DEPARTMENT OF STATISTICS
FACULTYOFMATHEMATICALSCIENCES
UNIVERSITYOFDELHI
DELHI-110007

Recent Publications of the Faculty Members Since 2012

The faculty members publish papers in national and international journals. The following is a partial list of the publication.

Year: 2025

1. Giri,K., Chandra, G., RSC Jayraj, G Mishra and E Chanu. (2025) Non-destructive method for developing regression models to estimate timber volume of Quercusserrata and Pinus kesiya in Manipur, North-East India. https://www.woodresearch.sk/cms/volume-estimation-models-for-quercus-serrata-and-pinus-kesiya-using-non-destructive-techniques-a-case-study-from-northeast-india/
2. Kamal Pandey, Sunil Chandra, Girish Chandra and Salman Khan (2025).SmallAreaEstimation Technique in Forestry Sector with Special Emphasis on National ForestryInventory: A Review .https://www.researchgate.net/publication/397702842_Small_Area_Estimation_Technique_in_Forestry_Sector_with_Special_Emphasis_on_National_Forestry_Inventory_A_Review/references

3. Saha, M., Pratibha Pareek, P., Pandey, A. and Devi, A. (2025). Applications of new quantile and symmetric based process capability index to manufacturing industry, Quality and Reliability Engineering International, doi.org/10.1002/qre.70106

4. Saha, M., Dey, S and Kumar, D. (2025).Applications of interval estimation for the evaluation of two process. . https://www.researchgate.net/publication/395548410_APPLICATIONS_OF_INTERVAL_ESTIMATION_FOR_THE_EVALUATION_OF_TWO_PROCESS_CAPABILITIES https://www.researchgate.net/publication/394926214_Control_Chart_for_Mean_based_on_Multiple_Dependent_State_Repetitive_Sampling_for_Exponential_Power_Distribution

5. Das, S., Saha, M. andMaiti, S. S. (2025). Control Chart for Mean based on Multiple Dependent State Repetitive Sampling for Exponential Power Distribution, Life Cycle Reliability and Safety Engineering, doi.org/10.1007/s41872-025-00359-w,

6. Saha, M., Yadav, A.S., Bhattarchya, A., Maiti, S. S. and Gupta, A. (2025). Bayesian estimation of unified generalized process capability index for logistic-exponential distribution under type-II censored scheme. {\it Engineering Applications of Artificial Intelligence}, doi.org/10.1016/j.engappai.2025.111868.

7. Saha, M., Gopal, G. and Yadav, A. S. (2025). Bayesian of the process capability index Cpc under progressive type II censored scheme, {\it International Journal of System Assurance Engineering and Management,10.1007/s13198-025-02913-2.

8. Saha, M., Pareek, P., Tripathi, H. and Devi, A. (2025). Time truncated attribute control chart using acceptance sampling plans: A comparative study, {\it International Journal of System Assurance Engineering and Management, doi.org/10.1007/s13198-025-02893-3.

9. Kumar, D., Saha, M. and Dey, S. (2025). Classical estimation and confidence interval for Poisson Nadarajah-Haghighi distribution with its applications, Strength of Materials, DOI 10.1007/s11223-025-00779-0.

10. Tripathi, H., Yadav, A.S., Saha, M. and Sumit Kumar, S. (2025). Generalized inverse xgamma distribution: properties, estimation and its applications to survival data. Thailand Statistician, 23(3), 573-597.

11. Saha, M. Kumar, S., Pareek, P., Doodal, G. and Meena, B. (2025). Parametric confidence intervals of generalized process capability index for finite mixture distributions, International Journal of System Assurance Engineering and Management, doi.org/10.1007/s13198-025-02745-0.

12. Pareek, P., Saha, M., Riyar, S. and Pandey, A. (2025). Applications of time truncated acceptance sampling plans for logistic-exponential process distribution, Life Cycle Reliability and Safety Engineering, doi.org/10.1007\\/s41872-025-00304-x.

13. Saha, M., Dey, S., Maiti, S. S. andYadav, A.S. (2025). A comparative study of six process capability indices and their applications to food and electronic industries, Stochastic and Quality Control, DOI: 10.1515/eqc-2024-0027.

14. Saha, M., Tripathi, H. and Maiti, S. S. (2025). Group acceptance sampling inspection plan for truncated life test based on some finite mixture distributions: A comparative study, Life cycle Reliability and Safety Engineering, doi.org/10.1007/s41872-025-00305-w.

15. Yadav, A.S., Singh, S K. and Saha, M. (2025). On the estimation of generalized lifetime performance index of exponentiated exponential distributed characteristics under progressive censoring. Quality and Reliability Engineering International, 0, 1-17.

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19. SatyaPrakashMishra,ManojKumar,SanjayKumarSingh,RanjanKumarSahoo (2025) E-Bayesian and hierarchical Bayesian inference of exponentiated lifetime distribution under adaptive progressively censored data with binomial removals. https://link.springer.com/article/10.1007/s41870-025-02765-w

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26. Tiwari, N., Chandra, G., Banerjie, J. and Bhari, S. (2025). Estimation of location and scale parameters of lognormal distribution using median with extreme ranked set sampling, SANKHYA-B, 87, 76-102. https://doi.org/10.1007/s13571-024-00351-x

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3. Kumar, S., Pathak,A., and Kumar, M. (2024). Bayesian estimation: Number of speciesfromPoissonmixedexponential-gammadistributionusingobjectivepriors, Journal of Statistics & Management Systems, pp:703-720, https://doi.org/10.47974/JSMS-1245.
4. Saha,M.,Devi,A.,Yadav,A.S.,&Maiti,S.S.(2024).Evaluationofanovelloss-based process capacity index and its applications. International Journal of SystemAssurance Engineering and Management, 1-14. 1007/s13198-023-02235-1. https://link.springer.com/article/10.1007/s13198-023-02235-1
5. Saha,M.,Pareek,P.,Tripathi,H.,andDevi,A.(2024).Timetruncatedattributecontrol chart for the generalized Rayleigh distributed quality characteristics and beyond. International Journal of Quality and Reliability Management. 10.1108/IJQRM-02-20230049. https://www.emerald.com/ijqrm/article-abstract/41/5/1400/1234637/Time-truncated-attribute-control-chart-for-the?redirectedFrom=fulltext

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DOI:doi.org10.1515/eqc-2024-0029.

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3. Pandey,R.,Chand,D.B.,&Tolani,H.(2023).BayesianMultipleLinearRegression Model for GDP in Nepal. International Journal of Statistical Distributions and Applications. 9(1), pp. 9-23. doi: 10.11648/j.ijsd.20230901.12 https://www.sciencepublishinggroup.com/article/10.11648/j.ijsd.20230901.12

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