

Location and Magnitude of Change Points in Australian Road Accident Data

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The purpose of this study is to estimate the location and magnitude of changes in the intensity of casualty rates in Australian road accident data. The times of accidents are not always known precisely, and indeed some accidents are only known to have occurred during a 24 hour period. Further, there is a weekly cyclical change in the intensity of accidents. After allowing for this cyclical factor, the data appear to follow a Poisson process with one or more change points in the otherwise constant intensity. Confidence intervals and acceptability profiles are found for the location and magnitude of these change points.

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