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Complex Light and Optical Forces XII

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David L. Andrews
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Editors

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Introduction

The 2018 edition of the conference Complex Light and Optical Forces XII featured 58 submissions. The high number of presentations spanned three full days of the Photonics West Meeting in San Francisco, California. The themes of the conference included fundamental findings on complex light beams and research on new interactions between light and matter. Topics of much interest today that were discussed in the presentations include the generation and detection of spatial modes in new ways, further studies of modes that combine spatial and polarization aspects of light, and the role of chirality in forces of interactions between light and matter.

The set of articles in this volume are representative of the discussions at the conference, featuring both fundamental and applied aspects of complex light and interactions. They are indicative of the vitality of this line of research that continues to grow with newly discovered phenomena and new applications.

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