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Optics and Photonics for Information Processing XII

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Introduction

The conference of Optics and Photonics for Information Processing celebrated this year its twelfth edition in such an excellent venue as the Convention Center in San Diego. Evolution and new trends in this field are closely reflected in the presentations being delivered every year. We thank both the old and new presenters who decided to share their latest results in this conference with engaging enthusiasm! It was interesting see some insurgence of the optical computing research.

This year more than 40 presentations have composed the program of the conference. It consisted of two intensive days during which we had a very fruitful time sharing with authors and large number of audiences in a very lively and creative atmosphere. The topics covered by the conference are organized in eight sessions in the subjects of Imaging Techniques and Processing, Holography and Devices, Optical Computing and Photonic Systems, Imaging Technologies and Applications, Neural Networks and Machine Learning, Algorithms and Detection, Digital Image Processing and Encryption, Digital Image Processing and Systems. Just from these titles we appreciate the very diverse range of areas actually involved in Optics and Photonics for Information Processing.

Next year in San Diego, between 11-15 August 2019, we will have the opportunity to find out what have been, in the coming twelve months, the most appealing problems faced, and the original and innovative solutions proposed. We look forward to meeting both new and old colleagues and have in-depth and fruitful discussions with them. We must not forget to thank the SPIE staff for their excellent work not only during the conference but also before and after. And for the researchers, we wish you the best during this time and look forward to having you with us and share your latest results next year.

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