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Advances in 3D Measurement Technology and Sensors

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Message from the Guest Editor

At present, 3D measurement technologies such as structured-light illumination, interferometry, stereo vision, time of flight (ToF), X-ray imaging, ultrasonic imaging, and magnetic resonance imaging are playing essential roles in many fields (e.g., industrial manufacturing, remote sensing, biomedicine, optical engineering, and computer vision). There is a rapidly growing interest in employing these technologies for more potential applications.

In recent years, the advent of the big data era has brought about the vigorous development of Internet and computer technology. Benefiting from the abundant accessible data, machine learning techniques such as deep learning are offering new opportunities for the development of novel 3D measurement technologies and sensors.

This Special Issue invites contributions addressing topics including but not limited to the following:

- Three-dimensional shape and deformation measurement;
- Three-dimensional reconstruction;
- Three-dimensional data processing;
- Three-dimensional sensors and devices;
- Three-dimensional imaging;
- Depth data acquisition and processing;
- Artificial-intelligence-assisted 3D techniques.



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Special Issue



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Message from the Editor-in-Chief

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