A NEW DISTRIBUTION TO THE MODELING OF DISPERSION IN BINOMIAL DATA WITH APLICATIONS

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Resumen

The Bernoulli process is one of the most important random processes in Statistics. In the common case, given the probability of success, the outcome of one trial has no influence over the outcome of another trial. Unfortunately, many real-world applications with over- or under-dispersed data this assumption of independence is violated and the Bernoulli process or the Binomial variable derived of this process will be not useful, which limit their applications in Data analysis. In contrast, Dispersion count data are common in many applications which had lead to the developing of new statistical models. In this talk introduce the novel model named CMP Binomial which is an particular correlated binomial model. Data analysis to several applications are presented.