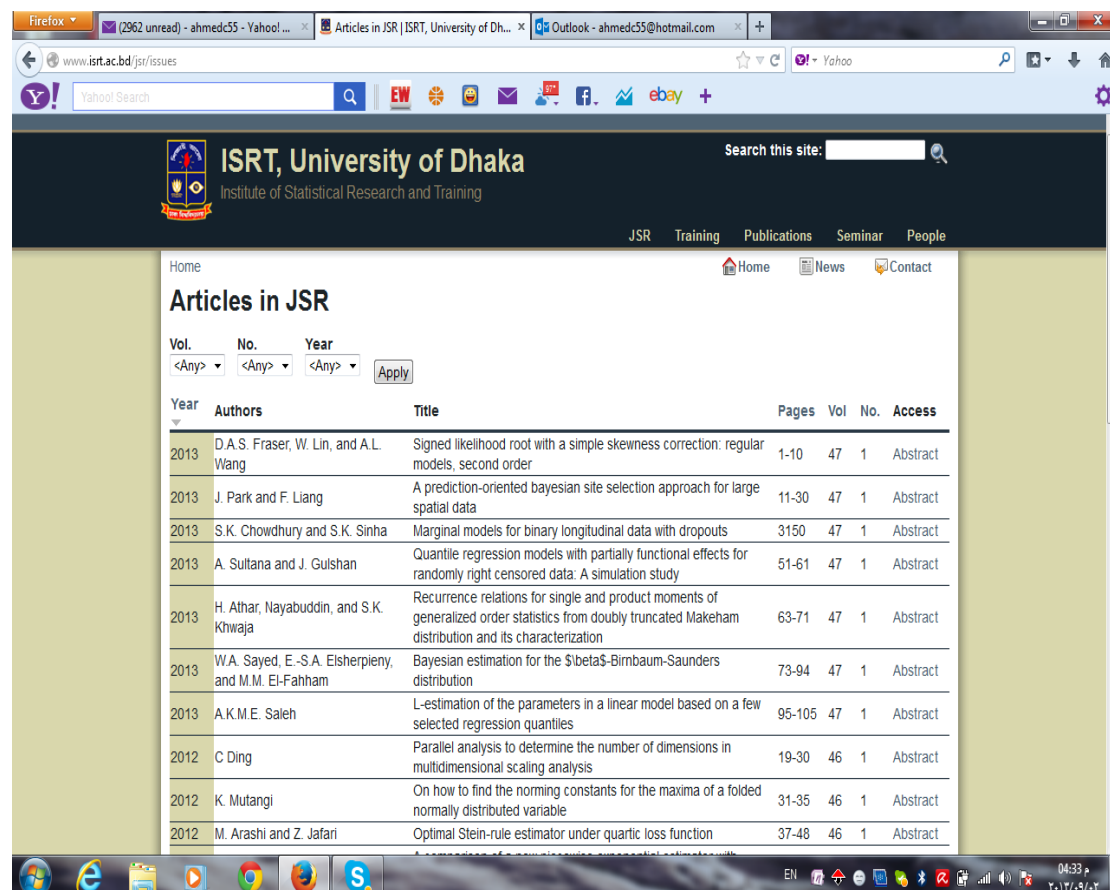


Bayesian estimation for the β -beta-Birnbaum-Saunders distribution

W.A. Sayed, E.-S.A. Elsherpieny, and M.M. El-Fahham (2013). Bayesian estimation for the β -beta-Birnbaum-Saunders distribution. *Journal of Statistical Research*, Vol. 47, No. 1, pp. 73-94.

Abstract

In this article, we present Bayes estimators for the parameters and reliability function of the β -Birnbaum-Saunders distribution under both the symmetric (squared error, SE) loss function and asymmetric (LINEX and general entropy, GE) loss functions. The Bayes estimators can not be obtained in closed form. Approximate Bayes estimators are computed using Lindley's approximation technique. Posterior variance estimates are compared with the variance of the maximum likelihood estimators (MLEs) of the parameters. The different loss functions are compared through posterior risk. A real data set is analyzed for illustrative purpose.



The screenshot shows the website of the Institute of Statistical Research and Training (ISRT), University of Dhaka. The page displays a list of articles published in the Journal of Statistical Research (JSR). The table below is a representation of the data shown in the screenshot.

Year	Authors	Title	Pages	Vol	No.	Access
2013	D.A.S. Fraser, W. Lin, and A.L. Wang	Signed likelihood root with a simple skewness correction: regular models, second order	1-10	47	1	Abstract
2013	J. Park and F. Liang	A prediction-oriented bayesian site selection approach for large spatial data	11-30	47	1	Abstract
2013	S.K. Chowdhury and S.K. Sinha	Marginal models for binary longitudinal data with dropouts	3150	47	1	Abstract
2013	A. Sultana and J. Gulshan	Quantile regression models with partially functional effects for randomly right censored data: A simulation study	51-61	47	1	Abstract
2013	H. Athar, Nayabuddin, and S.K. Khwaja	Recurrence relations for single and product moments of generalized order statistics from doubly truncated Makeham distribution and its characterization	63-71	47	1	Abstract
2013	W.A. Sayed, E.-S.A. Elsherpieny, and M.M. El-Fahham	Bayesian estimation for the β -beta-Birnbaum-Saunders distribution	73-94	47	1	Abstract
2013	A.K.M.E. Saleh	L-estimation of the parameters in a linear model based on a few selected regression quantiles	95-105	47	1	Abstract
2012	C. Ding	Parallel analysis to determine the number of dimensions in multidimensional scaling analysis	19-30	46	1	Abstract
2012	K. Mutangi	On how to find the norming constants for the maxima of a folded normally distributed variable	31-35	46	1	Abstract
2012	M. Arashi and Z. Jafari	Optimal Stein-rule estimator under quartic loss function	37-48	46	1	Abstract

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