Special Issue

Digital Twin Ecosystems: Data Governance, Commoning, and Ethical Urban Futures

Message from the Guest Editors

The Special Issue aims to:

- Synthesize cutting-edge research on governing urban and regional data within digital twin environments and complex ecosystems.
- Discover and explore new models of urban commons that leverage human-centric, real-time, live, and shared simulations of collective decision-making, urban planning and policy.
- Propose ethical guidelines and design principles ensuring that digital twins foster just, trustworthy, resilient, and participatory urban futures.
- Bridge theory and practice by showcasing transferable and interoperable methodologies, tools, and lessons learned from pilots and prototypes.

- Connecting data governance research (e.g., interoperability, privacy, standardization, validation) with applied studies capable of generating practical and actionable guidelines for city planners and practitioners.
- Integrating commons and institutional scholarship with digital twin research to advance models of shared urban capabilities and governance arrangements.
- Prioritizing ethical stewardship over purely performance-driven metrics, by way of refocusing the scientific discourse on marginalized urban voices and participation.

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Deadline for manuscript submissions

1 May 2026

Urban Science

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About the Journal

Message from the Editor-in-Chief

Urban Science is a scholarly international journal which provides a platform for the exchange of theories, ideas, methods, analyses, and comparative studies of urban and regional development. It is a peer-reviewed, open access journal that publishes high quality original articles, theoretical essays, critical reviews, research notes, and shorter communications. Its broad definition of "science" includes both quantitative and qualitative methods of social, environmental, and spatial analysis. There is no restriction on the maximum length of the papers.

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