

Special Issue

Utilization of Spatial Analysis and GIS to Improve Public Health

Message from the Guest Editor

Geospatial technologies and spatial analysis are playing an increasingly vital role in public health research, policy, and decision-making. The ability to analyse, visualise, and interpret health-related data through Geographic Information Systems (GIS) has opened up new avenues for understanding disease patterns, healthcare accessibility, environmental health risks, and health disparities. The integration of spatial analytics with emerging datasets—such as real-time mobility data, environmental monitoring, and social determinants of health—provides unprecedented opportunities to enhance public health planning and interventions.

This Special Issue invites the submission of original research that advances the utilisation of spatial analysis and GIS to address pressing public health challenges. Topics of interest include, but are not limited to, spatial epidemiology, health disparities mapping, environmental health exposure assessment, accessibility to healthcare services, predictive modelling for disease outbreaks, spatial analysis in health, and the role of GIS in health equity and policy-making.

Guest Editor

Dr. Ori Gudes

1. School of Population Health, Faculty of Medicine, University of New South Wales, Kensington Campus, Sydney, NSW 2052, Australia
2. Australian Urban Observatory (AUO), Centre for Urban Research, RMIT University, Melbourne, VIC 3000, Australia

Deadline for manuscript submissions

31 December 2025



International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 8.5
Indexed in PubMed



mdpi.com/si/233860

*International Journal of
Environmental Research and
Public Health*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijerph@mdpi.com

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





International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 8.5
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Paul B. Tchounwou

RCMI Center for Urban Health Disparities Research and Innovation,
Richard N. Dixon Research Center, Morgan State University, Baltimore,
MD 21251, USA

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Public Health, Environmental and Occupational Health)