Special Issue

Recent Developments in Fringe Pattern Analysis for Optics and Photonics

Message from the Guest Editors

Interferometry is one of the most powerful and versatile techniques of measurement. It has driven great progress in science and technology for more than two hundred years, from its classical beginnings with Young, Fizeau, Michelson, Raleigh, and Sagnac (just to mention a few) to its modern version: digital interferometry or, in general, fringe pattern phase demodulation. Digital interferometry has made possible a new, wide range of applications and scientific breakthroughs: fast and cheap 3D digitizing, cryptography, photon entanglement, the first image of a black hole, the measurement of the mirrors of the James Webb telescope, and detection of gravitational waves. On the other hand, there are several important applications of fringe pattern phase demodulation in optical metrology, such as optical coherence tomography, fringe projection profilometry, speckle correlation, etc. We are pleased to invite you to this Special Issue of *Photonics* focused on fundamentals and applications that reflect the most recent developments and trends in fringe pattern analysis for optics and photonics.

Guest Editors

Dr. Manuel Servin

Dr. Gonzalo Paez

Dr. Moises Padilla

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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