# Topical Collection

# 3D/4D Optical Imaging Sensors for Surface Measurement, Processing and Applications

### Message from the Collection Editor

In recent years, we have observed a dynamic development of sensors allowing the imaging of surfaces of static (3D) and dynamic (4D—in motion) objects. The most dominant role is played by sensors operating in the optical band, starting from infrared, through to the visible band, and the ultraviolet. We are witnessing exponential progress in processing and inference techniques for recorded 3D/4D data. Current approaches enable the integration of measurement and processing in one sensory solution, allowing for the automation of processing and inference based on registered data. Optical sensors provide redundant data in many cases, and it is only thanks to processing that it is possible to efficiently process, reduce, and deliver the signal required for specific tasks in the end. Topics in this Special Issue can include (but are not limited to): - 3D/4D optical imaging sensors for surface measurement;
- 3D/4D automated data processing from raw sensor data to final sensor output;
- Applications of 3D/4D optical imaging sensors for surface measurement.

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*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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