Abstract

In this paper, the Generalization of the U-Quadratic Distribution using the quadratic rank transmutation map is developed called L-Quadratic (LQ) distribution with some important related integrations. Most of the mathematical properties are studied and the model parameters are estimated by the maximum likelihood method. Finally, an application to generated data sets is illustrated.

References


**Index Terms**

- Computer Science
- Applied Mathematics

**Keywords**

U-Quadratic distribution, Transmutation Map, Maximum Likelihood Estimation, Survivor Function, Cumulative Hazard Function, Harmonic Mean, Moments, Moment Generating Function.