

# George Iliopoulos

## Curriculum Vitae

### Personal Information

Name George Iliopoulos  
Year and Place of birth 1966, Athens, Greece  
Affiliation Dept. of Statistics and Insurance Science, University of Piraeus  
Address 80, Karaoli & Dimitriou str., 18534, Piraeus, Greece  
Phone number: +30 210 4142406  
*e-mail:* geh@unipi.gr

### Education

1993: Diploma in Mathematics, Department of Mathematics, University of Patras  
1999: Ph.D. in Statistics, Department of Mathematics, University of Patras  
Ph.D. Thesis: “*Point and interval estimation for certain scale parameters*” (supervisor Professor S. Kourouklis)

### Academic positions

10/1999 – 05/2001: Temporary teaching staff, Department of Farm Organization and Management, University of Ioannina  
06/2001 – 12/2002: Lecturer, Department of Mathematics, University of the Aegean  
01/2003 – 02/2010: Assistant Professor, Department of Statistics and Insurance Science, University of Piraeus  
03/2010 – Associate Professor, Department of Statistics and Insurance Science, University of Piraeus

### Teaching experience

#### Undergraduate level

- *University of Piraeus, Dept. of Statistics and Insurance Science*  
Statistics I: Estimation, Simulation, Bayesian Statistics, Analysis of Variance
- *University of Piraeus, Dept. of Technology Education and Digital Systems*  
Statistics I, Statistics II, Probability and Statistics
- *University of Cyprus, Dept. of Mathematics and Statistics*  
Statistical Methods
- *University of the Aegean, Dept. of Mathematics*  
Probability, Statistics
- *University of Ioannina, Dept. of Farm Organization and Management*  
Probability and Statistics, Business Statistics, Mathematics II
- *Technological Educational Institute of Patras, Dept. of Speech and Language Therapy*  
Introduction to Computers and Statistics, Statistics for Behavioral Sciences
- *Technological Educational Institute of Patras, Dept. of Business Planning and Information Systems*  
Advanced Business Statistics

- *Technological Educational Institute of Patras, Dept. of Business Administration*  
Financial Mathematics
- *Hellenic Open University, School of Business Administration*  
Quantitative Methods

#### Postgraduate level

- *University of Piraeus, Department of Statistics and Insurance Science, Postgraduate programme in Applied Statistics*  
Applied Multivariate Analysis, Categorical Data Analysis, Statistical Packages, Bayesian Inference, Special Topics in Data Analysis
- *University of the Aegean, Dept. of Mathematics, Postgraduate programme in Mathematical Modeling in Physical Sciences and New Technologies*  
Probability, Applied Statistics
- *University of Patras, Dept. of Mathematics and Dept. of Computer Science and Computer Engineering, Postgraduate programme in Mathematics of Computation and Decision Making*  
Statistics I, Statistics II

#### Supervision of Ph.D. students

- Malefaki Sonia (2008). Simulated weighted samples as jump processes: A different perspective. Ph.D. dissertation, Department of Statistics and Insurance Science, University of Piraeus.
- Papastamoulis Panagiotis (2010). Solving the label switching problem in Bayesian analysis of mixtures of distributions. Ph.D. dissertation, Department of Statistics and Insurance Science, University of Piraeus.

### **Publications**

#### Publications in refereed journals

1. Iliopoulos, G. and Kourouklis, S. (1998). On improved interval estimation for the generalized variance. *Journal of Statistical Planning and Inference*, **66**, 305–320.
2. Iliopoulos, G. and Kourouklis, S. (1999). Improving on the best affine equivariant estimator of the ratio of the generalized variances. *Journal of Multivariate Analysis*, **68**, 176–192.
3. Iliopoulos, G. and Kourouklis, S. (2000). Interval estimation for the ratio of scale parameters and for ordered scale parameters. *Statistics & Decisions*, **18**, 169–184.
4. Iliopoulos, G. (2000). A note on decision theoretic estimation of ordered parameters. *Statistics and Probability Letters*, **50**, 33–38.
5. Iliopoulos, G. (2001). Decision theoretic estimation of the ratio of variances in a bivariate normal distribution. *Annals of the Institute of Statistical Mathematics*, **53**, 436–446.

6. Meintanis, S.G. and Iliopoulos, G. (2003). Tests of fit for the Rayleigh distribution based on the empirical Laplace transform. *Annals of the Institute of Statistical Mathematics*, **55**, 137–151.
7. Iliopoulos, G. (2003). Some new estimators of the binomial parameter  $n$ . *Communications in Statistics - Theory and Methods*, **32**, 1361–1372.
8. Iliopoulos, G. and Karlis, D. (2003). Simulation from the Bessel distribution with applications. *Journal of Statistical Computation and Simulation*, **73**, 491–506.
9. Meintanis, S.G. and Iliopoulos, G. (2003). Characterizations of the exponential distribution based on certain properties of its characteristic function. *Kybernetika*, **39**, 295–298.
10. Kateri, M. and Iliopoulos, G. (2003). On collapsing categories in two-way contingency tables. *Statistics*, **37**, 443–455.
11. Iliopoulos, G. (2003). Estimation of parametric function in Downton's bivariate exponential distribution. *Journal of Statistical Planning and Inference*, **117**, 169–184.
12. Iliopoulos, G., Karlis, D. and Ntzoufras, I. (2005). Bayesian estimation in Kibble's bivariate gamma distribution. *The Canadian Journal of Statistics*, **33**, 571–589.
13. Iliopoulos, G., Kateri, M. and Ntzoufras, I. (2007). Bayesian estimation of unrestricted and order-restricted association models for a two-way contingency table. *Computational Statistics and Data Analysis*, **51**, 4643–4655.
14. Malefaki, S. and Iliopoulos, G. (2007). Simulating from a multinomial distribution with large number of categories. *Computational Statistics and Data Analysis*, **51**, 5471–5476.
15. Meintanis, S.G. and Iliopoulos, G. (2008). Fourier methods for testing multivariate independence. *Computational Statistics and Data Analysis*, **52**, 1884–1895.
16. Malefaki, S. and Iliopoulos, G. (2008). On convergence of properly weighted samples to the target distribution. *Journal of Statistical Planning and Inference*, **138**, 1210–1225.
17. Iliopoulos, G. (2008). UMVU estimation of the ratio of powers of normal generalized variances under correlation. *Journal of Multivariate Analysis*, **99**, 1051–1069.
18. Davidov, O. and Iliopoulos, G. (2009). On the existence and uniqueness of the NPMLE in biased sampling models. *Journal of Statistical Planning and Inference*, **139**, 176–183.
19. Papastamoulis, P. and Iliopoulos, G. (2009). Reversible Jump MCMC in mixtures of normal distributions with the same component means. *Computational Statistics and Data Analysis*, **53**, 900–911.
20. Balakrishnan, N. and Iliopoulos, G. (2009). Stochastic monotonicity of the MLE of exponential mean under different censoring schemes. *Annals of the Institute of Statistical Mathematics*, **61**, 753–772.
21. Meintanis, S. and Iliopoulos, G. (2009). The empirical moment process in testing for the generalized two-sided power distribution. *Journal of Statistical Theory and Practice*, **3**, 577–586.
22. Malefaki, S. and Iliopoulos, G. (2009). Simulation from a target distribution based on discretization and weighting. *Communications in Statistics - Simulation and Computation*, **38**, 829–845.
23. Iliopoulos, G. and Balakrishnan, N. (2009). Conditional independence of blocked ordered data. *Statistics and Probability Letters*, **79**, 1008–1015.

24. Iliopoulos, G, Kateri, M. and Ntzoufras, I. (2009). Bayesian model comparison for the order restricted RC association model. *Psychometrika*, **74**, 561–587.
25. Balakrishnan, N., Iliopoulos, G., Keating, J.P. and Mason, R.L. (2009). Pitman closeness of sample median to population median. *Statistics and Probability Letters*, **79**, 1759–1766.
26. Davidov, O. and Iliopoulos, G. (2010). A note on an iterative algorithm for nonparametric estimation in biased sampling models. *Computational Statistics and Data Analysis*, **54**, 620–624.
27. Balakrishnan, N. and Iliopoulos, G. (2010). Stochastic monotonicity of the MLEs of parameters in exponential simple step-stress models under Type-I and Type-II censoring. *Metrika*, **72**, 89–109.
28. Davidov, O., Fokianos, K. and Iliopoulos, G. (2010). Order restricted semiparametric inference for the power bias model. *Biometrics*, **66**, 549–557.
29. Cramer, E. and Iliopoulos, G. (2010). Adaptive progressive type-II censoring. *Test*, **19**, 342–358.
30. Papastamoulis, P. and Iliopoulos, G. (2010). An artificial allocations based solution to the label switching problem in Bayesian analysis of mixtures of distributions. *Journal of Computational and Graphical Statistics*, **19**, 313–331.
31. Iliopoulos, G. and Balakrishnan, N. (2010). An odd behaviour of the sample median from odd sample sizes. *Statistical Methodology*, **7**, 678–686.
32. Iliopoulos, G. and Balakrishnan, N. (2011). Exact likelihood inference for Laplace distribution based on Type-II censored samples. *Journal of Statistical Planning and Inference*, **141**, 1224–1239.
33. Balakrishnan, N., Han D. and Iliopoulos, G. (2011). Exact inference for progressively type-I censored exponential failure data. *Metrika*, **73**, 335–358.
34. Iliopoulos, G., Dembińska, A. and Balakrishnan, N. (2012). Asymptotic properties of numbers of observations near sample quantiles. *Statistics*, **46**, 85–97.
35. Dembińska, A. and Iliopoulos, G. (2012). On the asymptotics of numbers of observations in random regions determined by order statistics. *Journal of Multivariate Analysis*, **103**, 151–160.
36. Bobotas, P., Iliopoulos, G. and Kourouklis, S. (2012). Estimating the ratio of two scale parameters: A simple approach. *Annals of the Institute of Statistical Mathematics*, **64**, 343–357.
37. Davidov, O. and Iliopoulos, G. (2012). Estimating a distribution function subject to a stochastic order restriction: a comparative study. *Journal of Nonparametric Statistics*, **24**, 923–933.
38. Papastamoulis, P. and Iliopoulos, G. (2013). On the convergence rate of random permutation sampler and ECR algorithm in missing data models. *Methodology and Computing in Applied Probability*, **15**, 293–304.
39. Iliopoulos, G. and Malefaki, S. (2013). Variance reduction of estimators arising from Metropolis–Hastings algorithms. *Statistics and Computing*, **23**, 577–587.

40. Davidov, O. and Iliopoulos, G. (2013). Convergence of Luo and Tsai's iterative algorithm for estimation in proportional likelihood ratio models. *Biometrika*, **100**, 778–780.
41. Iliopoulos, G. and MirMostafae S.M.T.K. Exact prediction intervals for order statistics from the Laplace distribution based on the maximum likelihood estimators. *Statistics* (accepted; doi:10.1080/02331888.2013.766795)
42. Davidov, O., Fokianos, K. and Iliopoulos, G. Semiparametric inference for the two-way layout under order restrictions. *Scandinavian Journal of Statistics* (accepted; doi:10.1111/sjos.12052)

#### Publications in edited volumes

43. Malefaki, S. and Iliopoulos, G. (2007). An application of the theory of semi-Markov processes in simulation. In *Recent Advances in Stochastic Modelling and Data Analysis*, 213–220. C.H. Skiadas (ed.), World Scientific.

#### Applications

44. Zolota, V., Batistatou, A., Tsamandas, A.C., Iliopoulos, G., Scopa, C.D. and Bonikos, D.S. (2002). Immunohistochemical expression of TGF-beta 1, p21WAF1, p53, Ki67, and angiogenesis in gastric carcinomas — A clinicopathologic study. *International Journal of Gastrointestinal Cancer*, **32**, 83–89.

### **Conference presentations**

#### Greek conferences

- 8<sup>th</sup> Greek Statistical Conference (Delfi, 9–11 June 1995)  
Estimation of the generalized variance and of the ratio of generalized variances (with S. Kourouklis)
- 11<sup>th</sup> Greek Statistical Conference (Hania, 5–8 June 1998)  
Confidence intervals for ordered scale parameters (with S. Kourouklis)
- 12<sup>th</sup> Greek Statistical Conference (Spetses, 15–18 April 1999)  
Estimation of the ratio of the variances in a bivariate normal distribution
- 13<sup>th</sup> Greek Statistical Conference (Florina, 3–6 May 2000)  
Estimation of location and scale parameters which are bounded by nuisance parameters
- 14<sup>th</sup> Greek Statistical Conference (Skiathos, 18–21 April 2001)  
Estimation of the ratio of means in a bivariate exponential distribution.  
Collapsing rows or/and columns in two-way contingency tables (with M. Kateri)
- 15<sup>th</sup> Greek Statistical Conference (Ioannina, 8–11 May 2002)  
Simulations from the Bessel distribution with applications in MCMC (with D. Karlis)
- 18<sup>th</sup> Greek Statistical Conference (Rhodes, 8–11 April 2005)  
On convergence of properly weighed samples to the target distribution (with S. Malefaki)
- 19<sup>th</sup> Greek Statistical Conference (Kastoria, 26–29 April 2006)  
Discrete distributions related to zonal polynomials  
Simulation from the target distribution via discretization and weighting (with S. Malefaki)

- 20<sup>th</sup> *Greek Statistical Conference* (Nicosia, 11–15 April 2007)
  - Bayesian score merging for the order restricted RC association model (with M. Kateri and I. Ntzoufras)
  - An attempt for improving Metropolis–Hastings estimators via estimation of the weights (with S. Malefaki)
  - Reversible jump MCMC in mixtures of normal distributions with common means (with P. Papastamoulis)
- 21<sup>th</sup> *Greek Statistical Conference* (Samos, 29 April–3 May 2008)
  - The conditional distribution of  $X$  given  $X = Y$  in the case where  $X, Y$  are independent continuous random variables. Excuse me?
  - The label switching phenomenon in mixtures of distributions or multivariate regressions (with P. Papastamoulis)
- 22<sup>th</sup> *Greek Statistical Conference* (Chania, 22–26 April 2009)
  - Semiparametric inference under order restrictions for the density ratio model (with O. Davidov and K. Fokianos)
- 23<sup>th</sup> *Greek Statistical Conference* (Veroia, 7–11 April 2010)
  - Asymptotic distribution of number observations near central order statistics (with A. Dembińska and N. Balakrishnan)
- 24<sup>th</sup> *Greek Statistical Conference* (Patras, 27–30 April 2011)
  - Estimation of functionals of semi-Markov processes limit distribution based on modeling the mean sojourn times (with S. Malefaki)
- 25<sup>th</sup> *Greek Statistical Conference* (Volos, 18–21 April 2012)
  - The three monotonicities lemma and its applications in maximum likelihood estimation of the exponential distribution's mean
- 26<sup>th</sup> *Greek Statistical Conference* (Piraeus, 8–11 May 2013)
  - Double adjustment estimators for the ratio of scale parameters (with P. Bobotas and S. Kourouklis)

#### International conferences

1. 3<sup>rd</sup> *World Conference in Computational Statistics and Data Analysis* (Limassol, 28–31 October 2005)
  - Bayesian estimation of the ordered RC association model for a two-way contingency table (with M. Kateri and I. Ntzoufras)
2. 8<sup>th</sup> *Valencia/ISBA World Meeting on Bayesian Statistics* (Benidorm, Spain, 1–6 June 2006)
  - Bayesian analysis of order-restricted association models for two-way contingency tables (poster) (with M. Kateri and I. Ntzoufras)
3. *Ordered Statistical Data and Inequalities* (Amman, Jordan, 12–14 June 2007)
  - Stochastic monotonicity of the MLE of exponential mean under different censoring schemes (with N. Balakrishnan)
4. *Ordered Statistical Data and its Applications* (Aachen, Germany, 7–8 March 2008)

- A simple step-stress model with hybrid censoring at both levels of stress (with N. Balakrishnan)
5. 6<sup>th</sup> *Petersburg Workshop on Simulation* (St. Petersburg, Russia, 28 June–4 July 2009)  
Adaptive progressive type-II censoring (with E. Cramer)
  6. 9<sup>th</sup> *International Conference on Ordered Statistical Data and their Applications* (Zagazig, Egypt, 11–13 July 2010)  
Exact likelihood inference for the parameters of the Laplace distribution (with N. Balakrishnan)
  7. *Greco Italian Meeting on Statistics* (Porto San Paolo, Sardinia, Italy, 23–25 September 2010)  
Variance reduction of Metropolis-Hastings estimators via estimation of the weights (with S. Malefaki)
  8. *Tenth International Conference on Ordered Statistical Data and their Applications* (Murcia, Spain, 23–25 May 2012)  
Adaptive progressive type-I censoring

## **Lectures**

- University of the Aegean, Dept. of Mathematics (October 2000) Improved estimation of scale parameters.
- University of the Aegean, Dept. of Mathematics (December 2003) Applications of Kibble's bivariate gamma distribution.
- MacMaster University, Dept. of Mathematics (August 2005) Weighted sequences as jump processes: A different perspective.
- University of Cyprus, Dept. of Mathematics and Statistics (September 2006) On convergence of properly weighted samples to the target distribution.
- University of Cyprus, Dept. of Mathematics and Statistics (October 2006) Bayesian inference for the ordered RC association model.
- Athens University of Economics and Business, Dept. of Statistics (June 2007) Stochastic monotonicity of the MLE of exponential mean under different censoring schemes.
- University of the Aegean, Dept. of Statistics and Actuarial-Financial Mathematics (May 2008) Censoring schemes for life testing
- MacMaster University, Department of Mathematics and Statistics (July 2008) On conditional independence of blocked ordered data.
- University of Patras, Department of Mathematics (March 2009) Semiparametric inference under order restrictions for density ratio models.
- Athens University of Economics and Business, Dept. of Statistics (November 2010) Testing for likelihood ratio ordering via the density ratio model.
- MacMaster University, Department of Mathematics and Statistics (July 2011) A simple way to improve estimators of ratios of scale parameters.
- University of Athens, Department of Mathematics (March 2013) Density ratio models and tests for stochastically ordered distributions

- University of Haifa, Department of Statistics (October 2013) Double adjustment estimators for the ratio of scale parameters.
- RWTH Aachen University (February 2014) On exact confidence intervals for the exponential scale parameter under sampling schemes with time constraints

### **Reviews for**

- *Annals of the Institute of Statistical Mathematics, Applied Mathematics-A Journal of Chinese Universities, Communications in Statistics, Computational Statistics, Computational Statistics and Data Analysis, European Journal of Operational Research, Information Sciences, International Journal of Applied Mathematics and Statistics, Journal of Applied Probability and Statistics, Journal of Computational and Graphical Statistics, Journal of Multivariate Analysis, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Journal of Statistical Theory and Practice, Lifetime Data Analysis, Metrika, Metron, Model Assisted Statistics and Applications, Naval Research Logistics, Physica A, Statistical Methodology, Statistical Papers, Statistics, Statistics and Computing, Statistics and Operations Research Transactions, Statistics and Probability Letters, The American Statistician, Test*

### **Editorial Positions**

- Associate editor for *Communications in Statistics*.
- Associate editor for *Journal of Advanced Research in Statistics and Probability*.

### **Books**

*Basic Methods of Estimation* (2006). A. Stamoulis eds. (in Greek)

*Basic Methods of Estimation*, 2<sup>nd</sup> ed. (2013). A. Stamoulis eds. (in Greek)



## **Citations list**

1. Iliopoulos, G. and Kourouklis, S. (1998). On improved interval estimation for the generalized variance. *Journal of Statistical Planning and Inference*, **66**, 305–320.
  - 1 Hoffmann, K. (2000). Stein estimation — A review. *Statistical Papers*, **41**, 127–158.
  - 2 Kokonendji, C.C. and Pommeret, D. (2001). Estimateurs de la variance généralisée pour des familles exponentielles non gaussiennes. *Comptes Rendus de l'Académie des Sciences - Série I*, **332**, 351–356.
  - 3 Kokonendji, C.C. (2003). On UMVU estimator of the generalized variance for natural exponential families. *Monografías del Seminario Matemático García de Galdeano*, **27**, 353–360.
  - 4 Pommeret, D. (2004). Quelques contributions à l'étude statistique des lois. Habilitation à Diriger des Recherches, University of Rennes II.
  - 5 Wilcox, R.R. (2006). Comparing robust generalized variances and comments on efficiency. *Statistical Methodology*, **3**, 211–223.
  - 6 Kokonendji, C.C. and Pommeret, D. (2007). Comparing UMVU and ML estimator of the generalized variance for natural exponential families. *Statistics*, **41**, 547–558.
  - 7 Sun, X., Zhou, X. and Wang, J. (2008). Confidence intervals for the scale parameter of exponential distribution based on Type II doubly censored samples. *Journal of Statistical Planning and Inference*, **138**, 2045–2058.
  - 8 Jafari, A.A. (2012). Inferences on the ratio of two generalized variances: independent and correlated cases. *Statistical Methods & Applications*, **21**, 297–314.
2. Iliopoulos, G. and Kourouklis, S. (1999). Improving on the best affine equivariant estimator of the ratio of the generalized variances. *Journal of Multivariate Analysis*, **68**, 176–192.
  - 1 Petropoulos, C. (2002). Estimation of scale parameters and of quantiles. Ph.D. dissertation, University of Patras.
  - 2 Garcia-Diaz, J.C. (2007). The 'effective variance' control chart for monitoring the dispersion process with missing data. *European Journal of Industrial Engineering*, **1**, 40–55.
  - 3 Bobotas, P. (2010). Strawderman-type estimators of scale parameters. Ph.D. dissertation, University of Patras.
  - 4 Jafari, A.A. (2012). Inferences on the ratio of two generalized variances: independent and correlated cases. *Statistical Methods & Applications*, **21**, 297–314.
  - 5 Kubokawa, T. (2012). Minimax estimation of linear combinations of restricted location parameters. In *Contemporary Developments in Bayesian Analysis and Statistical Decision Theory: A Festschrift for William E. Strawderman*, D. Fourdrinier, É. Marchand and A.L. Rukhin (eds.), 24–41.
  - 6 Kubokawa, T. (2014?). General dominance properties of double shrinkage estimators for ratio of positive parameters. *Journal of Statistical Planning and Inference* (to appear).
3. Iliopoulos, G. and Kourouklis, S. (2000). Interval estimation for the ratio of scale parameters and for ordered scale parameters. *Statistics & Decisions*, **18**, 169–184.
  - 1 Marchand, E. and Strawderman, W.E. (2004). Estimation in restricted parameter spaces: A review. In *IMS, Lecture Notes-Monograph Series*, A. DasGupta (ed.), **45**, 21–44.
  - 2 Silvapulle, M.J. and Sen, P.K. (2005). *Constrained statistical inference: inequality, order, and shape restrictions*. John Wiley & Sons, Inc., Hoboken, New Jersey.
  - 3 Oono, Y. and Shinozaki, N. (2006). Estimation of error variance in ANOVA model and order restricted scale parameters. *Annals of the Institute of Statistical Mathematics*, **58**, 739–756.
4. Iliopoulos, G. (2000). A note on decision theoretic estimation of ordered parameters. *Statistics and Probability Letters*, **50**, 33–38.
  - 1 Gunn, L.H. (2004). Bayesian order restricted methods with biomedical applications. Ph.D. dissertation, Duke University.
  - 2 Marchand, E. and Strawderman, W.E. (2004). Estimation in restricted parameter spaces: A review. In *IMS, Lecture Notes-Monograph Series*, A. DasGupta (ed.), **45**, 21–44.
  - 3 Kumar, S., Kumar, A. and Tripathi, Y.M. (2005). A note on the Pitman estimator of ordered normal means when the variances are unequal. *Communications in Statistics - Theory and Methods*, **34**, 2115–2122.

- 4 Kumar, S. and Tripathi, Y.M. (2005). Estimating components of a normal mean vector under order restrictions. *International Journal of Applied Mathematics & Statistics*, **3**, 82–96.
  - 5 Kumar, S. and Tripathi, Y.M. (2005). On estimating the middle of three ordered normal means with applications to ecology. *International Journal of Ecological Economics & Statistics*, **3**, 62–71.
  - 6 Kumar, S., Tripathi, Y.M. and Misra, N. (2005). James–Stein type estimators for ordered normal means. *Journal of Statistical Computation and Simulation*, **75**, 501–511.
  - 7 van Eeden, C. (2006). *Restricted parameter space estimation problems*. Lecture Notes in Statistics. Springer.
  - 8 Huang, H.H., Liu, Y.H. and Huang, W.T. (2009). Marginal maximum likelihood estimators for ranked means in exponential families. *International Journal of Information and Management Sciences*, **20**, 469–489.
5. Iliopoulos, G. (2001). Decision theoretic estimation of the ratio of variances in a bivariate normal distribution. *Annals of the Institute of Statistical Mathematics*, **53**, 436–446.
    - 1 Balakrishnan, N. and Lai, C.D. (2009). *Continuous Bivariate Distributions*. Springer.
    - 2 Jafari, A.A. (2012). Inferences on the ratio of two generalized variances: independent and correlated cases. *Statistical Methods & Applications*, **21**, 297–314.
  6. Meintanis, S.G. and Iliopoulos, G. (2003). Tests of fit for the Rayleigh distribution based on the empirical Laplace transform. *Annals of the Institute of Statistical Mathematics*, **55**, 137–151.
    - 1 Afify, E.E. (2003). Comparison of estimators of parameters for the Rayleigh distribution. *Interstat*, June 2003.
    - 2 Abd-Elfattah, A.M., Hassan, A.S. and Ziedan, D.M. (2006). Efficiency of Bayes estimator for Rayleigh distribution. *Interstat*, July 2006.
    - 3 Kallioras A.G., Koutrouvelis I.A. and Canavos G.C. (2006). Testing the fit of gamma distributions using the empirical moment generating function. *Communications in Statistics - Theory and Methods*, **35**, 527–540.
    - 4 Morris, K. and Szyal, D. (2008). Some  $U$ -statistics in goodness-of-fit tests derived from characterizations via record values. *International Journal of Pure and Applied Mathematics*, **46**, 339–414.
    - 5 Best, D.J., Rayner, J.C.W. and Thas, O. (2010). Easily applied tests of fit for the Rayleigh distribution. *Sankhyā B*, **72**, 254–263.
    - 6 Kitidamrongsuk, P. (2010). Discriminating between the extended exponential geometric distribution and the gamma distribution. Ph.D. dissertation, Assumption University of Thailand.
  7. Iliopoulos, G. (2003). Some new estimators of the binomial parameter  $n$ . *Communications in Statistics - Theory and Methods*, **32**, 1361–1372.
    - 1 Semkow, T.M. (2007). Bayesian inference from the binomial and Poisson processes for multiple sampling. *ACS Symposium Series*, **945**, 335–356.
    - 2 Bayoud, H.A. (2011). Bayes and empirical Bayes estimation of the parameter  $n$  in a binomial distribution. *Communications in Statistics-Simulation and Computation*, **40**, 1422–1433.
  8. Iliopoulos, G. and Karlis, D. (2003). Simulation from the Bessel distribution with applications. *Journal of Statistical Computation and Simulation*, **73**, 491–506.
    - 1 de Abreu, G.T.F. (2008). On the generation of Tikhonov variates. *IEEE Transactions on Communications*, **56**, 1157–1168.
    - 2 Kim, K.K. (2008). Affine processes in Finance — Numerical approximation, simulation and model properties. Ph.D. dissertation, Columbia University.
    - 3 Balakrishnan, N. and Lai, C.D. (2009). *Continuous Bivariate Distributions*. Springer.
    - 4 Glasserman, P. and Kim, K. (2011). Gamma expansion of the Heston stochastic volatility model. *Finance and Stochastics*, **15**, 267–296.
  9. Meintanis, S.G. and Iliopoulos, G. (2003). Characterizations of the exponential distribution based on certain properties of its characteristic function. *Kybernetika*, **39**, 295–298.
    - 1 Maiti, S.S. and Biswas, A. (2007). A new characterization of geometric distribution. *Kybernetika*, **43**, 97–102.

10. Kateri, M. and Iliopoulos, G. (2003). On collapsing categories in two-way contingency tables. *Statistics*, **37**, 443–455.
  - 1 Poletto, F.Z. (2006). Análize de dados categorizados com omissão. Ph.D. dissertation, University of São Paulo.
  - 2 Magnussen, S. (2007). A method for estimation of a land-cover change matrix from error-prone unit-level observations. *Canadian Journal of Forest Research*, **37**, 1505–1517.
  - 3 Tarantola, C., Consonni, G. and Dellaportas, P. (2008). Bayesian clustering for row effects models. *Journal of Statistical Planning and Inference*, **138**, 2223–2235.
  - 4 Wong, R.S.K. (2010). *Association Models (Quantitative Applications in the Social Sciences)*. Sage Publications, Inc.
  - 5 Oh, M.-S. (2014). Bayesian test on equality of score parameters in the order restricted RC association model. *Computational Statistics and Data Analysis*, **72**, 147–157.
11. Iliopoulos, G. (2003). Estimation of parametric function in Downton’s bivariate exponential distribution. *Journal of Statistical Planning and Inference*, **117**, 169–184.
  - 1 Lefebvre, M. (2004). A bimodal model for the high values of a river flow. *Canadian Journal of Civil Engineering*, **31**, 473–477.
  - 2 Brusset, X. and Temme, N.M. (2007). Optimizing an objective function under a bivariate probability model. *European Journal of Operational Research*, **179**, 444–458.
  - 3 Hatjispyros, S.J., Nicolieris, T. and Walker, S.G. (2008). Bivariate prior distributions via branching exchangeable sequences. *Journal of Statistical Planning and Inference*, **138**, 1799–1816.
  - 4 Al-Saleh, M.F. and Diab, Y.A. (2009). Estimation of the parameters of Downton’s bivariate exponential distribution using ranked set sampling scheme. *Journal of Statistical Planning and Inference*, **139**, 277–286.
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