

Model selection in log-linear models by using information criteria

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Abstract

Log-linear models help to reveal association patterns among categorical variables that are widely encountered in sectors such as ecology, medicine and banking. These models are generally used in the analysis of contingency tables. In log-linear models deviance and chi-square statistics are mostly used to select the best model which fits data. Because the chi-square statistic is affected by sample size, information criteria such as AIC-type criteria are used lately in many areas.

In this study we purpose to apply and measure the efficiency of information criteria in log-linear models.

Keywords

Log-linear models, Contingency tables, Information criteria.

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