



Advances in Photoelectric Tracking Systems

Guest Editors:

Dr. Yao Mao

1. Key Laboratory of Optical Engineering, Chinese Academy of Sciences, Chengdu 610209, China
2. Institute of Optics and Electronics, Chinese Academy of Sciences, Chengdu 610209, China
3. University of Chinese Academy of Sciences, Beijing 101408, China

Prof. Yutang Wang

Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, Changchun, China

Deadline for manuscript submissions:
closed (10 October 2023)

Message from the Guest Editors

The photoelectric tracking system is a complicated and highly precise piece of equipment integrating optics, mechanical components, electricity, and control. It has a significant impact on the fields of quantum communication, space laser communication, astronomical observations, moving-target tracking, and aerospace.

To offer a relevant perspective on the status and prospects in this field to date, we cordially encourage the submissions of original research papers, communications, and review articles. The current Special Issue focuses on the most recent advancements in related theory, design, fabrication, and application with regard to photoelectric tracking systems. The topics of interest include, but are not limited to, the following areas:

1. Photoelectric tracking system;
2. Precision tracking;
3. Mechanical design;
4. Optical engineering;
5. Vibration suppression;
6. Active disturbance rejection control;
7. Disturbance observer-based control;
8. Fuzzy control;
9. Friction rejection;
10. Predictive filtering;
11. Signal processing;
12. Sensor fusion;
13. Picture processing;
14. Autonomous intelligence.

