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Active Optics

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Deadline for manuscript submissions:
closed (15 March 2023)

Message from the Guest Editors

Dear Colleagues,

Over the past fifty years, active optics have provided high-deformation freeform surfaces (low-temporal-frequency) with extreme accuracy for large telescopes, spectrographs, and interferometers. Remote control positioning has also helped to improve image quality.

This Special Issue of Photonics seeks contributions dealing with high-angular resolution imaging and optical designs with a reduced number of optical surfaces.

Articles dealing with the following themes are welcome:

- Freeform mirror or reflective diffraction grating surfaces: multi-mode aberration correction, off-axis paraboloid, toroid, axisymmetric aspheric, variable curvature, etc.
- Freeform lens, lens-system, or refractive diffraction grating surfaces: toroid, coma correction, axisymmetric aspheric, deformable zoom lenses, etc.
- Remote control positioning surfaces.