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Optical Imaging and Measurements

Guest Editors:

Prof. Dr. Zixin Zhao

State Key Laboratory for
Manufacturing Systems
Engineering, School of
Mechanical Engineering, Xi'an
Jiaotong University, Xi'an, China

Dr. Feifei Gu

Shenzhen Institute of Advanced
Technology, CAS, Shenzhen,
China

Dr. Gaopeng Zhang

Xi'an Institute of Optics and
Precision Mechanics, CAS, Xi'an,
China

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Message from the Guest Editors

Dear Colleagues,

An optical wave carries plenty of information by modulating its amplitude, phase, polarization or coherence. As a result, different types of imaging and measurement techniques have been developed. Traditional optical imaging is two-dimensional, and thus, what you see is what you get. Modern optical imaging is multidimensional, meaning what you compute is what you get. Computational optical imaging restores image information by accurately characterizing multidimensional light fields and using advanced modulation and demodulation techniques. It provides a new way to break through the limitations of traditional imaging technology. A large number of exciting research developments are helping to continuously improve the performance of these optical imaging and measurement techniques under different situations. Hence, real-time imaging and dynamic measurements with high resolution and accuracy are increasingly becoming a reality.

The objectives of this Special Issue are to report on the advances in optical imaging and measurements.



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Special Issue