A SURVEY ON MODELS FOR PANEL COUNT DATA WITH APPLICATIONS TO INSURANCE

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Abstract

In insurance the expected number of claims per year given the observed characteristics of the covered risk is the basis for setting the price of a policy. Companies accumulate information of clients along several years, but in practice the panel data structure is not exploited. We review panel count data models that are useful in this context and present a new alternative based on the generalization of a compound sum.

Keywords

Panel Data, Random Effects, Conditional Distribution, Zero-Inflated Distribution, Hurdle Distribution, Compound Sum.

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