



## **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 Rompicharla, 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)

## **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; Nairnana Dasgupta; S. Ejaz Ahmed; V.K. Gupta**