# **Special Issue**

# Advanced Optics and Sensing Technologies for Telescopes

## Message from the Guest Editor

The development of astronomy is always linked with advanced optical instruments. Astronomers first used visible light to study the universe, then expanded to non-visible light such as radio waves, infrared rays, X-rays, ultraviolet rays, and gamma-rays. All of the deployed and on-going observatories require continuous improvements in terms of large and precision optical surface fabrication and advanced telescope system development. Therefore, the current state of the pivotal technologies and effective solutions to the presented challenges for telescope system are the key areas of this Special Issue. The areas of interest include, but are not limited to, the following:

- Designs of modern large optical telescopes;
- Telescopes for gravitational wave detection;
- Aspherical and freeform mirrors for high-resolution telescopes;
- High-energy optical/IR/FIR detectors;
- Wavefront sensing and wavefront control;
- Active and adaptive optics and laser guide star facility;
- Advanced manufacture technology for large-aperture telescopes;
- Control systems and structural, mechanical, and thermal engineering;
- High-resolution spectrometer for telescopes.

## **Guest Editor**

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# Deadline for manuscript submissions

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## Message from the Editor-in-Chief

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.

#### Editor-in-Chief

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