

## **Analysing Concentrated Spatial Patterns of Events**

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Techniques for analysing spatial patterns of events (such as road accidents, earthquakes or cancer cases) are less well-developed than for other kinds of spatial data. Many of the standard techniques assume that the data are spatially homogeneous, or can be 'adjusted' to become homogeneous. This can lead to spectacular failures or errors when there is a high concentration of events, such as the clustering of earthquakes along a fault, or the clustering of road accidents around a city centre. This talk will discuss methodology and computational strategies for dealing with highly concentrated spatial patterns. Examples include a geological survey of the Western Australian goldfields and a database of all severe road accidents in Western Australia.