
Enhancing Mobility Behavior Analysis Using Spatial Interactive Tools and Computer Intensive Methods

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Abstract

Since several decades, French urbanization evolves in a way that can hardly be seen favorable to public transportation. Innovation is needed in this field, if the individual automobile is to be faced on its own territories. This need for innovation concerns the miscellaneous stages of the public transport production, including the preliminary analysis ones. Indeed, many work remains to be done to understand mobility behavior, what is more if we are to propose versatile and viable alternatives to current trends.

The aim of this paper is to underline the relevance of exploratory spatial analysis strategies in a context of operational research. As a spatial phenomenon, mobility might be studied from a spatial point of view. Interactive visual analysis is a simple but powerful way of analyzing complex information. Moreover, desegregated but still synthetic approaches have to be privileged. Then, local numeric indicators are found to be much more useful than global ones. An example of such a strategy, led using the statistical package Xlisp-Stat, is exposed below, so as to support these assertions.
