

Mixed Poisson Distributions

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Summary

Mixed Poisson distributions have been used in a wide range of scientific fields for modeling non-homogeneous populations. This paper aims at reviewing the existing literature on Poisson mixtures by bringing together a great number of properties, while, at the same time, providing tangential information on general mixtures. A selective presentation of some of the most prominent members of the family of Poisson mixtures is made.

Key words: Mixtures; Discrete distributions; Distribution theory; Mixing distribution; Overdispersion.