



## Advances in Ground Deformation Monitoring

Guest Editor:

**Dr. Philippa J. Mason**

Department of Earth Science and  
Engineering, Imperial College  
London, London, UK

Deadline for manuscript  
submissions:

**closed (20 February 2022)**

### Message from the Guest Editor

Much progress has been made in the development of techniques for the detection and measurement of all kinds of ground motion from remote platforms and sensors, to complement those made using conventional ground-based techniques.

Spaceborne InSAR is widely used for the precise detection, measurement and monitoring of ground deformation, and it is a very efficient and cost-effective method of doing so over areas of large spatial extent, at reasonably high temporal frequency, and without the need for ground-based instrumentation. Differential InSAR is now used for monitoring volcanic activity, earthquake deformation, effects of carbon sequestration, mining, engineering and hydrology-related subsidence and more. Recent advances in methods in data processing and sensor technology have enabled great improvements in measurement reliability and precision, through repeated observations over long time frames and at high resolutions.

This issue is intended for a wide and multidisciplinary audience and presents some of the most recent advances and novel approaches in the detection, measurement and monitoring of ground deformation.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## 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), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)