

Special Issue

Sustainable Urban Design: Urban Externalities and Land Use Planning

Message from the Guest Editors

Urban externalities, such as agglomeration economies, traffic congestion, pollution, and a natural ecosystem, strongly affect the quality of urban life as well as the sustainability of cities. These externalities are related to each other. For example, exhaust gas due to road traffic causes air pollution, while agglomeration economies attract people at business areas, which increases population density at every location and brings about urban sprawl. Urban sprawl, furthermore, damages the natural ecosystem and increases traffic. In this manner, the interaction among urban externalities is very complex and spatially heterogeneous. Thus, it is necessary to elucidate the complex and spatial mechanisms when designing policies for urban externalities. This Special Issue focuses on designing land use and transportation policies with urban modeling. Land use and transportation policies can increase welfare and contribute to the sustainability of a city, changing the relative accessibility of various locations and agents and urban externalities.

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