

Highlights of the Academic Career of Prof. N. Balakrishnan

February 17, 2013

Research Activities

Professor Balakrishnan has been actively involved in research work in diverse areas of Statistics, and has made significant contributions to many areas including Models and Analysis of Medical and Lifetime Data, Life-Testing and Reliability, Order Statistics, Robust Inference, Distribution Theory, Multivariate Distribution Theory, Characterization Theory, Inferential Methods, Industrial Statistics, Nonparametric Inference, Outliers, Multivariate Analysis, Bayesian and Empirical Bayesian Inference, Combinatorial Applications to Probability and Statistics, Record Values and Processes, Theory of Runs and Scans, Waiting Time Problems, Ranked Set Sampling, and Statistics in Finance.

Among his publications are the following nine major papers:

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

In addition to writing numerous research papers in many journals, Professor Balakrishnan has also authored and edited several books and volumes. Over the years, these have received good reviews and several citations in the literature.

Books Authored

- *Robust Inference* (Co-authored with M.L. Tiku and W.Y. Tan), Marcel Dekker, New York, 1986 (321 pages).
- *Relations, Bounds and Approximations for Order Statistics* (Co-authored with B.C. Arnold), Springer-Verlag, New York, 1989 (173 pages).
- *Order Statistics and Inference: Estimation Methods* (Co-authored with A.C. Cohen), Academic Press, San Diego, 1991 (371 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).
- *Continuous Univariate Distributions - Volume 1*, Second edition (Co-authored with N.L. Johnson and S. Kotz), John Wiley & Sons, New York, 1994 (756 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).
- *CRC Handbook of Tables for the Use of Order Statistics in Estimation* (Co-authored with H.L. Harter), CRC Press, Boca Raton, Florida, 1996 (669 pages).
- *Discrete Multivariate Distributions* (Co-authored with N.L. Johnson and S. Kotz), John Wiley & Sons, New York, 1997 (299 pages).
- *CRC Handbook of Tables for Order Statistics from Inverse Gaussian Distributions with Applications* (Co-authored with W.W.S. Chen), CRC Press, Boca Raton, Florida, 1997 (688 pages).
- *Records* (Co-authored with B.C. Arnold and H.N. Nagaraja), John Wiley & Sons, New York, 1998 (312 pages).
- *Tables for the Use of Range and Studentized Range in Tests of Hypotheses* (Co-authored with H.L. Harter), CRC Press, Boca Raton, Florida, 1998 (663 pages).
- *Handbook of Tables for Order Statistics from Lognormal Distributions with Applications* (Co-authored with W.W.S. Chen), Kluwer Academic Publishers, Boston, 1999 (868 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).
- *Progressive Censoring: Theory, Methods and Applications* (Co-authored with R. Aggarwala), Birkhäuser, Boston, 2000 (248 pages).
- *Runs and Scans with Applications* (Co-authored with M.V. Koutras), John Wiley & Sons, New York, 2002 (452 pages).
- *A Primer on Statistical Distributions* (co-authored with V.B. Nevzorov), John Wiley & Sons, New York, 2003 (305 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).
- *Precedence-Type Tests and Applications* (Co-authored with H. K. T. Ng), John Wiley & Sons, Hoboken, New Jersey, 2006 (290 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).
- *Continuous Bivariate Distributions: Theory and Methods*, Second edition (Co-authored with C. D. Lai), Springer-Verlag, New York, 2009 (684 pages).
- *Chi-Squared Goodness-of-fit Tests and Applications* (Co-authored with V. Voinov and M.S. Nikulin), Academic Press, Boston, 2013 (229 pages).
- *Quantile Methods in Reliability and Applications* (Co-authored with U. Nair and P.G. Sankaran), 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).
- *An Introduction to Lifetime Data Analysis* (Co-authored with C. Caroni), Birkhäuser, Boston, 2013 (to appear).

Handbooks Authored/Edited

- *Handbook of the Logistic Distribution*, Marcel Dekker, New York, 1992 (601 pages).
- *The Exponential Distribution: Theory, Methods and Applications* (Co-edited with A.P. Basu), Gordon and Breach, Newark, NJ, 1995 (638 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).
- *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).
- *Handbook of Statistics - 16: Order Statistics – I: Theory and Methods* (Co-edited with C.R. Rao), North-Holland, Amsterdam, 1998 (731 pages).
- *Handbook of Statistics - 17: Order Statistics – II: Applications* (Co-edited with C.R. Rao), North-Holland, Amsterdam, 1998 (712 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).
- *Handbook of Tables for Order Statistics from Lognormal Distributions with Applications* (Coauthored with W.W.S. Chen), Kluwer Academic Publishers, Boston, 1999 (868 pages).
- *Handbook of Statistics - 20: Advances in Reliability* (Co-edited with C.R. Rao), North-Holland, Amsterdam, 2001 (837 pages).

- *Handbook of Statistics - 23: Advances in Survival Analysis* (Co-edited with C.R. Rao), North-Holland, Amsterdam, 2004 (771 pages).
- *Handbook of the Logistic Distribution*, Second edition, Taylor & Francis, Philadelphia, 2013 (to appear).

Volumes Edited

- **Encyclopedia of Statistical Sciences (16 Volumes)**, Second edition, John Wiley & Sons, Hoboken, New Jersey, 2006.
- *Recent Advances in Life-Testing and Reliability*, CRC Press, Boca Raton, 1995 (632 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).
- *Advances in Combinatorial Methods and Applications to Probability and Statistics*, Birkhäuser, Boston, 1997 (562 pages).
- *Advances in Statistical Decision Theory and Applications* (Co-edited with S. Panchapakesan), Birkhäuser, Boston, 1997 (448 pages).
- *Scan Statistics and Applications* (Co-edited with J. Glaz), Birkhäuser, Boston, 1999 (324 pages).
- *Advances in Stochastic Simulation Methods* (Co-edited with V.B. Melas and S. Ermakov), Birkhäuser, Boston, 2000 (386 pages).
- *Asymptotic Methods in Probability and Statistics with Applications* (Co-edited with I.A. Ibragimov and V.B. Nevzorov), Birkhäuser, Boston, 2001 (549 pages).
- *Probability and Statistical Models with Applications* (Co-edited with Ch.A. Charalambides and M.V. Koutras), Chapman & Hall, Boca Raton, 2001 (624 pages).
- *Advances on Theoretical and Methodological Aspects of Probability and Statistics*, Taylor & Francis, London, 2002 (528 pages).
- *Advances on Methodological and Applied Aspects of Probability and Statistics*, Taylor & Francis, London, 2002 (620 pages).
- *Goodness-of-Fit Tests and Model Validity* (Co-edited with C. Huber-Carol, M. Nikulin and M. Mesbah), Birkhäuser, Boston, 2002 (504 pages).
- *Statistical Methods and Practice* (Co-edited with N. Kannan and M.R. Srinivasan), Narosa Publishing House, New Delhi, 2003 (363 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).
- *Advances in Ranking and Selection, Multiple Comparisons and Reliability* (Co-edited with N. Kannan and H.N. Nagaraja), Birkhäuser, Boston, 2005 (412 pages).

- *Advances on Models, Characterizations and Applications* (Co-edited with I. G. Bairamov and O. L. Gebizlioglu), Chapman & Hall, Boca Raton, Florida, 2005 (234 pages).
- *Advances in Distribution Theory, Order Statistics, and Inference* (Co-edited with E. Castillo and J. M. Sarabia), Birkhäuser, Boston, 2006 (483 pages).
- *Advances in Statistical Methods for the Health Sciences: Applications to Cancer, AIDS Studies, Genome Sequence Analysis, and Survival Analysis* (Co-edited with J-L. Auget, M. Mesbah and G. Molenberghs), Birkhäuser, Boston, 2007 (540 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 Pranab K. Sen* (Co-edited with E. Pēna and M. J. Silvapulle), Institute of Mathematical Statistics Collections, Volume 1, Beachwood, Ohio, Hayward, 2008 (407 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).
- *Mathematical and Statistical Models and Methods in Reliability* (Co-edited with V. Rykov and M.S. Nikulin), Birkhäuser, Boston, 2010 (457 pages).
- *Methods and Applications of Statistics in the Life and Health Sciences*, John Wiley & Sons, Hoboken, New Jersey, 2010 (986 pages).
- *Methods and Applications of Statistics in Business, Finance, and Management Science*, John Wiley & Sons, Hoboken, New Jersey, 2010 (711 pages).
- *Modern Mathematical Tools and Techniques in Capturing Complexity* (Co-edited with L. Pardo and M.A. Gil), Springer-Verlag, Berlin, 2011 (512 pages).
- *Methods and Applications of Statistics in Engineering, Quality Control, and the Physical Sciences*, John Wiley & Sons, Hoboken, New Jersey, 2011 (750 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 the Atmospheric and Earth Sciences*, John Wiley & Sons, Hoboken, New Jersey, 2013 (362 pages).

Journal Articles Published in 2012

1. 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.
2. 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.
3. On the residual and inactivity times of the components of used coherent systems (with S. Goliforushani and M. Asadi), *Journal of Applied Probability*, **49**, 385-404.

4. 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.
5. 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.
6. Multivariate measures of skewness for the skew-normal distribution (with B. Scarpa), *Journal of Multivariate Analysis*, **104**, 73-87.
7. On the sample ranges from heterogeneous exponential variables (with M. Xu), *Journal of Multivariate Analysis*, **109**, 1-9.
8. A class of correlated weighted Poisson processes (with P. Borges and J. Rodrigues), *Journal of Statistical Planning and Inference*, **142**, 366-375.
9. Concomitants of order statistics from multivariate elliptical distributions (with A. Jamalizadeh), *Journal of Statistical Planning and Inference*, **142**, 397-409.
10. A consistent parameter estimation in the three-parameter lognormal distribution (with H. Nagatsuka), *Journal of Statistical Planning and Inference*, **142**, 2071-2086.
11. 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.
12. A proposed measure of residual life of live components of a coherent system (with M. Asadi), *IEEE Transactions on Reliability*, **61**, 41-49.
13. Multiple-stress model for one-shot device testing data under exponential distribution (with M.H. Ling), *IEEE Transactions on Reliability*, **61**, 809-821.
14. A general purpose approximate goodness-of-fit test for progressively Type-II censored data (with R. Pakyari), *IEEE Transactions on Reliability*, **61**, 238-244.
15. 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.
16. 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.
17. EM algorithm for one-shot device testing under the exponential distribution (with M.H. Ling), *Computational Statistics & Data Analysis*, **56**, 502-509.
18. 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.
19. 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.

20. Left truncated and right censored Weibull data and likelihood inference with an illustration (with D. Mitra), *Computational Statistics & Data Analysis*, **56**, 4011-4025.
21. 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.
22. 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.
23. 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.
24. Stochastic comparisons of largest order statistics from multiple-outlier exponential models (with P. Zhao), *Probability in the Engineering and Informational Sciences*, **26**, 159-182.
25. 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.
26. Parametric inference from system lifetime data under a proportional hazard rate model (with H.K.T. Ng and J. Navarro), *Metrika*, **75**, 367-388.
27. Fisher information in bivariate record values from a sample of fixed size (with M. Amini and J. Ahmadi), *Statistics*, **46**, 23-39.
28. Nonlinear regression in a trivariate elliptical distribution via a linear combination of order statistics (with S.H. Ong, M. Habibi and A. Jamalizadeh), *Statistics*, **46**, 605-619.
29. Exact distribution of the MLEs of the parameters and of the quantiles of two-parameter exponential distribution under hybrid censoring (with A. Childs and B. Chandrasekar), *Statistics*, **46**, 441-458.
30. Asymptotic properties of numbers of observations near sample quantiles (with G. Iliopoulos and A. Dembinska), *Statistics*, **46**, 85-97.
31. Pitman closeness results concerning ranked set sampling (with M. Jafari Jozani and K.F. Davies), *Statistics & Probability Letters*, **82**, 2260-2269.
32. A multivariate discrete Poisson-Lindley distribution: Extensions and actuarial applications (with E. Gomez-Deniz and J.M. Sarabia), *Astin Bulletin*, **42**, 655-678.
33. Bayesian prediction of k-record values based on progressively censored data from exponential distribution (with J. Ahmadi and S.M.T.K. MirMostafaei), *Journal of Statistical Computation and Simulation*, **82**, 51-62.
34. A very flexible hybrid censoring scheme and its Fisher information (with S. Park), *Journal of Statistical Computation and Simulation*, **82**, 41-50.
35. Estimation for the three-parameter inverse Gaussian distribution under progressive Type-II censoring (with P. Basak), *Journal of Statistical Computation and Simulation*, **82**, 1055-1072.
36. The gamma-exponentiated exponential distribution (with M. Ristic), *Journal of Statistical Computation and Simulation*, **82**, 1191-1206.

37. Jacobi and Laguerre polynomial approximations for the distributions of statistics useful in testing for outliers in exponential and gamma samples (with D. Sanjel), *Journal of Statistical Computation and Simulation*, **82**, 463-473.
38. Estimation for the three-parameter gamma distribution based on progressively censored data (with I. Basak), *Statistical Methodology*, **9**, 305-319.
39. Analysis of supersaturated design using entropy prior complexity for binary responses via generalized linear models (with C. Koukouvinos and C. Parpoula), *Statistical Methodology*, **9**, 478-485.
40. Pitman closeness as a criterion for the determination of the optimal progressive censoring scheme (with W. Volterman and K.F. Davies), *Statistical Methodology*, **9**, 563-572.
41. Outer and inner prediction intervals for order statistics intervals based on current records (with J. Ahmadi), *Statistical Papers*, **53**, 789-802.
42. Pitman closeness comparison of best linear unbiased and invariant predictors for exponential distribution in one- and two-sample situations (with K.F. Davies, J.P. Keating and R.L. Mason), *Communications in Statistics – Theory and Methods*, **41**, 1-15.
43. Relations for moments of progressively Type-II censored order statistics from log-logistic distribution with applications to inference (with H.M. Saleh), *Communications in Statistics – Theory and Methods*, **41**, 880-906.
44. One- and two-sample Bayesian prediction intervals based on Type-I hybrid censored data (with A.R. Shafay), *Communications in Statistics – Simulation and Computation*, **41**, 65-88.
45. One- and two-sample Bayesian prediction intervals based on Type-II hybrid censored data (with A.R. Shafay), *Communications in Statistics Theory and Methods*, **41**, 1511-1531.
46. Nonparametric prediction intervals based on ranked set samples (with M. Vock), *Communications in Statistics Theory and Methods*, **41**, 2256-2268.
47. Distribution of linear combinations of unordered and ordered components of an elliptical random vector (with H. Mahmoodian, A. Pourdarvish and A. Jamalizadeh), *Journal of the Korean Statistical Society*, **41**, 257-265.
48. EM algorithm-based likelihood estimation for some cure rate models (with S. Pal), *Journal of Statistical Theory and Practice*, **6**, 698-724.

Editorial Work

Professor Balakrishnan has been extremely active in editorial work. In addition to refereeing work for numerous journals, he is currently serving as:

- **Editor-in-Chief** for *Communications in Statistics*
- **Associate Editor** for *Metrika*
- **Associate Editor** for *Methodology and Computing in Applied Probability*.

In addition, he is presently

- **Editor-in-Chief** for the revised edition (of the 16-volume set) as well as the online edition of *Encyclopedia of Statistical Sciences* published by John Wiley & Sons, Hoboken, New Jersey
- **Editor-in-Chief** for the Series of books on *Statistics for Industry and Technology* published by Birkhäuser, Boston
- **Editor-in-Chief** for the Series of books and monographs on *Statistics* published by Taylor & Francis, Philadelphia.
- **Editorial Board Member** for the Series of books on *Mathematics and Statistics* published by SIAM, Philadelphia.

He had also served in the past as an Managing Editor for *Journal of Statistical Planning and Inference*, and Associate Editor for *Test*, *Journal of Statistical Planning and Inference*, *IEEE Transactions on Reliability*, *Communications in Statistics*, *Naval Research Logistics*, *Computational Statistics & Data Analysis*, *Statistical Methodology*, and *Selected Tables in Mathematical Statistics* for a number of years.

Conferences Organized

Professor Balakrishnan, in addition to organizing numerous sessions in various scientific conferences and meetings, has organized the following International Conferences:

- During June 25-28, 1997, he organized an *International Conference on Combinatorial Methods and Applications to Probability and Statistics* at McMaster University, Canada, for four days. The proceeding volume of this conference was published by Birkhäuser, Boston.
- During October 10-11, 1998, he organized the *IISA 1998 – International Conference* at McMaster University, Canada. The proceedings of this conference was published by Taylor & Francis, London, England.
- He was one of three organizers of an *International Conference on Recent Advances in Probability and Statistics – A Conference in Honor of Theophilos Cacoullous* which was held at Athens, Greece, during June 3-5, 1999. The proceeding volume of this conference was published by Chapman and Hall, Boca Raton.
- He was one of six organizers of an International Conference celebrating the occasion of Professor C.R. Rao turning 80. This conference, entitled *Statistics: Reflections on the Past and Visions for the Future*, took place at the University of Texas at San Antonio during March 16-19, 2000.
- He was one of four organizers of an *International Conference on Goodness-of-fit Tests and Model Validity* which was held at Université de Paris – 6 (Paris, France) during May 29–31, 2000. The proceeding volume of this conference was published by Birkhäuser, Boston.
- He was one of four organizers of an *International Conference on Recent Developments in Probability and Statistics* which was held at University of Madras (Chennai, India) during December 21-22, 2000. The proceeding volume of this conference was published by Narosa Publishing House, New Delhi.
- He was one of four organizers of an *International Symposium on Statistical Methods for the Analysis of Olympic Record Data* which was held at Universite de Bordeaux-2, Bordeaux, France, during September 4-6, 2001.

- He was one of three organizers of an *International Conference on Characterizations, Models and Applications* which was held at Antalya, Turkey, during December 7-9, 2001. The proceeding volume of this conference was published by Chapman & Hall, Boca Raton, Florida.
- He was one of three organizers of an *International Conference on Ranking and Selection, Multiple Comparisons and Reliability with Applications* that was held at Chennai, India, during December 28-30, 2002. The proceeding volume of this conference was published by Birkhäuser, Boston.
- He was one of four organizers of an *International Workshop on Statistical Inference for Semi-parametric Models* which was held at Mount St. Michel, France, during May 15-17, 2003. The proceeding volume of this conference was published by Birkhäuser, Boston.
- He was one of four organizers of an *International Conference on Statistical Inference and Applications* that was held at Almaty, Kazakhstan, during June 9-12, 2003.
- He was one of eight organizers of an *International Conference on the Future of Statistical Theory, Practice and Education* that was held at Hyderabad, India, during December 29, 2004 - January 1, 2005.
- He was one of three organizers of an *International Conference on Distribution Theory, Order Statistics and Inference* that was held at University of Cantabria, Santander, Spain, during June 16-18, 2004. The proceeding volume of this conference was published by Birkhäuser, Boston.
- He was one of four organizers of an *International Conference on Statistical Methods in Health Sciences* that was held at University of Nantes, Nantes, France, during June 23-25, 2004. The proceeding volume of this conference was published by Birkhäuser, Boston.
- He organized an *International Conference on Statistical Distributions and Applications* that was held at Bowling Green State University, Bowling Green, Ohio, USA, during April 15-16, 2005.
- He organized an *International Conference on Ordered Data Analysis* that was held at Bowling Green State University, Bowling Green, Ohio, USA, during April 22-23, 2005.
- He was one of five organizers of the *International Conference on the Future of Statistical Theory, Practice and Education* at Indian School of Business, Hyderabad, India, during December 29, 2004 - January 1, 2005.
- He was one of three organizers of the *Conference on Ordered Statistical Data and Related Topics* at the Ferdowsi University of Mashhad, Mashhad, Iran, during June 15-17, 2006.
- He was one of four organizers of the *International Conference on Mathematical Methods in Reliability* at the Beijing Institute of Technology, Beijing, China, during June 20-24, 2011.
- He was one of four organizers of the *PIMS Workshop on Skewed Models, Copulas and Applications*, Banff, Alberta, Canada, during May 20, 24, 2013.
- He was one of four organizers of an *International Conference on Mathematical Methods in Reliability* at University of Stellenbosch, Stellenbosch, South Africa, during July 1-4, 2013.

- He was one of three organizers of an *International Conference on Multivariate Distributions and Random Matrices* at CIMAT, Guanajuato, Mexico, during September 19-22, 2013.

Throughout his career, he has presented numerous Plenary, Invited as well as Contributed talks at many international conferences and meetings.

Doctoral Students Supervised

In addition to supervising 62 M.Sc. students at McMaster University, Professor Balakrishnan has supervised the following 44 Ph.D. students:

- **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
- **Syantee 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

Honors and Awards Received

- Professor Balakrishnan was elected a *Fellow of the American Statistical Association* in 1995.
- Professor Balakrishnan was elected a *Fellow of the Institute of Mathematical Statistics* in 2006.
- Professor Balakrishnan is an *Elected Member of the International Statistical Institute* since 1992.
- Professor Balakrishnan was elected a *Fellow of the Turkish Statistical Society* in 2003.
- Professor Balakrishnan was the *Distinguished Eugene Lukacs Professor* at Bowling Green State University, Bowling Green, Ohio, USA, during 2005.
- Professor Balakrishnan was the *Santalo Lecturer* at Universidad Complutense de Madrid, Madrid, Spain, during 2006.
- Professor Balakrishnan was elected an *Honorary Member* of the Greek Statistical Institute in 2006.
- Professor Balakrishnan was awarded the *Don Owen Award* by the American Statistical Association in 2008.
- Professor Balakrishnan was awarded the *Valuable Service Award* by the International Indian Statistical Association in 2010.
- In addition to an excellent research career, he has won *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.