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# AI-Enhanced 4D Geospatial Monitoring for Healthy and Resilient Cities

Guest Editor:

#### Dr. Ram C. Sharma

Department of Informatics, Tokyo University of Information Sciences, 4-1 Onaridai, Wakabaku, Chiba 265-8501, Japan

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## **Message from the Guest Editor**

Four-dimensional geospatial data, including the dimension of time, provide critical information for a deeper understanding of our ever-changing urban landscapes. This empowers us to develop sustainable urban strategies by considering local micro-climates, urban heat islands, and flood risks, leading to the development of healthier and more resilient cities. Four-dimensional monitoring exposes the facets of urban expansion, environmental impacts, and the evolution of infrastructure. The application of AI in analyzing these data yields profound insights into the dynamics of environmental change and ecosystem sustainability. The topics include, but are not limited to:

- urban sustainability
- remote sensing and geospatial technology
- urban geomorphology
- vegetation and public health
- urban ecosystem analysis
- Al, machine learning, and deep learning
- urban design and micro-climatic conditions
- green infrastructures and water management systems
- lidar and photogrammetry
- extreme weather events and heat stroke
- air quality and public health
- spectral analysis and biodiversity indices
- social issues and urban resilience strategies











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# **Prof. Dr. Giulio Nicola Cerullo**Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

# **Message from the Editor-in-Chief**

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