Toward Identifying Neighborhoods: Activity-based Clustering Analyses

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RQ1: Can Transportation Patterns Be Used to Differentiate Activity Regions Within a City?

Motivation

Neighborhood boundaries are traditionally defined based on the demographics of a region of a city as well as socio-institutional affordances of these regions. We propose to explore ‘activity neighborhoods’ based on the how inhabitants of a city interact with regions via various modes of mobility.

Implications

- Different types of mobility data indicate different aspects of neighborhoods.
- Resolution of the signatures influences the shape of neighborhood boundaries.

Future Work

- To compare these neighborhoods to existing boundaries from a variety of sources.
- Adjusting resolution of the signatures to determine their influence on regional boundaries.

RQ2: Is there a notable difference between neighborhood regions identified via different modes of transportation?

Motivation

Implications

Future Work