



*environments*

an Open Access Journal by MDPI



## Development of Advanced Landfill Methods and Remote Sensing for Landfill Monitoring

Guest Editor:

**Prof. Dr. Takayuki Shimaoka**

Department of Urban and  
Environmental Engineering,  
Faculty of Engineering, Kyushu  
University, 744, Motooka, Nishi-  
ku, Fukuoka 819-0395, Japan

Deadline for manuscript  
submissions:

**closed (13 August 2021)**

### Message from the Guest Editor

Satellites, airplanes, balloons, and drones, as the main platforms in remote sensing technology, can be used for the construction of landfill sites, landfill daily work management, and the environmental monitoring of landfill sites and the surrounding environment. By making full use of visible/near-infrared cameras, multispectral imagers, thermal graphic devices, laser scanners, and remote sensors of synthetic aperture radars, it is possible to grasp detailed information from the classification of landfill surface characteristics, surface temperature, plant activity, properties of landfill waste, landfill waste elevation, and landfill waste volume. It is also possible to observe the level of changes by continuously measuring the physical quantity of landfill waste. Another advantage of remote sensing is that historical information for most geographic regions can be obtained. In this Special Issue, we call for papers on practical examples, case studies, and unique utilization methods of remote sensing technology that contribute to the environmentally safe landfill disposal from the construction stage to the completion stage and even after landfill post-closure.



[mdpi.com/si/51592](https://mdpi.com/si/51592)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Sergio Ulgiati**

1. Department of Science and  
Technology, Parthenope  
University of Naples, Centro  
Direzionale, Isola C4, 80143  
Napoli, Italy  
2. State Key Joint Laboratory of  
Environment Simulation and  
Pollution Control, School of  
Environment, Beijing Normal  
University, No. 19 Xijiekouwai  
Street, Beijing 100875, China

## Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

## 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)**, **PubAg**, **AGRIS**, **GeoRef**, and **other databases**.

**Journal Rank:** CiteScore - Q1 (*Ecology, Evolution, Behavior and Systematics*)

## Contact Us

*Environments* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/environments](http://mdpi.com/journal/environments)  
[environments@mdpi.com](mailto:environments@mdpi.com)  
[X@Environ\\_MDPI](#)