

Estimation of parameters in skew-normal family using Inferential Models

By

Ziwei Ma, Xiaonan Zhu, Baokun Li, and Tonghui Wang

New Mexico State University and Southwest University of Finance and Economics

Inference on parameters of skew normal population is a challenge problem as its problematic likelihood function. Inferential Models (IMs) is a novel method which is free of prior distribution and depending on data. Based on IMs, the plausibility regions, counterparts of classical confidence regions, are constructed for location and skewness parameter of skew normal population.