A study of Length-biased Distributions and Their Transformations.

The length-biased distribution arises as a weighted form of a lifetime distribution, via a process which distorts the probability of observations being selected. Transformations of a distribution are necessary to generate random variates for a numerical simulation. In this talk we present the length-biased concept and also provide interesting transformations of some of the length-biased versions of the life time distributions. (Received September 12, 2000)