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## Advances in Optical Sensing, Instrumentation and Systems

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Deadline for manuscript  
submissions:  
**closed (25 March 2024)**

### Message from the Guest Editors

Dear Colleagues,

The goal of this Special Issue is to introduce recent advances among optical sensing, instrumentation and systems. This involves medical imaging, virtual reality, 3D reconstruction, automatic driving devices, optical system optimization, internet of things, security facilities, navigation systems, computer vision devices, optical materials, optical battery, and so on.

Topics of interest include, but not limited to:

- Optical coherence tomography in biometrics and diagnosis;
- The implementation of deep learning in optical systems;
- The optimization of optical systems using nature-inspired optimization methods;
- 3D reconstruction of uncalibrated visual system in arbitrary scene;
- Image and signal processing in optical sensing, instrumentation and systems;
- Advance laser technology and optical navigation;
- Nano-optics technology;
- Optical sensing, measurement and diagnosis;
- Endoscopic microscopy;
- Visual sensing, Computer vision;
- AI applications in optical sensing;
- Spectrum detection and analysis;
- Fiber sensors;
- Surface plasmon resonance technology.



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Dr. Xin Zhu

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**Special Issue**



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## Message from the Editor-in-Chief

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