statistics; *Ronald D. Snee*—Experimental Designs for Quadratic Models in Constrained Mixture Spaces
- 1976 Brian L. Joiner and Cathy Campbell—Designing Experiments When Run Order Is Important; William S. Cleveland and Roberta Guarino—Some Robust Statistical Procedures and Their Application to Air Pollution Data
- 1977 Brian L. Joiner-Evaluation of Cryogenic FlowMeters: An Example in Non-Standard Experimental Design and Analysis
- 1978 *Cuthbert Daniel*—Patterns in Residuals in the Two-Way Layout

TECHNOMETRICS PRIZES

- 1979 Josef Schmee and Gerald J. Hahn—A Simple Method for Regression Analysis With Censored Data
- 1980 Thomas J. Lorenzen—Determining Statistical Characteristics of a Vehicle Emissions Audit Procedure
- 1981 *Russell V. Lenth*—On Finding the Source of a Signal; *Ronald D. Snee*—Developing Blending Models for Gasoline and Other Mixtures
- 1982 R. L. Berger—Multiparameter Hypothesis Testing and Acceptance Sampling
- 1983 R. D. Cook and P. C. Wang—Transformations and Influential Cases in Regression
- 1984 J. Brian Gray and Robert F. Ling-K-Clustering as a Detection Tool for Influential Subsets in Regression
- 1985 R. J. Carroll and David Ruppert—Transformations in Regression: A Robust Analysis
- 1986 Vijayan N. Nair-Testing in Industrial Experiments With Ordered Categorical Data
- 1987 William Q. Meeker, Jr.—Limited Failure Population Life Tests: Application in Integrated Circuit Reliability
- 1988 *G. J. Hahn and T. E. Raghunathan*—Combining Information From Various Sources: A Prediction Problem and Other Industrial Applications
- 1989 *Richard D. De Veaux and Michael J. Steele*—ACE Guided-Transformation Method for Estimation of the Coefficient of Soil-Water Diffusivity
- 1990 M. Hamada and C. F. Jeff Wu-A Critical Look at Accumulation Analysis and Related Methods
- 1991 Christopher Morrell and Richard A. Johnson-Random Truncation and Neutrinos
- 1992 *Sybil L. Crawford, Morris H. DeGroot, Joseph B. Kadane, and Mitchell J. Small*—Modeling Lake-Chemistry Distributions: Approximate Bayesian Methods for Estimating a Finite-Mixture Model
- 1993 Richard F. Gunst and Nelson A. Kelly-Captive-Air Irradiation Experiments on Ozone Formation in Southern California
- 1994 *Karen Kafadar*—An Application of Nonlinear Regression in Research and Development: A Case Study From the Electronics Industry
- 1995 William Q. Meeker and Michael J. LaValle—An Accelerated Life Test Based on Reliability Kinetics
- 1996 *Harry F. Martz, Paul H. Kvam, and Lee R. Abramson*—Empirical Bayes Estimation of the Reliability of Nuclear-Power-Plant Emergency Diesel Generators
- 1997 Søren Bisgaard and David M. Steinberg—The Design and Analysis of 2kp Prototype Experiments; Peter S. Wludyka and Peter R. Nelson—An Analysis-of-Means-Type Test for Variances From Normal Populations
- 1998 Siddhartha R. Dala and Colin L. Mallows—Factor-Covering Designs for Testing Software; X. Joan Hu, Jerald F. Lawless, and Kazuyuki Suzuki—Nonparametric Estimation of a Lifetime Distribution When Censoring Times Are Missing
- 1999 Francis G. Pascual and William Q. Meeker—Estimating Fatigue Curves With the Random Fatigue-Limit Model
- 2000 *Chuanhai Liu and Don X. Sun*—Analysis of Interval-Censored Data From Fractionated Experiments Using Covariance Adjustment
- 2001 Scott D. Grimshaw, Bruce J. Collings, Wayne A. Larsen, and Carolyn R. Hurt—Eliciting Factor Importance in a Designed Experiment
- 2002 Steven Golowich, James Landwehr, and Scott Vander Wiel—Interplay Between Physics and Statistics for Modeling Optical Fiber Bandwidth
- 2003 Daniel R. Jeske and Ashwin Sampath-Estimation of Clock Offset Using Bootstrap Bias-Correction Techniques
- 2004 Stefan H. Steiner and R. Jock MacKay—Scale Counting
- 2005 German Molina, M. J. Bayarri, and James O. Berger-Statistical Inverse Analysis for a Network Microsimulator
- 2006 Dale N. Anderson, David C. Stromswold, Sharon C. Wunschel, Anthony J. Peurrung, and Randy R. Hansen—Detection and Location of Gamma-Ray Sources With a Modulating Coded Mask
- 2007 *Todd Graves, Michael Hamada, Jane Booker, Michele Decroix, Kathy Chilcoat, and Clint Bowyer*—Estimating a Proportion Using Strati.ed Data From Both Convenience and Random Samples
- 2008 *Xuemei Shan and Daniel W. Apley*—Blind Identification of Manufacturing Variation Patterns by Combining Source Separation Criteria
- 2009 Max D. Morris, Brad Dilts, Stuart J. Birrell, and Philip M. Nixon—Composite Response Surface Designs for Factors With Jointly Symmetric Effects
- 2010 *Richard A. Becker, Chris Volinsky, and Allan R. Wilks*—Fraud Detection in Telecommunications: A Historical Perspective and a Look Forward.
- 2011 Chae Young Lim and Sarat C. Dass—Assessing Fingerprint Individuality Using EPIC: A Case Study in the Analysis of Spatially Dependent Marked Processes
- 2012 Amy J. Braverman, Eric J. Fetzer, Brian H. Kahn, Evan M. Manning, Robert B. Oliphant and Joao P. Teixeira—Massive Dataset Analysis for NASA's Atmospheric Infrared Sounder
- 2013 *Matthew T. Pratola, Stephan R. Sain, Derek Bingham, Michael Wiltberger, and E. Joshua Rigler*—Fast Sequential Computer Model Calibration of Large Nonstationary Spatial-Temporal Processes
- 2014 *Hai Nguyen, Noel Cressie, Matthias Katzfuss, and Amy Braverman*—Spatio-Temporal Data Fusion for Very Large Remote Sensing Datasets
- 2015 *Yili Hong, Yuanyuan Duan, William Q. Meeker, Deborah L. Stanley and Xiaohong Gu*—Statistical Methods for Degradation Data With Dynamic Covariates Information and an Application to Outdoor Weathering Data