

THE THOMAS L. SAATY AND JACOB WOLFOWITZ PRIZES 1982 – 2009

The Thomas L. Saaty Prize for Applied Advances in the Mathematical Sciences, and The Jacob Wolfowitz Prize for Theoretical Advances in the Mathematical and Management Sciences, were established to recognize and encourage high quality work in these fields. The Prizes are awarded annually.

The Prizes consist of a monetary award and suitably engraved certificate, and are awarded yearly to the author(s) of the respective best Applied/Theoretical Advances paper appearing in the previous year. (The monetary component varies yearly, depending on contributions received by The Thomas L. Saaty Prize Fund and the Jacob Wolfowitz Prize Fund. Contributions may be sent to the Funds.)

Past Prize-winning articles and their authors are:

	<i>Thomas L. Saaty Prize</i>	<i>Jacob Wolfowitz Prize</i>
1982	<i>William R. Fiarweather</i> "A Distribution-Free Comparison of Multiple Tumor Incidence in the Presence of Unrelated Censoring."	<i>Norman L. Johnson & Samuel Kotz</i> "Dependent Revelations: Time-to-Failure Under Dependence"
1983	<i>Umed Singh and K.P. Singh</i> "Improved Models for Fertilizer Nutrient Experiments"	<i>Michael R. Chernick</i> "The Influence Function and Its Application to Data Validation"
1984	<i>Rand R. Wilcox</i> "Measuring Mental Abilities with Latent State Models"	<i>Edward J. Dudewicz & S.R. Dada</i> "Multiple-Comparisons With a Control When Variances Are Unknown and Unequal"
1985	<i>Mark E. Johnson, Chiang Wang, & John S. Ramberg</i> "Generation of Continuous Multivariate Distributions for Statistical Applications"	<i>James R. Wilson</i> "Variance Reduction Techniques for Digital Simulation"
1986	<i>T. P. Hutchinson</i> "Presenting One Probability Distribution as a Function of Another-Some Applications"	<i>Eve Bofinger</i> "On the Non-Existence of Consistent Estimators for P(CS)"

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Jacob Wolfowitz Prize

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|------|--|---|
| 1987 | <p><i>Howard P. Edwards</i>
"The Ranking and Selection Package
RANKSEL"</p> | <p><i>Khursheed Alam, Amitava Mitra,
M. Haseeb Rizvi, & K.M.Lal
Saxena</i>
"Selection of the Most Diverse
Multinomial Population"</p> |
| 1988 | <p><i>Samprit Chatterjee & Sangit Chatterjee</i>
"On Combining Expert Opinions"</p> | <p><i>Hiroto Hyakutake & Minoru
Siotani</i>
"The Multivariate Heteroscedastic
Method: Distributions of Statistics
and an Application"</p> |
| 1989 | <p><i>Ihor O. Bohachevsky, Mark E. Johnson,
& Myron L. Stein</i>
"Optimal Deployment of Missile
Interceptors"</p> | <p><i>Craig A. Tovey</i>
"Simulated Simulated Annealing"</p> |
| 1990 | <p><i>J. A. Nedler</i>
"A Statistical Expert System: Some
Experiences in Constructing a knowledge-
Based front-End for GLIM"
and
<i>Edward J. Dudewicz, George C. Levy,
James Lienhart, & Felix Wehrli</i>
"Statistical Analysis of Magnetic
Resonance Imaging Data in the Normal
Brain . . . & Implications for Expert
Statistical Programming"</p> | <p><i>Hisao Nagoo</i>
"Tests of Hypotheses for
Covariance Matrices and
Distributions Under Multivariate
Normal Populations"</p> |
| 1991 | <p><i>R.R. Vemuganti, David Dianich, Marilyn
Oblak, & H. Dabbaghi</i>
Constrained Optimal Production Lot Sizes
for Several Products"</p> | <p><i>C. Daminou & A. W. Kemp</i>
"New Goodness-of-Fit Test
Statistics for Discrete and Grouped
Continuous Data"</p> |
| 1992 | <p><i>Yaakov Mevorach & Moshe Pollack</i>
"A Small Sample Size Comparison of the
Cusum and Shirayayev- Roberts
Approaches to Change-point Detection"</p> | <p><i>Z. Govindarajulu & Michael N.
Katehakis</i>
"Dynamic Allocation in Survey
Sampling"</p> |

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| 1993 | <i>K. E. Rosing</i>
"The Optimal Location of Steam Generators in Large Heavy Oil Fields" | <i>Dean P. Foster & Rakesh V. Vohra</i>
"A Probabilistic Analysis of the K-Location Problem" |
| 1994 | <i>I. Ming Chao, Bruce L. Golden, & Edward Wasil</i>
"A New Heuristic for the Multi-Depot Vehicle Routing Problem that Improves Upon the Best-Known Solutions" | <i>Julien Bramel, Chung-Lu Li, & David Simchi-Levi</i>
"Probabilistic Analysis of a Vehicle Routing Problem with Time Windows" |
| 1995 | <i>Hanif D. Sherali, Amine Alameddine, & Theodore S. Glickman</i>
"Biconvex Models and Algorithms for Risk Management Problems" | <i>I.D. Dhariyal, R.K.S., Rathore, P. Munshi, Richa Rastogi, & Tanuja Srivastava</i>
"Design of Optimal Statistical Filter for the Discrete Convolution Back-projection Method" |
| 1996 | <i>T. Pham-Gia</i>
"Some Applications of the Lorenz Curve in Decision Analysis" | <i>Serge B. Provost & Edmund M. Rudiuk</i>
"The Sampling Distribution of the Serial Correlation Coefficient" |
| 1997 | <i>Jorge L. Romeu & Aydin Ozturk</i>
"A New Graphical Test For Multivariate Normality" | <i>L. Györfi, I Vajda, & Edward C. van der Meulen</i>
"Minimum Kolmogorov Distance Estimates for Multivariate Parameterized Families" |
| 1998 | <i>Rebecca Parsons & Mark E. Johnson</i>
"A Case Study In Experimental Design Applied to Genetic Algorithms With Applications to DNA Sequence Assembly" | <i>Yasunori Fujikoshi</i>
"A Method for Improving the Large-Sample Chi-Squared Approximations to Some Multivariate Statistics" |

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|------|---|---|
| 1999 | <p><i>Edward J. Dudewicz & Shafiq U. Ahmed</i>
"New Exact and Asymptotically Optimal Solutions to the Behrens-Fisher Problem, With Tables"</p> | <p><i>Takashi Kanda & Yasunori Fujikoshi</i>
"Some Basic Properties of the MLE's for a Multivariate Normal Distribution with Monotone Missing Data"</p> |
| 2000 | <p><i>Joo O Koo</i>
"Modern Mathematical, Management, and Statistical Sciences, The Index to the 20th Century, Prologue to the 21st Century"</p> | <p><i>Pierre L'Ecuyer, Benoit Martin, & Felisa J. Vázquez-Abad</i>
"Functional Estimation for a Multi-Component Age Replacement Model"</p> |
| 2001 | <p><i>David J. Hand</i>
"New Uses of Statistics in Retail Banking"</p> | <p><i>Mihoko Minami, Kunio Shimizu, & Satya N. Mishra</i>
"ML and REML Estimation of Matusita's Measure for Two Bivariate Normal Distributions with Missing Observations"</p> |
| 2002 | <p><i>Sat N. Gupta & James McDermott</i>
"A Two-Step Approach to Estimating Fractionally differenced ARIMA Models"</p> | <p><i>Yuchiro Kakihara</i>
"Some Topologies on a Set of Information Channels"</p> |
| 2003 | <p><i>Thomas J. Santner & S. Panchapakesan</i>
"Professor Shanti Swarup Gupta"</p> | <p><i>Neeraj Misra, S.K. Sharma, & A.N. Gill</i>
"Simultaneous Multiple Comparisons with the Worst and the Best"</p> |
| 2004 | <p><i>P.C. Lin, K.S. Chen, & W. L. Pearn</i>
"Distributional Properties and Implications of the Estimated Process Incapability Index \hat{C}_{pp}"</p> | <p><i>Peter R. Nelson</i>
"Heteroscedastic Analysis of Means"</p> |

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|------|---|--|
| 2005 | <i>Paul F. Zantek & Bruce L. Golden</i>
"Identifying Extreme Decision Makers in Group AHP" | <i>P.R. Parthasarathy & R. B. Lenin</i>
"Birth and Death Process (BDP) Models with Applications-Queuing, Communication Systems, Chemical Models, Biological Models: The State-of-the-Art with a Time-Dependent Perspective" |
| 2006 | <i>Joachim Hartung & Guido Knapp</i>
"Models for Combining Results of Different Experiments: Retrospective and Prospective" | <i>Yasunori Fujikoshi, Hirofumi Wakaki & Hirozaku Yanigahara</i>
"Bias Corrections of Some Criteria for Selecting Multivariate Linear Models in a General Nonnormal Case" |
| 2007 | <i>Jorge Luis Romeu</i>
"On Operations Research and Statistical Techniques: Keys to Quantitative Data Mining" | <i>Saralees Nadarajah & Samuel Kotz</i>
"Exact Distribution of XY for the Elliptically Symmetric Pearson Type II Distribution" |
| 2008 | <i>Weixing Cai & Edward J. Dudewicz</i>
"The Generalized Bootstrap: A New Fitting Strategy & A Simulation Study Showing Advantage over Bootstrap Percentile Methods" | <i>Parmjit S. Gill & Tim B. Swartz</i>
"Bayesian Analysis of Dyadic Data" |
| 2009 | <i>Mohamed Barkaoui, Jean Berger, & Abdelsem Boukhtouta</i>
"A Hybrid Genetic Approach for the Dynamic Vehicle Routing Problems with Windows" | <i>Sung Eun Kim</i>
"Multivariate Time Series Model for Pollutant Transport Using Environmental Monitoring Data" |

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