On Alpha Generalized Hyper-Poisson Distribution of Order k

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Abstract

The Poisson probability model is based on the assumption that events occur under the principle of complete randomness. But in numerous practical situations this principle does not hold. Consequently, the Poisson distribution has been generalized in several ways. Among them, the hyper-Poisson model and alternative hyper-Poisson model are of particular interest. In certain practical situations these models also fails to give good fit, but a model near to these models will be more suitable. So the objective of the present talk is to discuss certain recently developed families of distributions, which includes both the hyper-Poisson and alternative hyper-Poisson models are of its special cases.