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Oleg V. Angelsky
Editor

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5 New applications of correlation optics in biology and medicine
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Introduction

The Twelfth 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 150 talks were presented.

This volume includes the invited talks as well as the best oral and poster contributions on the following topics:

1. Informative content of statistical optical fields, including singular optics, optical chaos, polarization optics and coherence;
2. Optical correlation devices on diffractive optical elements, including optical and digital holography, fractal optics and optical sensors;
3. Optical correlation diagnostics, interferometry and microscopy of rough surfaces and random media;
4. 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 and the Conference Organizing Committee whose work provided high scientific and organizing level of the conference.

Oleg V. Angelsky