



an Open Access Journal by MDPI

## Point Cloud and Image Analysis for the Measurement of the Physical Form of Cities

Guest Editors:

**Dr. Lucía Díaz-Vilarinho**

Circunvalación ao Campus  
Universitario, 36310 Vigo,  
Pontevedra, Spain  
lucia@uvigo.es

**Prof. Dr. Antonio Fernández**

Department of Engineering  
Design, Universidade de Vigo,  
Vigo, Spain  
antfdez@uvigo.es

**Dr. Vítor Oliveira**

CITTA (Centro de Investigação do  
Território, Transportes e  
Ambiente), Faculdade de  
Engenharia, Universidade do  
Porto, s/n, R. Dr. Roberto Frias,  
4200-465 Porto, Portugal  
vitorm@fe.up.pt

Deadline for manuscript  
submissions:

**30 September 2020**

### Message from the Guest Editors

Dear Colleagues,

In the recent years, remote sensing has become a de facto technology for documenting and modelling the physical form of cities. Remote sensing—terrestrial, aerial, and satellite—has proven to be a suitable approach to effectively collect data at a large scale. This Special Issue aims at collecting the recent advances in the use of remote sensing data for the measurement of the physical form of cities. We welcome submissions on the integration of measurement techniques with existing morphological theories, concepts, and methods. Specific topics include, but are not limited to, the following:

- New remote sensing technologies for urban measurement;
- Image processing for large-scale urban modelling;
- 3D modelling of urban areas from point cloud processing;
- Spatial analysis of urban-landscape changes;
- 3D analysis of urban landscape;
- 3D space syntax;
- Urban structure analysis based on 2D and/or 3D morphology;
- Impacts of 3D morphology on the urban environment and ecology.



[mdpi.com/si/30508](https://mdpi.com/si/30508)