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Computational Imaging: Progress and Challenges

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Deadline for manuscript submissions:
closed (10 March 2024)

Message from the Guest Editors

Computational Imaging Technology refers to a novel imaging method. It is different from the"what you see is what you get" information acquisition and processing methods of traditional optical imaging. Indeed, information utilization and interpretation capability can be superior to traditional imaging, since it finally enables the realization of the "higher (resolution), longer (detection range), and larger (optical field of view)" requirements of photoelectric imaging.

This Special Issue invites manuscripts that explore the recent advances in "Computational imaging". All theoretical, numerical, and experimental papers and reviews are welcome. Topics include, but are not limited to, the following:

- Principles and theories of computational imaging;
- Scattering imaging and non-field-of-view imaging;
- Three-dimensional imaging;
- Polarization imaging;
- Holographic imaging;
- Computational spectral imaging;
- Single photon imaging;
- Micronano Optics and computational imaging;
- Biomedicine and computational imaging;
- Artificial intelligence and computational imaging;
- Frontier problems in computational imaging.

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