SSCA Statistics and Applications

LIST OF ACCEPTED PAPERS TO APPEAR IN THE FORTHCOMING VOLUMES OF STATISTICS AND APPLICATIONS

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SA22(01) 2024 - June 2024 Issue

1. Controllability and Observability of Fuzzy Matrix Lyapunov Discrete Dynamical Systems
   *Authors: L.N. Charyulu R*ompicharla, Venkata *Sundaranand Putcha and G.V.S.R. Deekshitulu*
   (Accepted: 26 July 2022)

2. Some Improved Separate Estimators of Population Mean in Stratified Ranked Set Sampling
   Authors: Rajesh Singh and Anamika Kumari
   (Accepted: 21 May 2023)

3. E-Bayesian and Hierarchical Bayesian Estimation for Inverse Rayleigh Distribution Based on Left Censoring Scheme
   Authors: R. B. Athirakrishnan and E. I. Abdul Athar
   (Accepted: 24 May 2023)

4. Eigenspace Based Online Path Planner for Autonomous Mobile Robots
   (*Authors: Shyba Zaheer, Imthias Ahamed T. P., Tauseef Gulrez and Zoheb Zaheer*)
   Accepted: 25 May 2023

5. Development of Survey Weighted Composite Indices under Complex Surveys
   Authors: Deepak Singh, Pradip Basak, Tauqueer Ahmad, Raju Kumar and Anil Rai
   (Accepted: 05 June 2023)

6. Distribution of Runs of Length Exactly k_1 Until a Stopping Time for Higher Order Markov Chain
   Authors: Anuradha
   (Accepted: 10 June 2023)

7. A discrete analogue of intervened Poisson compounded family of distributions: properties with applications to count data
   Authors: K. Jayakumar and Jiji Jose
   (Accepted: 15 June 2023)

8. Estimation of Premium Cost for HIV/AIDS Patients Under ART in Presence of Prognostic Factors
Authors: Gurprit Grover and Parmeet Kumar Vinit
(Accepted: 22 June 2023)

9. Integrated Redundant Reliability Model using k out of n Configuration with Integer Programming Approach
Authors: Srinivasa Rao Velampudi, Sridhar Akiri and Pavankumar Subbara
(Accepted: 22 June 2023)

10. A Semi-Parametric Regression Hazards Model for Duration of Singlehood in North-East India
Authors: Lourembam Neroka Devi and Kshetrimayum Anand Singh
(Accepted: 30 June 2023)

11. A Multi-Criteria Decision-Making Approach to Compare the Maternal Healthcare Status of India States: An Application of Datascience
Authors: Sangeeta Goala, Supahi Mahanta and Dibyojyoti Bhattacharjee
(Accepted: 14 July 2023)

12. A Rank-based Test of Independence of Covariate and Error in Nonparametric Regression with Missing Completely at Random Response Situation
Authors: Sthitadhi Das and Saran Ishika Maiti
(Accepted: 22 July 2023)

13. Partially Accelerated Reliability Demonstration Tests for a Parallel System with Weibull Distributed Components Under Periodic Inspection
Authors: Preeti Wanti Srivastava and Satya Rani
(Accepted: 26 July 2023)

14. Inference on Stress-Strength Reliability for Lomax Exponential Distribution
Authors: Parameshwar V. Pandit and Kavitha, N.
(Accepted: 28 July 2023)

15. Bayesian Inference for Glioma Data Using Generalized Burr X-G (GBX-G) Family with R and Stan
Authors: Devashish, Shazia Farhin, and Athar Ali Khan
(Accepted: 03 September 2023)

16. Asymptotic Confidence Interval Approach to Estimate the Portion of Area Under Multi-Class ROC Curve
Authors: Arunima S. Kannan and R. Vishnu Vardhan
(Accepted: 06 September 2023)

17. On the Robustness of LSD Layouts in the Presence of Neighbor Effects
Authors: Sobita Sapam and Bikas K Sinha
(Accepted: 11 September 2023)

18. Statistical Analysis on Optimal Lockdown Schedule by Developing a Multivariate Prediction model SEIRDVIm
Authors: Subhasree Bhattacharjee, Kunal Das, Sahil Zaman, Arindam Sadhu and Bikramjit Sarkar
(Accepted: 09 October 2023)

19. Cost and Profit Analysis of Two-Dimensional State M/M/2 Queueing Model with Multiple Vacation, Feedback Catastrophes and Balking
Authors: Sharvan Kumar and Indra
(Accepted: 11 October 2023)

20. Singh Maddala Dagum Distribution with Application to Income Data
Authors: Ashlin Varkey and Haritha N. Haridas
(Accepted: 12 October 2023)

21. Bayesian Integration for Small Areas by Supplementing a Probability Sample with a Non-probability Sample
Authors: Balgobin Nandram and J. N. K. Rao
(Accepted: 08 January 2024)

Further Forthcoming Accepted Papers

1. Modelling Climate, COVID-19, and Reliability Data: A New Continuous Lifetime Model under Different Methods of Estimation
Authors: Arvind Pandey, Ravindra Pratap Singh, Shikhar Tyagi, and Abhishek Tyagi
(Accepted: 15 October 2023

2. Simple Linear Slope Estimators Based On Sample Quasi Ranges
Authors: Sharada V. Bhat and Shrinath M. Bijjargi)
(Accepted: 28 October 2023)

3. Comparison of Cause Specific Rate Functions of Panel Count Data With Multiple Modes of Recurrence
Authors: Sankaran P. G., Ashlin Mathew P. M. and Sreedevi E. P.
(Accepted: 15 November 2023)

4. Price Forecasting of TOP (Tomato, Onion and Potato) Commodities using Hidden Markov-based Deep Learning Approach
Authors: G. Avinash, Ramasubramanian V., Ranjit Kumar Paul, Mrinmoy Ray, Shashi Dahiya, Mir Asif Iquebal, Samarth Godara and B. Manjunatha
(Accepted: 28 November 2023)

5. A New Lifetime Distribution: Statistical Inference and its Applications
Authors: Arvind Pandey Pawan Kumar Singh Mahendra Saha
(Accepted: 30 November 2023)

6. LDPC Codes Based on New Combinatorial Designs
Authors: Shyam Saurabh and Kishore Sinha
(Accepted: 02 December 2023)

7. Calibration Approach for Estimating Mean of a Stratified Population in the Presence of Non Response
Authors: Manoj K. Chaudhary, Anil Prajapati and Basant K. Ray
(Accepted: 03 December 2023)

8. Reliability Assessment of Two-Component Series System Shock Model
Authors: S. B. Munoli and Abhijeet Jadhav
(Accepted: 05 December 2023)

9. A Modified Measurement Error Model for Replicated Method Comparison Data with Skewness and Heavy Tails
Authors: Jeevana Duwarahan and Lakshika S. Nawarathna
(Accepted: 06 December 2023)

10. Study of Priority Based Network Nodes Using Quasi Birth and Death Process
Authors: Malla Reddy Perati and Abhilash Vollala
(Accepted: 07 December 2023)

11. Variations of Wholesale Price of Wheat in Different States of India under COVID-19 Pandemic
Authors: Rashmi, H. P. Singh and P. K. Singh
(Accepted: 10 December 2023)

12. Joint Importance Measures for Repairable Multistate Systems
Authors: V. M. Chacko, Ann Sania and Amrutha M.
(Accepted: 14 December 2023)

13. A Comprehensive Study of the Power Modified Lindley-Geometric Distribution in the T-X Family: COVID-19 Applications
Authors: Meenu Jose and Lishamol Tomy
(Accepted: 05 January 2024)

14. Wavelet-ARIMA-TDNN Model for Agricultural Commodity Price Forecasting
Authors: Sathees Kumar K., Banjul Bhattacharyya, Gowthaman T. and Elakkiya N.
(Accepted: 08 January 2024)

15. Bayesian Analysis of Exponentiated Exponential Power Distribution under Hamiltonian Monte Carlo Method
Authors: Laxmi Prasad Sapkota and Vijay Kumar
(Accepted: 09 January 2024)

16. Linear Trend-Free Group Divisible Design
Authors: Longjam Roshini Chanu and K.K. Singh Meitei
(Accepted: 24 January 2024)

17. A Systematic Literature Review of Sustainable Probabilistic Inventory Models
Authors: Khimya Tinani and Anuja Sarangale
(Accepted: 04 February 2024)

18. Extropy properties of Ranked Set Sample for Sarmanov Family of Distributions
Authors: Manoj Chacko and Varghese George
(Accepted: 25 February 2024)

19. Construction of Nearly Orthogonal Arrays Mappable to Tight Orthogonal Arrays of Strength Two Using Projective Geometry
Authors: Poonam Singh, Mukta D. Mazumder, and Santosh Babu
(Accepted: 29 February 2024)

20. Determining Variables Affecting Subjective Well-Being: A Quantile Bayesian Structural Equation Modeling Approach
Authors: Zubeyde Cicek and Nuran Bayram Arlı
(Accepted: 20 March 2024)

21. Power Generalized DUS Transformation of Inverse Kumaraswamy Distribution and Stress-Strength Analysis
Authors: Amrutha M. and V. M. Chacko
(Accepted: 30 March 2024)

22. R-optimal Designs for Logistic Regression Model in Two Variables
Authors: Mahesh Kumar Panda and Tofan Kumar Biswal
(Accepted: 04 April 2024)

23. Estimation for the Length Biased Log-Logistic Model under Adaptive Progressive Type II Censoring
Authors: Ranjita Pandey, Pulkit Srivastava and Sweta Shukla
(Accepted: 06 April 2024)

24. R-optimal Designs for Gamma Regression Model with Two Parameters
Authors: Mahesh Kumar Panda, Tofan Kumar Biswal and V.K. Gupta
(Accepted: 12 April 2024)

25. Discrete Type I Half-Logistic Weibull Distribution and Its Properties
Authors: M. Girish Babu and K. Jayakumar
(Accepted 14 April 2024)

26. Bulk Queuing Model with Reneging of Customers and their Retention
Shejal Gupta, Pradeep K. Joshi and K.N. Rajeshwari
(Accepted: 16 April 2024)

27. Inference Techniques, Properties, and Applications of the T-Marshall-Olkin X Family of Distributions
Authors: Meenu Jose and Lishamol Tomy
(Accepted: 24 April 2024)

28. Competing Risks Models with Multistate and Intermediate States
Authors: A. M. Rangoli, A. S. Talawar and R. P. Agadi
(Accepted: 25 April 2024)

29. Extinction and stationary distribution of a stochastic $SEII_aI_qHR$ epidemic model with intervention
(*Authors: Tamalendu Das, Tridip Sardar and Sourav Rana*)
Accepted: 29 April 2024

30. Sample Size Determination for Clinical Studies when Crisp Inputs are not available
(*Authors: Sai Sarada Vedururu, R.Vishnu Vardhan and K.V.S. Sarma*)
Accepted: 01 May 2024

SA22(02)2024 December Issue

Special Issue on
"Life and Work of CR Rao (1920-2023): The Revolutionary of Statistical Sciences"
In fond memory and honour of Late Prof CR Rao

Guest Editors: Bimal Kumar Sinha; Bikas Kumar Sinha; Shyamal Peddada; Thomas Mathew; Tapas Kumar Nayak; Bhramar Mukherjee; Nairnjana Dasgupta; S. Ejaz Ahmed; V.K. Gupta