Challenges and Future Directions in Adaptive Optics Technology

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Deadline for manuscript submissions:
10 September 2024

Message from the Guest Editors

We are excited to announce a call for papers for our upcoming Special Issue "Challenges and Future Directions in Adaptive Optics Technology" in *Photonics*. This is a platform used to explore the recent developments, current practices, and future trends in adaptive optics and related fields. Adaptive optics systems and components have achieved a level of sophistication and simplicity that goes beyond the traditional applications in astronomy and into multiple developments, including biology, medicine, manufacturing, communications, ophthalmology, vision science, microscopy, high-energy beam control, and so on. These developments introduce many exciting possibilities. One distinctive tool is AI-powered adaptive optics technology. However, with various communities pursuing different applications of AO and its novel methods, this technology will face many challenges from technical and engineering aspects.

Special Issue