



Applications of Big Data and Emerging Technologies for Sustainable Urban Development

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Message from the Guest Editors

Big data and other emerging technologies (for example, information and communications technologies (ICT)) are transforming the ways humans interact with the built and natural environment, having the promise of improving the quality of life and well-being of many.

This Special Issue encourages researchers to present recent outcomes and achievements regarding their applications of big data and emerging technologies for sustainable urban development. Topics of interest include, but are not limited to, the following:

- Advanced sensing and data collection in smart cities;
- Big data analytics in the urban context;
- ML and AI for sustainable urban development;
- Modelling and optimisation of urban systems;
- Large-scale simulation and digital twin for urban systems;
- Urban system as a cyber–physical system;
- Urban system interdependency;
- Impacts of emerging technologies (e.g., connected and automated vehicles, ride-hailing services) on accessibility, mobility, environment, health, equity, and so on;
- Urban system resilience and climate change;
- Big data and emerging technologies in other aspects (e.g, environment, energy).





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Message from the Editor-in-Chief

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