

# Automated Spatial Pattern Detection

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**Abstract.** Developing and applying geographical data analysis tools is an increasingly important and ongoing task. As has been reported at previous GeoComputation meetings, automated pattern and cluster detection is a vital area for modern geographers to exploit. This paper describes some problems that have been identified in the past few years that could have been detected earlier if more routine automated analysis of geographically referenced data had been carried out. The paper reports on some of the work carried out by the Centre for Computational Geography at Leeds in the past year towards developing highly automated geographical analysis technology. Previously reported analysis methods have been enhanced to handle time and attribute interactions, combined and made more accessible via an improved user interface.