Optical 3D Sensing Technology and Application

Guest Editors:

Dr. Lei Lü
College of Information Science
and Engineering, Henan
University of Technology,
Zhengzhou, China

Dr. Yongkai Yin
School of Information Science
and Engineering, Shandong
University, Jinan, China

Deadline for manuscript
submissions:
closed (20 June 2023)

Message from the Guest Editors

Dear Colleagues,

Three-dimensional information plays an essential role in many scenarios, such as industry, medicine, entertainment, etc. Optical 3D sensing is a key technology acquiring 3D information because of its advantages of non-destructiveness and high efficiency. With the development of the imaging principle, opto-electronic devices, computational hardware, artificial intelligence, etc., optical 3D sensing technology has been increasingly promoted. This Special Issue focuses on recent developments in optical 3D sensing technology and their applications in various scenarios.

The topics of interest include (but are not limited to) the following:

- Optical 3D sensing;
- Three-dimensional reconstruction;
- Three-dimensional data processing;
- Three-dimensional image acquisition and display;
- Stereo vision;
- Single-pixel imaging and sensing;
- Deep-learning-based 3D sensing;
- Three-dimensional sensing on robot;
- Three-dimensional sensing on biomedicine;
- Three-dimensional sensing on navigation;
- Three-dimensional sensing on inspection;
- Three-dimensional sensing on cultural heritage.

Special Issue