عنوان مقاله:

The gamma odd power generalized Weibull-G family of distributions with applications

محل انتشار:

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خلاصه مقاله:

A new generalized distribution called the gamma odd power generalized Weibull-G family of distributions is developed and studied. Some special models of the new family of distribution are explored. Statistical properties of the new family of distributions including the quantile function, ordinary and incomplete moments, probability weighted moments, stochastic ordering, distribution of the order statistics, and Rényi entropy are presented. The maximum likelihood method is used for estimating model parameters, and Monte Carlo simulation is conducted to examine the performance of the model. The flexibility of the new family of distributions is demonstrated by means of two applications to real data sets.

کلمات کلیدی:

Generalized distribution, Maximum likelihood estimation, Power generalized Weibull distribution

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