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Machine Learning Methods for Solving Optical Imaging Problems

Guest Editors: Message from the Guest Editors Dr. Junchao Zhang Dear Colleagues, Over the recent years, consistent efforts have been put into Dr. Xinglin Hou applying machine learning methods to address various Dr. Jianho Shao problems in optical imaging. Across a growing number of optical imaging techniques, machine learning shows better Dr. Yuli performance over conventional methods. This Special Issue aims to highlight the potentials of machine learning methods across a spectrum of optical imaging techniques, Deadline for manuscript including optical coherence tomography, photoacoustic submissions: spectroscopy, imaging, optical super-resolution 15 November 2024 microscopy and polarization imaging. Additionally, the objective is to investigate potential improvements of deep learning methods by leveraging prior knowledge of optical imaging systems, also known as physics-informed deep

contributions

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learning. Lastly, it aims to explore other emerging deep learning frameworks from the broader academic community, such as vision transformer, to provide

In this Special Issue, original research articles and reviews are welcome. We look forward to receiving your

additional solutions for optical imaging problems.





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Message from the Editor-in-Chief

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