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Digital Twin for Smart Cities: Linking the Physical and Digital Built Environment

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Message from the Guest Editors

Dear Colleagues,

Cities are running with different types of inter-connected systems intended for the better management of urban and natural resources of cities to improve the quality of life of their residents, giving rise to the so-called digital twin cities. These new services promise to be the answer to many societal problems. However, the rapid shift also brings many challenges.

In response to these challenges, this Special Issue will focus on how ontology catalogs can be more effectively used to design and develop smart city applications. This issue will explore, but not be limited to, the following topics:

- Linked data and the semantic web technology applications in cities
- Smart buildings and asset management
- Autonomous vehicles and smart transportation system
- Circularity and repurpose materials
- Infrastructure asset management
- Ontology development in smart cities
- Ontology evaluation in the domain of smart cities
- Automated ontology matching
- Case studies and implementations of smart cities
- Towards a semantic construction digital twin

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Message from the Editor-in-Chief

Smart Cities provides an advanced forum for the dissemination of information on the science and technology of smart cities. It publishes reviews, regular research papers (articles) and communications in all areas of research concerning smart cities. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers so that the full experimental results can be reproduced. Manuscripts regarding research proposals and research ideas are particularly welcome.

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