Summary: This paper studies the estimation problem when the single parameter Pareto distribution has change points. The maximum likelihood estimation method and the Bayesian method are used to estimate the change points of the single-parameter Pareto distribution, and the Matlab software is used for stochastic simulation. The results show that compared with the maximum likelihood estimation, the estimated value of the Bayesian method is closer to the true value.

MSC:
62G10 Nonparametric hypothesis testing
62E15 Exact distribution theory in statistics

Keywords:
Pareto distribution; change-point; Bayesian estimation; maximum likelihood estimation

Software:
Matlab