

**JOURNAL OF
STATISTICS & MANAGEMENT SYSTEMS**

Index of Volume 28 (2025)

Number 1, January

F. C. OPONE, N. EKHOSUEHI AND L. C. NZEI : The discretization of the Topp-Leone generated family of distributions	1–16
B. OLUYEDE AND M. GABANKGOSI : The Marshall-Olkin Type II exponentiated half logistic family of distributions with properties and applications	17–46
V. O. AKINSOLA, T. O. OLUYO, A. O. BINUYO AND D. I. OLADAPO : Showing the effects of comorbidity of Diabetes Mellitus on diabetics' population from a simple linear mathematical model	47–65
S. NADARAJAN, B. UNHELKAR, S. S. SHANKAR, T. CHAKRABARTI, P. CHAKRABARTI, B. SIVANEASAN AND M. MARGALA : Federated learning for brain tumor segmentation and classification : A statistical approach	67–77
M. AL-HAJ EBRAHEM AND M. ABEDALQADER : Estimating percentiles of time-to-failure distribution obtained from a Weibull accelerated degradation model	79–87
C. H. CHEN AND T. H. LEE : Optimal process parameters setting based on time value of money	89–93
K. SHARMA, B. UNHELKAR, S. S. SHANKAR, T. CHAKRABARTI, P. CHAKRABARTI, B. SIVANEASAN AND M. MARGALA : Interdisciplinary role of statistics in energy consumption prediction within smart grid big data analytics	95–105
C. H. CHEN AND T. H. LEE : Process parameters settings and quality investment selection for modified traditional inventory model	107–113
M. I. KHAN : On characterization of a continuous distribution through lower record values	115–120

V. GOYAL, B. UNHELKAR, S. S. SHANKAR, T. CHAKRABARTI, P. CHAKRABARTI, B. SIVANEASAN AND MARTIN MARGALA : Early fire hazard risk management model in urban environments : Leveraging optimized deep learning techniques	121–131
C. H. CHEN AND T. H. LEE : Selection of EMQ, quality investment, and parameters of acceptance sampling	133–138
Y. R. K. CHAKRABARTI, B. UNHELKAR, S. S. SHANKAR, T. CHAKRABARTI, B. SIVANEASAN AND M. MARGALA : An intelligent framework for credit card fraud detection through data analytics	139–149
M. KH. HASSAN AND M. ASLAM : Stress-strength reliability analysis of series systems with redundancy : A study utilizing Rayleigh distribution and estimation techniques	151–175
S. A. JADHAV, A. B. SHELKE, S. V. KAKADE AND S. D. KADAM : Utilizing statistical methods to assess the association between demographic variables and angiographically confirmed CVD	177–191
K. M. K. RAGHUNATH, B. UNHELKAR, S. S. SHANKAR AND P. CHAKRABARTI : Statistical assessment of an interpretable AI framework for improved disease diagnosis through medical images	193–204
K. BOATENG, K. B. OMANE-ANTWI AND Y. N. QUEKU : Solvency constraint implications for tax liability targeting of banks in Ghana	205–234
 Number 2, March	
F. A. MOALA, A. J. COSTA, L. F. JORGE AND S. M. OIKAWA : Conjugate and objective priors for the parameter and cumulative function under bathtub and increased shapes of hazard function	235–255
T. HAMDENI AND S. GASMI : Cure rate and statistical inference for the Marshall-Olkin generalized defective Gompertz distribution under censored survival data	257–266
X. S. LIU : Visualizing and removing the bias in R-squared	267–275

S. SERT, I. ABUSAIF, A. PEKGÖR, K. KARAKAYA AND C. KUŞ : The classical, meta-heuristic and EM algorithms for the estimation of the KM-Weibull distribution under progressively first-failure censoring	277–307
J. EL-ACHKY : On strongly Schur-convex stochastic process	309–315
N. ABDULALEEM AND W. SALEH : Optimality and duality results for minimax optimization problems under E-invexity	317–335
F. W. KPARIBIRE, S. NASIRU, A. A. A. KOBILLA AND A. GHANIYU ABUBAKARI : Mixture unit Weibull distribution : Properties and applications	337–354
L. Q. TING, L. S. YAN, C. M. JUN, C. W. CHEONG AND L. MIN : Random walk classifications and market risk evaluations of Malaysian stock market	355–374
T. V. S. R. RAO : Estimating switch points and thresholds when the dependent variable is not observable	375–385
S. S. DEEPAK, G. SHIVAKANTH, P. P. KUMAR, R. S. N. SAI, C. K. REDDY, V. V. S. SASANK, S. VAKKALANKA AND S. MACHERLA : Optimizing university path navigation : A statistical and decision sciences approach using augmented reality	387–397

Number 3, April

Y. T. CHEN, Y. L. WANG, C. H. LEE AND R. F. CHEN : A comparison between the brand awareness and logistic prediction models for predicting election results	399–423
S. K. OCLOO, S. NASIRU, B. ODOI AND L. BREW : Another extension of the Gompertz distribution : Properties, applications and regression	425–443
Y. SUNECHER AND N. M. KHAN : Modelling stock data using a geometric BINAR(1) model	445–453
M. R. IRSHAD, R. MAYA, A. KRISHNA AND C. CHESNEAU : NBINAR(1) process defined with Poisson-weighted exponential innovations	455–470
A. NAIM : Utilizing artificial intelligence for market expansion and financial resilience	471–481
A. B. S. MOHUNGGOO AND J. NARSOO : Option valuation using Garch-type models : Empirical evidence using USD/INR data	483–504

S. S. ABUBAKAR, M. B. C. KHOO, F. N. MIM, A. A. UMAR, W. C. Y. AND I. ABDULLAHI : An adaptive run sum scheme for process ratio	505–534
A. K. SEHRA, R. CHAWLA, A. NAGPAL AND G. NAGPAL : Blockchain technology for vehicle registration : A framework for VAHAN citizen services portal in India	535–544
G. NAGPAL, S. NARULA, A. NAGPAL, H. KUMAR, S. D. DESAI, S. GUPTA AND A. KUMAR : Application of blockchain and smart contracts in pharmaceutical cold chain : A systematic literature review	545–557
M. CAKMAK, F. GÖKPINAR, M. EBEGIL AND E. GÖKPINAR : Likelihood-based methods for testing the equality of means of several log-normal populations	559–577
A. NAGPAL, M. CHAWLA, K. K. GARG AND G. NAGPAL : Framework for a crypto-will platform that can smoothen the process of writing a Will	579–588
E. MALIK AND P. K. BINDLISH : Exploring the Buurtzorg model : A paradigm shift in global homecare	589–610

Number 4, May

L. GABAITIRI, K. KEGANNE AND B. MAKUBATE : A flexible model with both bathtub and upside down bathtub shape hazard rates	611–628
S. S. BRAR, M. SINGH AND S. C. MALIK : An unbiased efficient estimator of population mean using an auxiliary attribute in stratified random sampling	629–647
H. S. BAKOUCH, R. I. ABDULLAA, C. CHESNEAU AND A. BAZYARI : A notable two-parameter detection model for the line transect distance sampling	649–669
D. RAKSHIT, R. K. PAUL, MD. YEASIN AND C. CHESNEAU : An alternative method for out-of-sample forecast of FIEGARCH model	671–689
A. M. KARAKAŞ : The new continuous distribution : Statistical properties and modelling for Covid-19 data	691–711

I. W. S. FENG, Q. A. THYE, C. W. CHEONG AND L. MIN : The impact of the Covid-19 and the Russia-Ukraine conflict on crude oil and stock market volatility	713–740
A. AL-AITA, M. ASLAM AND R. ALHABIB : Analysis of Sudoku square designs for imprecise data	741–760
V. YESTE, Á. CALDUCH-LOSA, J. A. ONTALBA-RUIPÉREZ AND J. SERRANO-COBOS : Predicting the success of online news about movies with Google Analytics and Twitter : A machine learning methodology	761–793
G. PADMA, N. R. SHANKAR AND K. S. RAO : Optimizing transportation network through IFN ranking : A comprehensive approach	795–808
S. S. FERREIRA, H. ZEGHDOUDI, S. PRABAHARAN, D. VALERA AND V. RAMAN : Stochastic approach for faculty turnover in higher education institutions using Erlang truncated exponential distribution	809–818
Correction Note	819

Number 5, July

M. BHANDARY : Estimation of the number of faulty components of outliers in signal processing	821–837
G. VEENA, L. TOMY AND C. CHESNEAU : Application of a three-parameter Lindley distribution in quality control	839–853
H. A. NOUGHABI : A new goodness of fit test for normal distribution based on the negative cumulative extropy	855–878
A. GOYAL, A. GOYAL AND S. ARORA : Allocations in stratified modified PPS sampling technique	879–892
M. D. MEYBODI AND M. S. F. NEZHAD : Development of a mathematical model based on Markov modeling of blood banks to minimize blood bank costs considering waste and shortage costs	893–911
S. M. STEFANOV : On the queueing theory : Problems and applications	913–919
S. SINGH, J. YADAV, V. CHATURVEDI AND A. K. PANDEY : Understanding the impact and effectiveness of workplace wellbeing programs as a leadership initiative on employee satisfaction	921–939

T. PENG AND X. Y. QIAN : Extended two-piece double generalized gamma distribution and its applications	941–957
G. KALUCHA, G. KHANDUJA AND A. KALUCHA : Calculating sensitivity, specificity and predictive values for coronavirus tests	959–969
V. BHARATHI, S. VIJAYA AND S. S. EZHIL : A three-species interaction model for crop-pest dynamics and environmental factors in agricultural ecosystems	971–992
S. M. PIMPALGAONKAR, S. B. THAKRE, C. MESHAM, V. P. GAIKWAD AND S. KHATARKAR : Enhancing energy efficiency in turning operations by optimizing cutting parameters	993–1010
B. C. J. AMPOUMET, A. ARORA AND A. AGRAWAL : CSR in the banking sector of India : The effect of CSR spending on the profitability and market value of selected banks	1011–1022

Number 6, September

J. M. CHEN : Multi-vendor and multi-buyer collaborative planning, forecasting and replenishment model	1023–1036
K. M. O. AL-RIKABI, A. A. HEYDARI AND H. J. KHAMNEI : Multi-scenario reliability stress-strength models based on Topp-Leone and generalized Rayleigh distributions	1037–1048
M. K. CHAUDHARY AND N. BHARDWAJ : An improved calibration estimator for mean of a stratified population using two auxiliary variables	1049–1063
S. M. STEFANOV : Decision making under risk and uncertainty	1065–1072
M. W. HAIRAN, A. DELAVARKHALAFI AND S. ALIKHANI : Detection of overlap community in social networks founded on game theory	1073–1090
U. NAYEEM AND D. N. RAO : Navigating brand image dynamics : A bibliometric Odyssey in education marketing	1091–1117
M. BALASUBRAMANIAN AND R. KAMALI : Optimizing green inventory management in the textile industry : Addressing linear demand, deterioration and credit periods	1119–1131

T. Y. HENG, T. X. XIAN, C. W. CHEONG, K. S. KHEW AND L. MIN : Analyzing market risk forecasting of asymmetric GARCH model for stock volatility during the Malaysian general election period	1133–1149
K. K. THOTI, G. B. URS, G. PADMAVATHY, P. R. KUMUDA, M. G. BABU AND V. RAMAKRISHNAN : Deployment of ecologically responsible technology by the Zepto enterprise in Bangalore, India : An analysis using the UTAUT model	1151–1165
M. KUMAR, A. KALIA, P. K. MITTAL AND N. KUMAR : Analyzing the impact of agile practices on software projects	1167–1178
SONAM AND JYOTI : An Apriori algorithm-based framework for measuring and improving transactional dataset efficiency	1179–1189

Number 7, October

H. K. BHUYAN, B. UNHELKAR, S. S. SHANKAR AND P. CHAKRABARTI : Advanced analysis of medical image modality using generative and vision transformer model	1191–1222
W. NKOMO, B. OLUYEDE AND F. CHIPEPA : Type I heavy-tailed–G power series distributions : Actuarial and statistical analysis with applications to censored and uncensored data	1223–1248
A. Z. AFIFY, Z. M. NOFAL AND M. A. ABDELAZIZ : A unified flexible Weibull-H family for modeling real-life data with properties, Bayesian and non-Bayesian inference	1249–1294
P. P. JEYAPPAUL : Facets of retailers' consideration in choosing to stock and retail branded value added milk products especially clarified butter	1295–1309
G. S. D. S. JAYAKUMAR AND W. SAMUEL : On a multivariate Lindley distribution of Kind-1	1311–1330
A. KUMAR, S. PATWA AND S. K. JANGIR : LSTM autoencoders for novel insider threat detection : A psychometric and temporal feature based approach	1331–1353

Number 8, November

A. VYAS, N. SHAH, S. SANGANI AND A. THARADARA : Mapping inputs, processes, and outcomes of insolvency and bankruptcy code (IBC)	1355-1372
K. RAMCHANDANI AND K. JETHWANI : Measuring employee productivity in Indian banks : A comparative analysis	1373-1383
S. K. MAHAJAN, P. S. VELLALA AND N. BHATT : An enquiry into access to minimum wage, food affordability and saving propensity of guards of private security establishments in Ahmedabad	1385-1402
M. SHAIKH, M. PARIKH, P. A. DAVE AND P. S. VAGHELA : Risk management and return trade-offs in gold and silver pair trading : Quantitative approach	1403-1417
S. G. PATEL AND H. SUNDARABASKAR : Major challenges for Indian thermal power plant endurance	1419-1432
S. NIMBAGAL, A. SARANGMATH, M. UNAKAL AND A. GONGADE : Factors influencing the acceptance of mobile health apps among Indians : A behavioral perspective	1433-1442
NOUSHAD KP AND M. A. MILLATH : Connecting the gap between workforce diversity and emotional wellbeing of employees : An empirical study	1443-1456
J. P. SIDDHAPURA, R. DUREJA, P. K SUCHAK AND A. JOSHI : Empathy among management students : An assessment scale-based study of university students in Gujarat	1457-1467
N. HALVADIA AND K. RAVAL : Exploring antecedents of corporate social responsibility practices of FMCG companies in Gujarat	1469-1482
T. GHUHATO AND P. PARIDA : Organizational culture : Evidence from selected organizations in Arunachal Pradesh	1483-1496
V. SHAH : Pandemic : The flip side and the exceptions	1497-1517
P. S. VELLALA, T. M. VIJAYAN AND S. K. MAHAJAN : Impact of digital transformation on financial inclusion and sustainable development goals : Evidence from major Indian states	1519-1531

INDEX OF VOLUME 28 (2025)	1661
S. S. BIST AND N. MEHTA : Influence of online customer reviews on consumers' willingness to purchase through online group buying	1533-1541
H. MAHAJAN, J. VIDANI, A. SUNIL AND M. SAXENA : Packaging strategies : Outlook on consumer buying behaviour for consumer-packaged goods	1543-1552
N. SHAH AND A. SUNIL : Empowering role of digital technology for women run home-based businesses	1553-1564
V. SUTARIA AND A. JAIN : A systematic review of ECG and physiological parameter analysis for stress detection via machine learning	1565-1575
A. ACHARYA, A. MACWAN AND Y. SHAH : Metaverse demystified : Design insights, deployment, intricacies and mitigations	1577-1600
A. DANDARE, A. CHATI, M. DAHRANE AND S. A. PATIL : IoT-driven smart solutions for LPG leak detection and safety management	1601-1614
S. PATEL AND J. DOSHI : Forecasting stock prices : Endeavors in the renewable energy sphere for a greener future	1615-1624
K. SHAH, P. PARIKH, L. CHOKSHI AND J. DOSHI : Socializing NLG, NLP & NLU through AI : Real-world application and future perspectives	1625-1637
A. DAS, T. K. DAS AND S. DAS : Poor economics of poor times : A case study on the life and livelihood mechanisms of the Kumartuli craftsmen of Kolkata	1639-1652
Index of Volume 28 (2025)	1653-1661