



## 3D Computer Vision in Urban Heritage

Guest Editors:

### Prof. Antonio Adán

Department of Electrical  
Engineering, Electronics,  
Automatics and Communication.  
University of Castilla La Mancha

Antonio.Adan@uclm.es

### Dr. Pilar Merchán

Department of Electrical  
Engineering, Electronics and  
Automatics. Universidad de  
Extremadura, Badajoz, Spain

pmerchan@unex.es

### Dr. Emiliano Pérez

Department of Electrical  
Engineering, Electronics and  
Automatics. Universidad de  
Extremadura, Badajoz, Spain

emilianoph@unex.es

### Dr. Santiago Salamanca Miño

Department of Electrical  
Engineering, Electronics and  
Automatics. Universidad de  
Extremadura, Badajoz, Spain

ssalaman@unex.es

Deadline for  
manuscript submissions:

**1 September 2021**



mdpi.com/si/43793

### Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on new 3D computer vision techniques and applications in urban heritage. Works related to 3D data acquisition, preprocessing, segmentation, recognition, and modeling in the urban heritage context are required. More specifically, some topics related to this Special Issue are:

- New 3D data acquisition techniques and strategies for urban heritage (photogrammetry, shape from motion, terrestrial and aerial laser scanners, etc.);
- 3D data registration and data integration from multisensory platforms;
- Semantically-rich 3D models of heritage buildings;
- 3D thermal models of heritage buildings;
- 3D heritage building modeling;
- Preprocessing stages for urban heritage data;
- Classification, recognition, and interpretation of 3D data in the urban heritage context;
- Parallel processing algorithms applied to urban heritage;
- Applications of 3D computer vision techniques to solve problems related to cultural heritage.

Finally, review articles that summarize the current state-of-the-art and discuss the gaps in the research regarding urban heritage are also welcome.

Prof. Antonio Adán

Dr. Pilar Merchán

Dr. Emiliano Pérez

Dr. Santiago Salamanca Miño

Guest Editors

# Special Issue