



Recent Advances and Applications of Adaptive Optics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Adaptive optics as a field of modern science began in the early 1950s after the publication of pioneer articles by astrophysicists Babcock and Linnik. Until the 1980s, it was in demand by astronomers and military personnel to compensate for the aberrations of laser radiation passed through the turbulent atmosphere. In the 1990s, papers were published on the use of adaptive optics devices for diagnosing aberrations of the human eye, as well as obtaining a diffraction image of the retina. In the 2000s, adaptive optics was introduced into microscopy to sharpen images obtained through living tissue. There is now a certain renaissance of interest in the propagation of radiation through a turbulent medium.

For almost 70 years, adaptive optics has grown to a major area of modern science, which is at the intersection of scientific and applied problems in optics, atmospheric physics, electronics, laser physics, as well as biology and medicine.

In this Special Issue, we aim to provide a selection of original research articles, reviews, and perspectives reporting the latest advancements in the research of adaptive optics and their applications.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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