Special Issue

Spatial Structure Network and Urban Analysis for Sustainable Development

Message from the Guest Editors

This Special Issue will focus on new trends and characteristics of complex system networks such as urbanization, urban and social-economic spatial organization, and so on, to promote the interdisciplinary integration of geography, urban science, complex systematic science, big data and information science, social economics, and other disciplines. The aim is to enhance theoretical and empirical studies on the complexity of spatial networks. Original research, as well as review articles, are requested. Potential themes relevant to this research topic include, but are not limited to:

- Structural analysis and geographic information system (GIS) applications on the urban territory
- Spatial explorations of narratives, literary and imaginary places
- GIS and spatial analysis, including 3D modeling and spatial statistics
- Deep mapping, experiences of places
- Territorial representations, transgressions and boundaries
- Mapping mobility, spatial connections and networks
- Linking the map and the text: mixed-method approaches
- Methods based on spatial analyses for characterizing urban forms impacts

Guest Editors

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Deadline for manuscript submissions

closed (20 February 2024)

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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