



## Photonics-Based Photoelectric Detection and Sensing Techniques

Guest Editor:

**Dr. Aung Ko Ko Kyaw**

Department of Electrical &  
Electronic Engineering, Southern  
University of Science and  
Technology, Shenzhen 518055,  
China

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### Message from the Guest Editor

Dear Colleagues,

In recent years, photonic sensors have played a pivotal role in driving remarkable advancements across a wide spectrum of applications, including imaging, spectroscopy, communication, environmental monitoring, and healthcare.

This Special Issue is designed to serve as a comprehensive platform for the exchange of knowledge, ideas, and breakthroughs in various facets of photoelectric detection and sensing, encompassing photodetectors, X-ray detectors, photoelectric sensors, fiber optics, and quantum sensors across diverse sensing applications. Topics of interest include, but are not limited to, the following:

1. Photodetectors and photodiodes for sensing applications;
2. Photonic sensors for environmental monitoring;
3. Imaging techniques using photonics;
4. Fiber-optic sensors and their applications;
5. Plasmonic and metamaterial-based sensing;
6. Quantum sensing and quantum photonics;
7. Optoelectronic devices for medical diagnostics;
8. Non-invasive sensing methods;
9. X-ray detectors for imaging;
10. Photonics for industrial and agricultural sensing.

