SSCA Statistics and Applications

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

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Volume 24, No. 1, 2026 (June Issue)

1. Analyzing the Power Gemeay Distribution: Properties and Diverse Applications
(*Authors: Lishamol Tomy, Anagha K. and Ahmed M.Gemeay*)
Accepted: 30 April 2025

2. An Inferential Study of Two Kumaraswamy Populations Under Joint Ranked Set Sampling
(*Authors: Mahesh K. Bhingikar and D. P. Raykundaliya*)
Accepted: 04 May 2025

3. A Family of Additive-Multiplicative Frailty Models Using the Inverse Gaussian as Frailty Distribution
(*Authors: Alok D. Dabade*)
Accepted: 07 June 2025

4. Competing Risks Analysis of factors influencing the runs scored by Top T20 Batsmen - A Survival Analysis Approach
(*Authors: M. Sathishkumar, M. Ramakrishnan and N. Viswanathan*)
Accepted: 09 June 2025

5. Understanding North Atlantic Climate Instabilities and Complex Interactions Using Data Science
(*Authors: Alka Yadav, Sourish Das, Anirban Chakraborti and Sudeep Shukla*)
Accepted: 28 June 2025

6. Stress-Strength Reliability Analysis of Power Function and Nakagami Distributions using Comparative Sampling
(*Authors: Surinder Kumar, Rahul Shukla and Bhupendra Meena*)
Accepted: 15 July 2025

7. Zero-One-Inflated Poisson-Garima Distribution and its Applications in Biomedical Studies
(*Authors: Divya A., Prasanth C. B. and Muhammed Anvar P.*)
Accepted: 23 July 2025

8. Semi-supervised Feature Selection using Maximum Mutual Information and Minimum Correlation through Augmented Learning
(*Authors: Arghya Kusum Das, Saptarsi Goswami, Amlan Chakrabarti and Basabi Chakraborty*)
Accepted: 29 July 2025

9. R-optimal Mixture Designs for Special Cubic Model
(*Authors: Mahesh Kumar Panda*)
Accepted: 26 August 2025

10. Poisson–Transmuted Geometric Convolution for Overdispersed Count Data
(*Authors: Anupama Nandi1, Partha Jyoti Hazarika, Aniket Biswas, Mahmoud. El-Morshedy, Mora Alizadeh, Hadi Saboori6 and Mohamed S. Eliwa*)
Accepted: 05 September 2025

11. Nonparametric Estimation and Analysis of Conditional Dynamic Failure Extropy in Bivariate Systems
(*Authors: Lekshmi Krishnan C. U. and E. I. Abdul Sathar*)
Accepted: 25 September 2025

12. ROC Curve for Binary Classification using X Lindley Distribution
Authors: Sandhya Singh and Saebugari Balaswamy)
Accepted: 10 October 2025

13. Reliability Analysis of a Phased Mission System under Degradation using Wiener Process and Copulas
(*Authors: Satya Rani and Preeti Wanti Srivastava*)
Accepted: 30 October 2025

14. A Hyperspectral and Deep Learning Approach for Wheat Yield Prediction
(*Authors: Mohit Kumar, Alka Arora, Sudeep Marwaha, Viswanathan Chinnusamy, Sudhir Kumar, Soumen Pal, Mrinmoy Ray and Rajkumar Dhakar*)
Accepted: 03 November 2025

15. Estimation in Semiparametric Models by Kernel Smoothing Perspective: A Real Data Based Study
(*Author: Sthitadhi Das)*
Accepted:10 November 2025

Special Issues of the Journal 'Statistics and Applications

I. Special Issue of the Journal 'Statistics and Applications' (June 2026)

"Recent Advances in Bayesian Statistics and Machine Learning"

Guest Editors

Durba Bhattacharya (St. Xavier's College (Autonomous), Kolkata)
Sourabh Bhattacharya (Indian Statistical Institute, Kolkata)
Sourish Das (Chennai Mathematical Institute)

AIM

The aim of this special issue is to bring together recent developments, innovative methodologies, and impactful applications in Bayesian statistics and machine learning. Bayesian methods have become increasingly central to modern data science, offering principled frameworks for uncertainty quantification, interpretability, and decision-making. At the same time, machine learning continues to expand its capabilities and influence across disciplines, inspired by advances in computation, data availability, and algorithmic design.

This special issue seeks to highlight theoretical contributions, novel algorithms, computational strategies, and real-world applications that leverage Bayesian principles within machine learning and allied fields. We invite high-quality original research papers, review articles, and case studies that demonstrate how Bayesian methods are advancing the frontiers of machine learning, or how machine learning techniques are being enriched by Bayesian reasoning.

Topics of interest include, but not limited to:

- Bayesian inference and posterior computation (e.g., MCMC, variational inference, approximate Bayesian computation)
- Bayesian deep learning and probabilistic neural networks
- Bayesian nonparametrics and hierarchical models
- Bayesian optimization and reinforcement learning
- Bayesian approaches to causal inference and decision theory
- Scalable Bayesian computation and big data analytics
- Uncertainty quantification in AI and machine learning systems
- Bayesian methods for time series, spatial statistics, and complex networks

II. Special Issue of the Journal "Statistics and Applications" to felicitate Professor Vinod Kumar Gupta on his 75th birthday

Guest Editors

Rajender Parsad
Bikas Kumar Sinha
Ramana V. Davuluri
Jyotirmoy Sarkar
Ashish Das
Durba Bhattacharya
Sourish Das
Baidya Nath Mandal