Complex networks analysis of commuting: 
Recent advances and a research agenda.
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Abstract
The emerging new Science of Networks is providing an elegant paradigm for the characterization of the broad area of Complex Systems. New research perspectives have been opened in the study of many real phenomena and processes, and recently fields like urban, regional, and environmental sciences have gained new insights from the tools provided by Network Science. The complex networks analysis becomes a useful framework in these fields to disentangle problems of a complex and unpredictable nature.
This paper presents a research agenda on a number of operative tools borrowed from complex network analysis for regional studies: the comparative analysis of commuting systems, the investigation on the influence of spatial properties on complex networks, the detection of communities in commuting systems and the integration between network analysis and geographical information systems.

Keywords: complex network analysis, commuting, weighted networks, spatial analysis, regional studies, Geographic Information Systems

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