

The Applications of 3D-City Models in Urban Studies

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Message from the Guest Editor

Cities are facing a digital transformation. This transformation process becomes visible through the concept of “smart cities”. Urban data have become a resource of high interest for a multitude of applications. Examples therefore are urban mobility, environmental and climate protection, waste management, sustainable use of energy, and the provision of city administration services. Smart services, smart data, and 3D city modeling are terms that stand for the future tasks of a digital economy and society.

This Special Issue aims at collecting examples of original research in urban studies using 3D city and landscape models. In many cases, the 3D city model is following the OGC standard CityGML, but research using other data models such as CityJSON, OSM, etc. is appreciated as well. The focus will be the additional value of 3D and sensor data that enable data-driven methodologies to find new solutions to urban issues such as transportation, energy demand, urban climate, air quality, flooding, safety, citizens perception/emotional maps, and the social city. Submissions which cover but are not limited to these topics are highly welcome.



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