

PUBLICATIONS

(I. Papers in Refereed Journals - in reverse chronological order)

1. " Meta analysis of exponential lifetime data from type-I hybrid censored samples", (with K. Prajapat, S. Mondal and D. Kundu) *Communications in Statistics - Theory and Methods* (to appear).
2. "Order restricted inference for a multiple step-stress model with long-term survivors for a general family of distributions", (with A. Pal and D. Kundu), *Applied Stochastic Models in Business and Industry* (to appear).
3. "Bayesian Sampling Plan for the Exponential Distribution with Generalized Type - II Hybrid Censoring Scheme", (with D. Prajapati and D. Kundu), *Communications in Statistics - Simulation and Computation* (to appear), <https://doi.org/10.1080/03610918.2020.1861293>
4. "A consistent method of estimation for three-parameter generalized exponential distribution", (with K. Prajapat and D. Kundu), *Communications in Statistics - Simulation and Computation* (to appear), <https://doi.org/10.1080/03610918.2021.1908557>
5. "An optimal Bayesian sampling plan for two-parameter exponential distribution under Type-I hybrid censoring", (with K. Prajapat, A. Koley and D. Kundu), *Sankhya Ser. A* (to appear), <https://doi.org/10.1007/s13171-021-00263-2>
6. "Optimal Bayesian Sampling Plan for Competing Risks Data", (with D. Prajapati, D. Kundu and A. Pal), *Journal of Statistical Computation and Simulation* (to appear), <https://doi.org/10.1080/00949655.2022.2120993>
7. "Bayesian Sampling Plan for the Exponential Distribution with Generalized Type - I Hybrid Censoring Scheme", (with D. Prajapati and D. Kundu), *Journal of Statistical Theory and Practice*, Vol. 17 (1), Article no. 5, 2023.
8. "Order restricted classical inference of a Weibull multiple step-stress model", (with A. Pal and D. Kundu), *Journal of Applied Statistics*, Vol. 48 (4), pp. 623 - 645, 2021.
9. "A simple step-stress model for Lehmann family of distributions", (with A. Pal, D. Samanta and D. Kundu), *Advances in Statistics - Theory and Applications: Honoring the Contributions of Barry C. Arnold in Statistical Science*, Eds. Indranil Ghosh, Hon Keung Tony Ng and N. Balakrishnan, Springer, pp. 315 - 343, 2021.
10. "Bayesian order restricted inference of a Weibull multi-step step-stress model", (with A. Pal and D. Kundu), *Journal of Statistical Theory and*

Practice, Vol. 15 (1), Article no. 21, 2021.

11. "A new decision theoretic sampling plan for exponential distribution under type-I censoring", (with D. Prajapati and D. Kundu), *Communications in Statistics - Simulation and Computation*, Vol. 49 (2), pp. 453 - 471, 2020.

12. "A new decision theoretic sampling plan for type-I and type-I hybrid censored samples from the exponential distribution", (with D. Prajapati and D. Kundu), *Sankhya Ser. B*, Vol. 81, pp. 251 – 288, 2019.

13. "Order estimation of 2-dimensional complex superimposed exponential signal model using Exponentially Embedded Family (EEF) rule: Large sample consistency properties", (with A. Porwal and A. Mitra), *Multidimensional Systems and Signal Processing*, Vol. 30 (3), pp. 1293 – 1308, 2019.

14. "Decision theoretic sampling plan for one-parameter exponential distribution under Type-I and Type-I Hybrid censoring schemes", (with D Prajapati and D Kundu), *Statistical Quality Technologies: Theory and Practice* (eds. Yuhlong Lio, H K Tony Ng, Tzong-Ru Tsai, Ding-Geng Chen), Springer, New York, pp. 183 – 210, 2019.

15. "Estimating the order of multiple sinusoids model using exponentially embedded family rule: Large sample consistency", (with S. Agrawal and A. Mitra), *Signal Processing*, Vol. 147, pp. 54-59, 2018.

16. "Simultaneous estimation of number of signals and signal parameters of superimposed sinusoidal model: a robust sequential bivariate m - periodogram approach", (with A. Mitra and S. Bose), *Communications in Statistics - Simulation and Computation*, Vol. 46, Issue 4, pp. 2654 - 2677, 2017.

17. "Order restricted Bayesian inference for exponential simple step-stress model", (with D. Samanta, A. Ganguly and D. Kundu), *Communications in Statistics - Simulation and Computation*, Vol. 46, Issue 2, pp. 1113 - 1135, 2017.

18. "Consistency of m -estimators of non-linear signal processing models", (with K. Mahata and A. Mitra), *Statistical Methodology*, Vol. 28, pp. 18–36, 2016.

19. "Estimating the order of sinusoidal models using the adaptively penalized likelihood approach: Large sample consistency properties", (with K. Surana, A. Mitra and P. Stoica), *Signal Processing*, Vol. 128, pp. 204 - 211, 2016.

20. "Bayesian analysis of simple step-stress model under Weibull

distribution”, (with A. Ganguly and D. Kundu), *IEEE Transactions on Reliability*, Vol. 64, No. 1, pp. 473 - 485, 2015.

21. "M-estimator-based robust estimation of the number of components of a superimposed sinusoidal signal model" (with A. Mitra), *Journal of Applied Statistics*, Vol. 41, Issue 4, pp. 853 - 878, 2014.

22. "Early warning prediction system for high inflation: an elitist neuro-genetic network model for the Indian economy" (with Erum), *Neural Computing and Applications*, Vol. 22, Suppl. 1, pp. S447-S462, 2013.

23. "Bayesian analysis of different hybrid and progressive life tests" (with D. Kundu, D. Samanta and A. Ganguly), *Communications in Statistics - Simulation and Computation*, Vol. 42 (09), pp. 2160 - 2173, 2013.

24. "On simple step-stress model for two-parameter exponential distribution" (with A. Ganguly, D. Samanta and D. Kundu), *Statistical Methodology*, Vol. 15, pp. 95 -114, 2013.

25. "Exact inference for two-parameter exponential distribution under type-II hybrid censoring" (with A. Ganguly, D. Samanta and D. Kundu), *Journal of Statistical Planning and Inference*, Vol. 142 (3), pp. 613 - 625, 2012.

26. "A genetic algorithm based technique for computing non-linear least squares estimates of parameters of sum of exponential model" (with A. Mitra), *Expert Systems with Applications*, Vol. 39 (7), pp. 6370 - 6379, 2012.

27. "Genetic Algorithm and M-estimator based robust sequential estimation of parameters of nonlinear sinusoidal signals" (with A. Mitra and D. Kundu), *Communications in Nonlinear Sciences and Numerical Simulations*, Vol. 16 (7), pp. 2796 - 2809, 2011.

28. "A wavelet filtering based estimation of output gap" (with V. Maheswari and A. Mitra), *Applied Mathematics and Computations*, Vol. 218 (7), pp. 3710 - 3722, 2011.

29. "Studying impact of policy reforms on industrial development in India with self-organizing maps", *Applied Artificial Intelligence*, Vol. 22 (9), pp. 870-895, 2008.

30. "Analysis of left censored data from the generalized exponential distribution" (with D. Kundu), *Journal of Statistical Computation and Simulation*, Vol. 78 (7), pp. 669 - 679, 2008.

31. "Study of dynamic relationships between financial and real sectors with wavelets" (with B. Nandi and A. Mitra), *Applied Mathematics and Computation*, Vol. 188 (1), pp. 83-95, 2007.

32. "Predictability of Indian foreign exchange rates with wavelet filtering and artificial intelligence modelling", *Journal of Applied Finance*, Vol. 13 (4), 2007.
33. "Modelling exchange rates using wavelet decomposed genetic neural networks" (with A. Mitra), *Statistical Methodology*, Vol. 3 (2), pp. 103-124, 2006.
34. "A wavelet filtering based analysis of macro-economic indicators: the Indian evidence", *Applied Mathematics and Computation*, Vol. 175 (2), pp. 1055-1079, 2006.
35. "Multiple outlier detection in multivariate data using self-organizing maps" (with A. K. Nag and A. Mitra), *Computational Statistics*, Vol. 20 (2), pp. 245-264, 2005.
36. "Forecasting business cycle movements using wavelet filtering and neural networks" (with A. Mitra), *Finance India*, Vol 18 (2), pp. 1605 - 1626, 2004.
37. "Implications of changes in Govt. expenditure, revenue receipts, money supply and exchange rate on real output and inflation - evidences based on a small macro-model for the Indian economy" (with B. Singh), *Indian Journal of Applied Economics*, Vol. 8 (3), pp. 39-56, 1999.
38. "Alternating sums of sub-diagonal product moments of order statistics" (with P.C. Joshi), *Communications in Statistics, Theory and Methods*, Vol. 27 (5), pp. 1049-1054, 1998.
39. "Recent divergence between WPI and CPI in India - a statistical exploration" (with G.P. Samanta), *Reserve Bank of India Occasional Papers*, Vol. 19 (4), pp. 329-344, 1998.
40. "Single and product moments of Cauchy order statistics" (with P.C. Joshi), *Communications in Statistics, Theory and Methods*, Vol. 25 (8), pp. 1837-1844, 1996.
41. "Moments of Cauchy Order Statistics via Riemann Zeta Functions" (with P.C. Joshi), *Statistical Theory & Applications, papers in honor of H. A. David*, (H.N. Nagaraja, P. K. Sen, D. F. Morrison, eds.), New York: Springer-Verlag, pp. 117-127, 1996.

(II. Papers in Conference Proceedings)

1. "Moments of Cauchy Order Statistics and some identities involving Riemann Zeta functions", (with P.C. Joshi), *Proceedings of the Conference of Indian Society of Probability and Statistics*, Beneras Hindu University, 1997.
2. "Inter-relationship among money, output, exchange rate, price and relative price variability in India: a near-VAR approach ", (with G.P.Samanta), *Proceedings of the 35th Annual Conference of The Indian Econometric Society*, Jaipur, March 11-13, 1999.
3. "Implications of changes in Bank Rate and CRR on real output & inflation rate – some policy simulation results based on a quarterly model for the Indian economy ", (with B. Singh), *Proceedings of the 36th Annual Conference of the Indian Econometric Society*, Indore, 2000.
4. "Dynamics of Output, Trade and External Debt with special reference to Paradigm Shifts in Trade and Fiscal Regimes ", (with D. Anjaneyulu and B. Singh), *Proceeding of the 36th Annual Conference of the Indian Econometric Society*, Indore, 2000.
5. "Some interesting sums of product moments of Cauchy Order Statistics", (with P.C. Joshi), *Proceedings of the 5th International Symposium on Optimization & Statistics*, Aligarh Muslim University, 2002.
6. "Comparative Movement of Inflation Rates based on GDP Deflator, Wholesale Price Index and Consumer Price Index ", (with A.R. Joshi), *Proceedings of the Conference of the Indian Association of Research in National Income and Wealth (IARNIW)*, Ootacamund, 2004.
7. "Relationship between money, output and price: Revisited using wavelet filtering", *Proceedings of the International Conference on Recent Advances in Statistics*, IIT Kanpur, 2005.
8. "Robust Estimation of Parameters and number of Components of Superimposed Nonlinear Sinusoidal Signal Models", *First International Conference on Big Data & Applied Statistics*, Renmin University, Beijing, China, November, 2014.
9. "Order Estimation of Superimposed Nonlinear Complex Cisoid Model Using Adaptively Penalizing Likelihood Rule: Consistency Results", *International Conference on Economics, Statistics, Management Science (ESMS2017)*, Hong Kong, 2017. Published in Conference Proceedings - *DEStech Transactions on Engineering and Technology Research*, doi 10.12783/dtetr/amma2017/13387
10. "Order Estimation of Real Sinusoidal and Complex

Exponential Signal Processing Models", *National Conference for Women in Statistics and Analytics, Department of Statistics, Pune University, February 2018.*

(III. Books/Book chapters/Working papers)

1. "Measurement of Output Index for Transport Services in Preparation of an Index of Services Production", K. S. Ramachandra Rao and Sharmishtha Mitra, (*eds.* T. Das, R. Dasgupta, R. K. Parmar and A. Saha), *pub.* National Institute of Bank Management, Pune and Ministry of Finance, Govt. of India, 2004.

2. "Estimating Zero Coupon Yield Curve for Government Securities: The Indian Experience during recent period", Anujit Mitra, S. Gayen, Sharmishtha Mitra, D. Bhaumik & S. Biswas, DESACS Working Paper No. 2, Department of Statistical Analysis & Computer Services, *pub.* Reserve Bank of India, 2005.