

# PROCEEDINGS OF SPIE

## **Thirteenth International Conference on Correlation Optics**

**Oleg V. Angelsky**  
*Editor*

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**Alexander Bekshaev**, Odessa I.I. Mechnikov National University (Ukraine)
- 2 Optical correlation devices based on diffraction optical elements, optical sensors  
**Albert Ferrando**, Universitat de València (Spain)  
**Radu Malureanu**, Danmarks Tekniske Universitet (Denmark)
- 3 Optical correlation diagnostics, interferometry and microscopy of rough surfaces and random media  
**Miguel A. Alonso**, The Institute of Optics, University of Rochester (United States)  
**Valeriy Yashchuk**, Lawrence Berkeley National Laboratory (United States)
- 4 New applications of correlation optics in biology and medicine  
**Olexander Ushenko**, Yuriy Fedkovych Chernivtsi National University (Ukraine)  
**Igor Meglinski**, University of Oulu (Finland)

## Introduction

The Thirteenth International Conference on Correlation Optics continues the series of conferences with the same title held biannually at Chernivtsi National University (Ukraine) since 1993. More than 120 participants from 21 countries attended the conference, and more than 140 talks were presented. This volume includes oral and poster contributions on the following topics:

- Informative content of statistical optical fields, including singular optics, partial coherence and polarization
- Optical correlation devices based on diffraction optical elements, optical sensors
- Optical correlation diagnostics, interferometry and microscopy of rough surfaces and random media; Advanced materials, nanomaterials and devices for optics and optoelectronics
- New applications of correlation optics in biology and medicine

I am grateful to all participants of the conference, as well as to the members of the International Program Committee whose work provided high scientific value and organization of the conference.

**Oleg V. Angelsky**

