

GRADUATE SEMINAR

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The Zero-truncated Poisson-weighted Exponential Distribution with application

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Abstract:

There are many data sets excludes zero count, such as number of languages spoken by a able human. At least one language is epected, some speak two or three, a few speak many. For such data sets contains positive integers only, estimation of parameters will be biased without using zero-truncated distributions. In this talk, the zero-truncated Poisson-weighted exponential distribution is introduced. Various theoretical properties of the distribution, such as probability generating function, moment generating function, characteristic function and moments are discussed. Some real data sets are applied to show the performance of the proposed distribution.

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