GIS for Road Accident Analysis in Hong Kong

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Abstract
Road accident analysis is not new. It has come to attention as traffic fatalities had an explosive increase in the 50's and 60's, especially in the industrialized world and during the intense period of economic growth. This paper examines the potential use of the Geographic Information Systems (GIS) technology in facilitating road accident analysis in Hong Kong. Various point-pattern techniques are illustrated. While GIS can extend the visualization and analytical capabilities, its implementation in Hong Kong would hinge upon more comprehensive planning in data acquisition and integration. A master digital database on road systems of Hong Kong with a standardized structure and coherent naming conventions in both Chinese and English is fundamental to further GIS development in the area of road accident analysis.