Special Issue

Integrated Assessment Methods for Small Urban Spaces Performance Under Climate Change

Message from the Guest Editors

Climate change is radically transforming the way in which cities should be designed, managed and adapted. In this scenario, "Small Urban Spaces" can play an important role. These are small areas such as squares, courtvards, neighborhood parks, pedestrian streets and urban interstices. Despite their small size, these areas can be appropriately designed to improve local climate resilience while enhancing urban quality of life and even social cohesion. IT tools that can provide reliable models of the performance of these spaces are currently available. These models can be used to assess environmental parameters under climatic stress conditions (heat waves, extreme precipitation, air pollution). However, the results are strongly influenced by the quality of the reference data. Furthermore, it is necessary to consider aspects that the digital model is not yet able to control effectively, especially with regard to more subjective and behavioral aspects. Thus, integrated methods that combine the following multidisciplinary approaches must be developed: urban planning, climatology, ecology, sociology, engineering and data science.

Guest Editors

Dr. Marco Ferrero

Department of Civil, Construction and Environmental Engineering, Sapienza University of Rome, Via Eudossiana 18, 00184 Rome, Italy

Dr. Federica Rosso

Department of Civil, Construction and Environmental Engineering, Sapienza University of Rome, 00185 Rome, Italy

Deadline for manuscript submissions

30 June 2026



an Open Access Journal by MDPI

Impact Factor 2.3 CiteScore 4.9



mdpi.com/si/251758

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

mdpi.com/journal/ atmosphere





an Open Access Journal by MDPI

Impact Factor 2.3 CiteScore 4.9



About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))

