

Special Issue

Urban Systems Design: Planning, Design, and Construction of Smart and Connected Communities

Message from the Guest Editors

Cities around the world are facing challenges linked to a growing and aging population, increasing environmental risks due to climate change, and impacts of the pandemic on future urban living. Entering this new era, methods for transforming communities and cities through urban systems design are critical. We are looking for emerging theories, technical solutions, empirical studies, or design test beds by integrating urban design and big data analytics, and/or ideas regarding how intelligent technologies and innovations can be applied to urban systems, such as new urban infrastructures, smart materials, urban sensors and the Internet of Things, digital twin systems, and urban automation, including self-driving cars and urban air mobility. Topics of this Special Issue include but are not limited to:

- Urban systems design;
- The future of urban sustainable technologies;
- Urban systems for climate change mitigation and adaptation;
- Smart, sustainable, and resilient civil infrastructure systems;
- Big data analytics for smart cities;
- The future of urban growth, safety, health and wellness, accessibility, and overall quality of life in smart and connected communities.

Guest Editors

Dr. Perry Pei-Ju Yang

School of City and Regional Planning and School of Architecture,
Georgia Institute of Technology, Atlanta, GA 30332, USA

Dr. Soowon Chang

School of Construction Management Technology, Purdue Polytechnic
Institute, Purdue University, West Lafayette, IN 47907, USA

Deadline for manuscript submissions

closed (31 October 2022)



Urban Science

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.7



mdpi.com/si/92792

Urban Science
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
urbansci@mdpi.com

mdpi.com/journal/

urbansci





Urban Science

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 3.7



[mdpi.com/journal/
urbansci](https://mdpi.com/journal/urbansci)



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.

Editor-in-Chief

Prof. Dr. Luis Hernández-Callejo

Department of Agricultural and Forestry Engineering, University of Valladolid, Campus Duques de Soria, 42004 Soria, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science) and other databases.

Journal Rank:

JCR - Q1 (Geography) / CiteScore - Q1 (Urban Studies)