

# Curriculum Vitae of PROF. N. BALAKRISHNAN

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## Business Address

Department of Mathematics and Statistics  
McMaster University  
Hamilton, Ontario  
Canada L8S 4K1

Phone : (905)525-9140 Ext: 23420  
Fax : (905)522-1676  
e-mail: *bala@mcmaster.ca*

## Educational Background

B.Sc. (Statistics), University of Madras, India, in 1976  
M.Sc. (Statistics), University of Madras, India, in 1978  
Ph.D. (Statistics), Indian Institute of Technology, Kanpur, India, in 1981

## Positions Held

McMaster University, Hamilton, Canada

*Post-doctoral Fellow*, 1982–1983

*University Research Fellow*, 1985–1986

*Assistant Professor*, 1986–1989

*Associate Professor*, 1989–1995

*Professor*, 1995–

*Post-doctoral Fellow*, University of Manitoba, Winnipeg, Canada, 1983

*Coordinator of the Graduate Program in Statistics*, McMaster University, Canada (for three years from 1993-1996; at present since Jan. 2009)

*Vice-President*, International Indian Statistical Association (for two years from July 2001-June 2003)

*President*, International Indian Statistical Association (for one year from July 2004-June 2005)

*Past-President*, International Indian Statistical Association (for one year from July 2005-June 2006)

*Adjunct Professor*, National Central University, Taiwan (beginning 2007)

*Distinguished Visiting University Professor*, Ren-min University, Beijing, China (beginning 2009).

*Distinguished Visiting University Professor*, King Saud University, Riyadh, Saudi Arabia (2010 – 2011).

## Visiting Positions Held

*Visiting Faculty*, University of Guelph, Guelph, Canada, 1984–1985

*Visiting Associate Professor*, University of Waterloo, Waterloo, Canada, 1992-1993

*Visiting Professor*, University of Waterloo, Waterloo, Canada, 1996

*Visiting Professor*, Ain-Shams University, Cairo, Egypt, 1999

*Visiting Professor*, Universite de Le Havre, Le Havre, France, 2001

*Visiting Professor*, Ankara University, Ankara, Turkey, 2002

*Visiting Professor*, King Saud University, Riyadh, Saudi Arabia, 2003

*Visiting Distinguished Eugene Lukacs Professor*, Bowling Green State University, Ohio, USA, 2005

*Visiting Professor*, University of Texas, San Antonio, Texas, USA, 2006

*Visiting Distinguished Santalo Lecturer*, Universidad Complutense Madrid, Spain, 2006

*Visiting Professor*, National Central University, Taiwan, 2007

*Visiting Professor*, Ren-Min University, Beijing, China, 2007

*Visiting Professor*, University of Berne, Berne, Switzerland, 2008

*Visiting Professor*, University of Bologna, Bologna, Italy, 2009

*Visiting Professor*, University of Vienna, Vienna, Austria, 2009

*Visiting Professor*, Nankai University, Tianjin, China, 2010

*Visiting Professor*, Cochin University of Science and Technology, Cochin, India, 2010

*Visiting Professor*, University of Pau, Pau, France, 2011

*Visiting Professor*, Nankai University, Tianjin, China, 2011

*Visiting Professor*, Northeastern Normal University, Changchun, China, 2011

*Visiting Professor*, Kuwait University, Kuwait, 2012.

## Honours Accorded and Membership

*Fellow of the American Statistical Association* in 1995

*Fellow of the Institute of Mathematical Statistics* in 2006

*Elected Member of the International Statistical Institute* in 1992

*Distinguished Eugene Lukacs Professor* at Bowling Green State University, Bowling Green, Ohio, in 2005

*Distinguished Santalo Lecturer* at Universidad Complutense de Madrid, Spain, in 2006

*Elected Honorary Member* of the Greek Statistical Institute in 2007

*Fellow of the Turkish Statistical Association* in 2003

*Don Owen Award* winner, awarded by the American Statistical Association in 2008

*Valuable Service Award* winner, awarded by the International Statistical Association in 2010

*McMaster Students Union Teaching Award* on five occasions, three from the Faculty of Science, one from the Faculty of Engineering, and one from the Arts & Science Program

*Member* of the American Statistical Association, Institute of Mathematical Statistics, Statistical Society of Canada, American Society for Quality Control, International Indian Statistical Association.

## Editorial Positions

### At present

*Editor-in-Chief* for *Communications in Statistics—Theory and Methods*

*Editor-in-Chief* for *Communications in Statistics—Simulation and Computation*

*Associate Editor* for *Metrika*

*Associate Editor* for *Methodology and Computing in Applied Probability*

*Associate Editor* for *Journal of Probability and Statistical Science*

*Editor-in-Chief* for the Revised Edition of *Encyclopedia of Statistical Sciences* published by John Wiley & Sons, Hoboken, New Jersey

*Editor-in-Chief* for the Series *Statistics for Industry and Technology* of books and volumes published by Birkhäuser, Boston

*Editor-in-Chief* for the Series *Handbooks on Methods and Applications of Statistics* published by John Wiley & Sons, Hoboken, New Jersey

*Editor-in-Chief* for the Series *Statistics* of books and monographs published by Taylor & Francis, Philadelphia

*Editorial Board Member* for the Series of books and monographs published by SIAM, Philadelphia.

## In the past

*Managing Editor for Journal of Statistical Planning and Inference*

*Associate Editor for Test*

*Associate Editor for Journal of Statistical Planning and Inference*

*Associate Editor for IEEE Transactions on Reliability*

*Associate Editor for Naval Research Logistics*

*Associate Editor for Communications in Statistics*

*Associate Editor for Computational Statistics & Data Analysis*

*Associate Editor for Metrika*

*Associate Editor for Selected Tables in Mathematical Statistics*

*Associate Editor for Statistical Methodology.*

## Administrative Positions

1. **Coordinator of the Graduate Program in Statistics**, McMaster University, Canada  
(for three years in the past, and also currently for the last three years)
2. **Vice-President**, Intl. Indian Statistical Association (for two years)
3. **President**, Intl. Indian Statistical Association (for one year).

## Graduate Supervision

M.Sc. Project/Thesis Supervision - 60 (not listed)

Ph.D. Thesis Supervision - 44 (listed below)

**R.S. Ambagaspitiya** (1991), currently as Associate Professor at the University of Calgary, Canada

**P.S. Chan** (1993), currently as Associate Professor at The Chinese University of Hong Kong

**A. Childs** (1996), currently as Associate Professor at McMaster University, Hamilton, Canada

**R. Aggarwala** (1996), currently practicing as a lawyer in Calgary, Alberta, Canada

**K.S. Sultan** (1998), currently as Professor at King Saud University, Riyadh, Saudi Arabia

**S.L. Sheng** (1998), currently as Research Scientist at the National Institute of Health, Bethesda, Maryland

**Y. Ma** (1998), currently as Statistician in a Pharmaceutical firm in Toronto, Canada

**Q. Zhou** (2002), currently as Assistant Professor, McMaster University, Canada

**H.K.T. Ng** (2002), currently as Associate Professor at Southern Methodist University, Dallas, Texas, USA

**Jeong-Ae Kim** (2004), currently as Senior Scientist at LG Inc., Daejeon, South Korea

**Po Yang** (2004), currently as Assistant Professor at University of Manitoba, Winnipeg, Manitoba, Canada

**Akbar Asgharzadeh** (2004), currently as Assistant Professor at Massandaran University, Massandaran, Iran

**Fathy Hilmy Eissa** (2004), currently as Assistant Professor at King Abdulaziz University, Saudi Arabia

**Tao Li** (2005), currently as Associate Professor at Peking University, Beijing, China

**Majid Rezaei** (2006), currently as Assistant Professor at Ferdowsi University, Mashhad, Iran

**Arezou Habibirad** (2006), currently as Assistant Professor at Ferdowsi University, Mashhad, Iran

**Qihao Xie** (2006), currently as Scientist at Bombardier Canada, Mississauga, Ontario, Canada

**Mahdi Doostparast** (2006), currently as Assistant Professor at Ferdowsi University, Mashhad, Iran

**Abbas Rasouli** (2006), currently as Assistant Professor at Zanjan University, Zanjan, Iran

**Ahad Jamalizadeh** (2006), currently as Assistant Professor at Shahid Bahonar University, Kerman, Iran

**Xingqiu Zhao** (2008), currently as Associate Professor at Hong Kong Polytechnic University, Hong Kong

**Dong-hoon Han** (2008), currently as Assistant Professor at University of Texas, San Antonio, Texas, USA

**Xuan Zhang** (2008), currently as Risk Manager in Bank of Montreal, Toronto, Ontario, Canada

**Peng Zhao** (2008), currently as Associate Professor at Lanzhou University, Lanzhou, China

**Hassan Saleh** (2010), currently as Assistant Professor at Beni-Suef University, Egypt

**Maryam Sharafi** (2011), currently as Assistant Professor at Shahid Beheshti University, Kermanshah, Iran

**Zhengqiang Pan** (2011), currently as Assistant Professor at National University of Defense Technology, Changsha, China

**William Volterman** (2011), to join as Assistant Professor at Syracuse University, Syracuse, New York, USA

**Ahmed Roby Elshafay** (2011), currently as Assistant Professor at Fayoum University, Egypt

**Tianyu Sun** (2012), currently as Assistant Professor at Northwestern Polytechnical University, Xian, China

**Laila Al-Khalfan** (2012), currently as Assistant Professor at Kuwait University, Kuwait

**Debanjan Mitra** (2012), currently as Assistant Professor at Indian Institute of Technology, Gauhati, India

**Man-Ho Ling** (2012), currently as Post-doctoral Fellow at Hong Kong City University, Hong Kong

**Su Feng** (2012), currently as Assistant Professor at Southwestern University, China

**Ick Huh**, working on his thesis and is expected to finish in August 2013

**Suvra Pal**, working on his thesis and is expected to finish in August 2013

**Song Mao**, working on her thesis and is expected to finish in December 2013

**Xiaolin Wang**, working on his thesis and is expected to finish in December 2013

**Reza Arabi Belaghi**, working on his thesis and is expected to finish in April 2014

**Li Zhang**, working on her thesis and is expected to finish in August 2014

**Lin Fang**, working on her thesis and is expected to finish in August 2014

**Xiaojun Zhu**, working on his thesis and is expected to finish in August 2015

**Henry So**, working on his thesis and is expected to finish in August 2016

**Sayantee Jana**, working on her thesis and is expected to finish in August 2016

**Tao Tan**, working on her thesis and is expected to finish in August 2016

## Research Grants

Period	Funding Agency	Amount of support
1986–'87	Science and Engineering Research Board, McMaster University	\$7,500
1987–'90	Natural Sciences and Engineering Research Council of Canada	\$34,300
1987–'88	Science and Engineering Research Board, McMaster University	\$6,000
1990–'94	Natural Sciences and Engineering Research Council of Canada	\$40,000
1994–'97	Natural Sciences and Engineering Research Council of Canada	\$30,000
1997–2001	Natural Sciences and Engineering Research Council of Canada	\$56,000
2001–2005	Natural Sciences and Engineering Research Council of Canada	\$72,000
2005–2009	Natural Sciences and Engineering Research Council of Canada	\$88,000
2009–2014	Natural Sciences and Engineering Research Council of Canada	\$175,000
2001–2003	Marcel Dekker, Inc., New York	\$30,000(US)/yr
2004–2006	Marcel Dekker, Inc., New York	\$32,000(US)/yr.
2006–2008	Taylor and Francis, Philadelphia, Pennsylvania	\$34,000(US)/yr.
2009–2011	John Wiley & Sons, Hoboken, New Jersey	\$9,000(US)/yr.
2009–2011	North-Holland, Amsterdam, The Netherlands	\$10,000(US)/yr.
2009–2014	Taylor and Francis, Philadelphia, Pennsylvania	\$39,000(US)/yr.

## Books Authored

- An Introduction to Lifetime Data Analysis* (co-authored with C. Caroni), Birkhäuser, Boston, 2013 (to appear).
- Fisher Information in Ordered Data* (co-authored with S. Park and G. Zheng), Springer-Verlag, New York, 2013 (to appear).
- Quantile Methods in Reliability and Applications* (co-authored with U. Nair and P.G. Sankaran), Birkhäuser, Boston, 2013 (to appear).
- Chi-Squared Goodness-of-fit Tests and Applications* (co-authored with V. Voinov and M.S. Nikulin), Academic Press, Boston, 2013 (229 pages).
- Continuous Bivariate Distributions: Theory and Methods*, Second edition (co-authored with C. D. Lai), Springer-Verlag, New York, 2009 (684 pages).
- A First Course in Order Statistics* (co-authored with B.C. Arnold and H.N. Nagaraja), Classic edition, SIAM Publishers, Philadelphia, 2008 (279 pages).
- Precedence-Type Tests and Applications* (co-authored with H.K.T. Ng), John Wiley & Sons, Hoboken, New Jersey, 2006 (314 pages).
- Extreme Value and Related Models with Applications in Engineering and Science* (co-authored with E. Castillo, A.S. Hadi and J.M. Sarabia), John Wiley & Sons, Hoboken, New Jersey, 2005 (362 pages).
- A Primer on Statistical Distributions* (co-authored with V.B. Nevzorov), John Wiley & Sons, Hoboken, New Jersey, 2003 (305 pages).
- Runs and Scans with Applications* (co-authored with M.V. Koutras), John Wiley & Sons, New York, 2002 (452 pages).
- Progressive Censoring: Theory, Methods and Applications* (co-authored with R. Aggarwala), Birkhäuser, Boston, 2000 (248 pages).
- Continuous Multivariate Distributions, Vol. 1*, Second edition (co-authored with S. Kotz and N.L. Johnson), John Wiley & Sons, New York, 2000 (722 pages).
- Records* (co-authored with B.C. Arnold and H.N. Nagaraja), John Wiley & Sons, New York, 1998 (312 pages).
- Discrete Multivariate Distributions* (co-authored with N.L. Johnson and S. Kotz), John Wiley & Sons, New York, 1997 (299 pages).
- Continuous Univariate Distributions - Volume 2*, Second edition (co-authored with N.L. Johnson and S. Kotz), John Wiley & Sons, New York, 1995 (719 pages).
- Continuous Univariate Distributions - Volume 1*, Second edition (co-authored with N.L. Johnson and S. Kotz), John Wiley & Sons, New York, 1994 (756 pages).
- A First Course in Order Statistics* (co-authored with B.C. Arnold and H.N. Nagaraja), John Wiley & Sons, New York, 1992 (279 pages).
- Order Statistics and Inference: Estimation Methods* (co-authored with A.C. Cohen), Academic Press, San Diego, 1991 (371 pages).

*Relations, Bounds and Approximations for Order Statistics* (co-authored with B.C. Arnold), Springer-Verlag, New York, 1989 (173 pages).

*Robust Inference* (co-authored with M.L. Tiku and W.Y. Tan), Marcel Dekker, New York, 1986 (321 pages).

## Handbooks Authored/Edited

*Handbook of the Logistic Distribution*, Second edition, Taylor & Francis, Philadelphia, 2013 (to appear).

*Handbook of Tables for Order Statistics from Lognormal Distributions with Applications* (coauthored with W.W.S. Chen), Kluwer Academic Publishers, Boston, 1999 (868 pages).

*Tables for the Use of Range and Studentized Range in Tests of Hypotheses* (coauthored with H.L. Harter), CRC Press, Boca Raton, Florida, 1998 (663 pages).

*CRC Handbook of Tables for Order Statistics from Inverse Gaussian Distributions with Applications* (coauthored with W.W.S. Chen), CRC Press, Boca Raton, Florida, 1997 (688 pages).

*CRC Handbook of Tables for the Use of Order Statistics in Estimation* (coauthored with H.L. Harter), CRC Press, Boca Raton, Florida, 1996 (669 pages).

*The Exponential Distribution: Theory, Methods and Applications* (co-edited with A.P. Basu), Gordon and Breach, Newark, NJ, 1995 (638 pages).

*Handbook of the Logistic Distribution*, Marcel Dekker, New York, 1992 (601 pages).

## Volumes Edited

**Encyclopedia of Statistical Sciences (16 Volumes)**, Second edition, John Wiley & Sons, Hoboken, New Jersey, 2006.

*Methods and Applications of Statistics in the Atmospheric and Earth Sciences*, John Wiley & Sons, Hoboken, New Jersey, 2013 (362 pages).

*Methods and Applications of Statistics in the Social and Behavioral Sciences*, John Wiley & Sons, Hoboken, New Jersey, 2012 (560 pages).

*Methods and Applications of Statistics in Engineering, Quality Control, and the Physical Sciences*, John Wiley & Sons, Hoboken, New Jersey, 2011 (750 pages).

*Modern Mathematical Tools and Techniques in Capturing Complexity*, Springer-Verlag, Berlin, 2011 (512 pages).

*Methods and Applications of Statistics in Business, Finance, and Management Science*, John Wiley & Sons, Hoboken, New Jersey, 2010 (711 pages).

*Methods and Applications of Statistics in the Life and Health Sciences*, John Wiley & Sons, Hoboken, New Jersey, 2010 (986 pages).



- Mathematical and Statistical Models and Methods in Reliability* (co-edited with V. Rykov and M.S. Nikulin), Birkhäuser, Boston, 2010 (457 pages).
- Advances in Degradation Modeling: Applications to Reliability, Survival Analysis, and Finance* (co-edited with M.S. Nikulin, N. Limnios, W. Kahle and C. Huber-Carol), Birkhäuser, Boston, 2010 (416 pages).
- Advances in Mathematical and Statistical Modeling* (co-edited with B.C. Arnold, J.M. Sarabia and R. Mínguez), Birkhäuser, Boston, 2008 (530 pages).
- Beyond Parametrics in Interdisciplinary Research: Festschrift in Honor of Professor Pranab K. Sen* (Co-edited with E. Pěna and M. J. Silvapulle), Institute of Mathematical Statistics Collections, Volume 1, Beachwood, Ohio , 2008 (407 pages).
- Advances in Statistical Methods for the Health Sciences* (co-edited with J.-L. Auget, M. Mesbah and G. Molenberghs), Birkhäuser, Boston, 2007 (540 pages).
- 16 Volumes of *Encyclopedia of Statistical Sciences*, Second edition (co-edited with S. Kotz, C.B. Read and B. Vidakovic), John Wiley & Sons, Hoboken, New Jersey (2006).
- Advances in Distribution Theory, Order Statistics, and Inference* (co-edited with E. Castillo and J.M. Sarabia), Birkhäuser, Boston, 2006 (490 pages).
- Advances on Models, Characterizations and Applications* (co-edited with I.G. Bairamov and O.L. Gebizlioglu), Chapman & Hall/CRC Press, New York, 2005 (234 pages).
- Advances in Ranking and Selection, Multiple Comparisons and Reliability* (co-edited with N. Kannan and H.N. Nagaraja), Birkhäuser, Boston, 2005 (412 pages).
- Parametric and Semiparametric Models with Applications to Reliability, Survival Analysis, and Quality of Life* (co-edited with M.S. Nikulin, M. Mesbah and N. Limnios), Birkhäuser, Boston, 2004 (555 pages).
- Handbook of Statistics - 23: Advances in Survival Analysis* (co-edited with C.R. Rao), North-Holland, Amsterdam, 2004 (771 pages).
- Statistical Methods and Practice* (co-edited with N. Kannan and M.R. Srinivasan), Narosa Publishing House, New Delhi, 2003 (363 pages).
- Goodness-of-Fit Tests and Model Validity* (co-edited with C. Huber-Carol, M. Nikulin and M. Mesbah), Birkhäuser, Boston, 2002 (504 pages).
- Advances on Methodological and Applied Aspects of Probability and Statistics*, Taylor & Francis, London, 2002 (620 pages).
- Advances on Theoretical and Methodological Aspects of Probability and Statistics*, Taylor & Francis, London, 2002 (528 pages).
- Handbook of Statistics - 20: Advances in Reliability* (co-edited with C.R. Rao), North-Holland, Amsterdam, 2001 (837 pages).
- Probability and Statistical Models with Applications* (co-edited with Ch.A. Charalambides and M.V. Koutras), Chapman & Hall, Boca Raton, 2001 (624 pages).
- Asymptotic Methods in Probability and Statistics with Applications* (co-edited with I.A. Ibragimov and V.B. Nevzorov), Birkhäuser, Boston, 2001 (549 pages).

- Advances in Stochastic Simulation Methods* (co-edited with V.B. Melas and S. Ermakov), Birkhäuser, Boston, 2000 (386 pages).
- Scan Statistics and Applications* (co-edited with J. Glaz), Birkhäuser, Boston, 1999 (324 pages).
- Handbook of Statistics - 17: Order Statistics – II: Applications* (co-edited with C.R. Rao), North-Holland, Amsterdam, 1998 (712 pages).
- Handbook of Statistics - 16: Order Statistics – I: Theory and Methods* (co-edited with C.R. Rao), North-Holland, Amsterdam, 1998 (731 pages).
- Advances in Statistical Decision Theory and Applications* (co-edited with S. Panchapakesan), Birkhäuser, Boston, 1997 (448 pages).
- Advances in Combinatorial Methods and Applications to Probability and Statistics*, Birkhäuser, Boston, 1997 (562 pages).
- Advances in the Theory and Practice of Statistics – A Volume in Honor of Samuel Kotz* (co-edited with N.L. Johnson), John Wiley & Sons, New York, 1997 (629 pages).
- Recent Advances in Life-Testing and Reliability*, CRC Press, Boca Raton, 1995 (632 pages).

## Major Papers in Journals

- Ordering properties of order statistics from heterogeneous populations: A review with an emphasis on some recent developments (with P. Zhao), *Probability in the Engineering and Informational Sciences* (2014), to appear (with discussions).
- Hybrid censoring: Models, inferential results and applications (with D. Kundu), *Computational Statistics & Data Analysis* (2013), **57**, 166-209 (with discussions).
- Nonparametric inference based on panel count data (with X. Zhao and J. Sun), *Test* (2011), **20**, 1-71 (with discussions).
- New multi-sample nonparametric tests for panel count data (with X. Zhao), *The Annals of Statistics* (2009), **37**, 1112-1149.
- A synthesis of exact inferential results for exponential step-stress models and associated optimal accelerated life-tests, *Metrika* (2009), **69**, 351-396.
- Progressive censoring methodology: An appraisal, *Test* (2007), **16**, 211-296 (with discussions).
- Permanents, order statistics, outliers, and robustness, *Revista Matemática Complutense* (2007), **20**, 7-107.
- Analyzing unreplicated factorial experiments: A review with some new proposals (with M. Hamada), *Statistica Sinica* (1998), **8**, 1-41 (with discussions).
- Order statistics from non-identical exponential random variables and some applications, *Computational Statistics & Data Analysis* (1994), **18**, 203-253 (with discussions).

## Selected Journal Articles

### To appear

- A new cure rate survival model under a hybrid latent activation scheme (with P. Borges, J. Rodrigues and F. Louzada), *Statistical Methods in Medical Research*.
- Mixture representations for the joint distribution of lifetimes of two coherent systems with shared components (with J. Navarro and F.J. Samaniego), *Journal of Applied Probability*.
- Stochastic orderings and aging properties of residual life-lengths of live components in  $(n - k + 1)$ -out-of- $n$  systems (with G. Barmalzan and A. Haidari), *Journal of Applied Probability*.
- Hypothesis testing in a generic nesting framework for general distributions (with N. Martin), *Journal of Multivariate Analysis*.
- Factor aliased effect number pattern and experimental planning (with R. Zhang and Q. Zhou), *The Canadian Journal of Statistics*.
- A meta-analysis of multi-sample Type-II censored data with parametric and nonparametric results (with W. Volterman and L. Zhang), *IEEE Transactions on Reliability*.
- Expectation maximization algorithm for one shot device accelerated life testing with Weibull lifetimes, and variable parameters over stress (with M.H. Ling), *IEEE Transactions on Reliability*.
- Generating beta random numbers and Dirichlet random vectors in R: The package rBeta2009 (with C.W. Cheng and Y-C. Hung), *Computational Statistics & Data Analysis*.
- Exact meta-analysis of several independent progressively Type-II censored data (with W. Volterman and E. Cramer), *Computational Statistics*.
- Efficient iterative computation of mixture weights for pooled order statistics for meta-analysis of multiple Type-II right censored data (with W. Volterman), *Computational Statistics*.
- On the hazard rate and reversed hazard rate orderings of folded binomials (with G. Barmalzan and A. Haidari), *Statistics & Probability Letters*.
- Simultaneous Pitman closeness of progressively Type-II right-censored order statistics to population quantiles (with W. Volterman and K.F. Davies), *Statistics*.
- Runs based on records: Their distributional properties and an application to testing for dispersive ordering (with A. Stepanov), *Methodology and Computing in Applied Probability*.
- Generating functions of waiting times and numbers of visits for random walks on graphs (with K. Inoue and S. Aki), *Methodology and Computing in Applied Probability*.

### 2013

- Scale mixtures of Kotz-Dirichlet distributions (with E. Hashorva), *Journal of Multivariate Analysis*, **113**, 48-58.
- Hazard rate comparison of parallel systems with heterogeneous gamma components (with P. Zhao), *Journal of Multivariate Analysis*, **113**, 153-160.

- Determinants, permanents and some applications to statistical shape theory (with F.J. Caro-Lopera and G. Gonzalez-Farias), *Journal of Multivariate Analysis*, **114**, 29-39.
- Generalized multivariate Birnbaum-Saunders distributions and related inferential issues (with D. Kundu and A. Jamalizadeh), *Journal of Multivariate Analysis*, **116**, 230-244.
- Influence diagnostics in linear and nonlinear mixed-effects models with censored data (with L.A. Matos, V.H. Lachos and F.V. Labra), *Computational Statistics & Data Analysis*, **57**, 450-464.
- A consistent method of estimation for the three-parameter Weibull distribution (with H. Nagatsuka and T. Kamakura), *Computational Statistics & Data Analysis*, **58**, 210-226.
- Goodness-of-fit tests for progressively Type-II censored data from location-scale distributions (with R. Pakyari), *Journal of Statistical Computation and Simulation*, **83**, 167-178.
- On the goodness-of-fit procedure for normality based on the empirical characteristic function for ranked set sampling data (with A.J. Quiroz and M.R. Brito), *Metrika*, **76**, 161-177.
- An information theoretical algorithm for analyzing supersaturated designs for a binary response (with C. Koukouvinos and C. Parpoula), *Metrika*, **76**, 1-18.
- On properties of progressively Type-II censored order statistics arising from dependent and non-identical random variables (with M. Rezapour, M.H. Alamatsaz and E. Cramer), *Statistical Methodology*, **10**, 58-71.
- On some exact distributional results based on Type-I progressively hybrid censored data from exponential distributions (with E. Cramer), *Statistical Methodology*, **10**, 128-150.

## **2012**

- A sequential order statistics approach to step-stress testing (with U. Kamps and M. Kateri), *Annals of the Institute of Statistical Mathematics*, **64**, 303-318.
- A Bayesian destructive weighted Poisson cure rate model and an application to a cutaneous melanoma data (with J. Rodrigues, V.G. Cancho and M. de Castro), *Statistical Methods in Medical Research*, **21**, 585-597.
- On the residual and inactivity times of the components of used coherent systems (with S. Golliforushani and M. Asadi), *Journal of Applied Probability*, **49**, 385-404.
- Connection between the Hadamard and matrix products with an application to matrix-variate Birnbaum-Saunders distributions (with F.J. Caro-Lopera and V. Leiva), *Journal of Multivariate Analysis*, **104**, 126-139.
- Increasing directionally convex orderings of random vectors having the same copula, and their use in comparing ordered data (with F. Belzunce, M.A. Sordo and A. Suarez-Llorens), *Journal of Multivariate Analysis*, **105**, 45-54.
- Multivariate measures of skewness for the skew-normal distribution (with B. Scarpa), *Journal of Multivariate Analysis*, **104**, 73-87.
- On the sample ranges from heterogeneous exponential variables (with M. Xu), *Journal of Multivariate Analysis*, **109**, 1-9.

- A class of correlated weighted Poisson processes (with P. Borges and J. Rodrigues), *Journal of Statistical Planning and Inference*, **142**, 366-375.
- Concomitants of order statistics from multivariate elliptical distributions (with A. Jamalizadeh), *Journal of Statistical Planning and Inference*, **142**, 397-409.
- A consistent parameter estimation in the three-parameter lognormal distribution (with H. Nagatsuka), *Journal of Statistical Planning and Inference*, **142**, 2071-2086.
- Parameter and quantile estimation for the three-parameter gamma distribution based on statistics invariant to unknown location (with H. Nagatsuka), *Journal of Statistical Planning and Inference*, **142**, 2087-2102.
- A proposed measure of residual life of live components of a coherent system (with M. Asadi), *IEEE Transactions on Reliability*, **61**, 41-49.
- Multiple-stress model for one-shot device testing data under exponential distribution (with M.H. Ling), *IEEE Transactions on Reliability*, **61**, 809-821.
- A general purpose approximate goodness-of-fit test for progressively Type-II censored data (with R. Pakyari), *IEEE Transactions on Reliability*, **61**, 238-244.
- Optimal design for degradation tests based on gamma processes with random effects (with C-C. Tsai and S-T. Tseng), *IEEE Transactions on Reliability*, **61**, 604-613.
- Parametric inference for component distributions from lifetimes of systems with dependent components (with H.K.T. Ng and J. Navarro), *Naval Research Logistics*, **59**, 487-496.
- EM algorithm for one-shot device testing under the exponential distribution (with M.H. Ling), *Computational Statistics & Data Analysis*, **56**, 502-509.
- Shape and change point analyses of the Birnbaum-Saunders-t hazard rate and associated estimation (with C. Azevedo, V. Leiva and E. Athayde), *Computational Statistics & Data Analysis*, **56**, 3887-3897.
- Computation of optimal plotting points based on Pitman closeness with an application to goodness-of-fit for location-scale families (with K.F. Davies, J.P. Keating and R.L. Mason), *Computational Statistics & Data Analysis*, **56**, 2637-2649.
- Left truncated and right censored Weibull data and likelihood inference with an illustration (with D. Mitra), *Computational Statistics & Data Analysis*, **56**, 4011-4025.
- Correlated destructive generalized power series cure rate models and associated inference with an application to a cutaneous melanoma data (with P. Borges and J. Rodrigues), *Computational Statistics & Data Analysis*, **56**, 1703-1713.
- Exact nonparametric meta-analysis for multiple independent doubly Type-II censored samples (with W. Volterman and E. Cramer), *Computational Statistics & Data Analysis*, **56**, 1243-1255.
- Monotonicity properties of residual lifetimes of parallel systems and inactivity times of series systems with heterogeneous components (with W. Ding and X. Li), *Probability in the Engineering and Informational Sciences*, **26**, 61-75.

- Stochastic comparisons of largest order statistics from multiple-outlier exponential models (with P. Zhao), *Probability in the Engineering and Informational Sciences*, **26**, 159-182.
- Log-concavity and monotonicity of hazard and reversed hazard functions of univariate and multivariate skew-normal distributions (with R.C. Gupta), *Metrika*, **75**, 181-191.
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## **International Conferences Organized**

*International Conference on Multivariate Distributions and Random Matrices* at CIMAT, Guanajuato, Mexico — September 19-22, 2013

*International Conference on Mathematical Methods in Reliability* at University of Stellenbosch, Stellenbosch, South Africa — July 1-4, 2013

*PIMS Workshop on Skewed Models, Copulas and Applications*, Banff, Alberta, Canada – May 20, 24, 2013

*International Conference on Mathematical Methods in Reliability* at the Beijing Institute of Technology, Beijing, China — June 20-24, 2011

*Conference on Ordered Statistical Data and Related Topics* at the Ferdowsi University of Mashhad, Mashhad, Iran — June 15-17, 2006

*International Conference on the Future of Statistical Theory, Practice and Education* at Indian School of Business, Hyderabad, India — December 29, 2004 - January 1, 2005.

*International Conference on Statistical Methods in Health Sciences* at University of Nantes, Nantes, France – June 23-25, 2004



*International Conference on Distribution Theory, Order Statistics and Inference* at University of Cantabria, Santander, Spain — June 16-18, 2004

*International Conference on Statistical Inference and Applications* at KIMEPS, Almaty, Kazakhstan — June 9-12, 2003

*International Workshop on Statistical Inference for Semi-parametric Models* at Mount St. Michel, France — May 15-17, 2003

*International Conference on Ranking and Selection, Multiple Comparisons and Reliability with Applications* at Chennai, India — December 28-30, 2002

*International Conference on Characterizations, Models and Applications* at Antalya, Turkey — December 7-9, 2001

*International Symposium on Statistical Methods for the Analysis of Olympic Record Data* at Universite de Bordeaux-2 , Bordeaux, France — September 4-6, 2001

*International Conference on Recent Developments in Probability and Statistics* at University of Madras, Chennai, India — December 21-22, 2000

*International Conference on Goodness-of-fit Tests and Model Validity* at Université de Paris-6, France — May 29-31, 2000

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