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Novel Optical Systems Design and Optimization XXI

**Cornelius F. Hahlweg
Joseph R. Mulley**
Editors

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Introduction

The twenty-first annual conference for Novel Optical Systems Design and Optimization was held in San Diego, California, this year. We had a full one-day program. The four technical sessions were dedicated to Unconventional and Light Field Optics; Multi- and Hyperspectral Applications; and, as a double, to Novel Optical Systems and Methods, the latter covering several metrology and inspection systems. In addition, there was a poster session.

The session on Unconventional and Light Field Optics started with two invited papers from the VR world, chaired by R. Hamilton Shepard. Craig Olsen was responsible for Multi- and Hyperspectral Applications, which included highlights with spectral catalogue data, as they are highly appreciated among researchers. Stephan Fahr chaired the first "Novel" session, which brought up two mining-related topics: photogrammetry of underground excavations and inspection of mining products. Groot Gregory finished with the second "Novel" session, one highlight being optical designs represented and altered by "genetic expression programming" methods.

Our conference had several invited papers, some of which complemented each other in a surprising, or intended, way.

Our thanks go to all the speakers and authors who made this conference a coherent and interesting event. We are very grateful to those who helped make this conference a success, especially SPIE staff, the program committee, and of course, the interested audience, sparing no effort to keep the discussion going.

The SPIE staff ensured that everything ran smoothly before, during, and after the meeting.

The program committee provided excellent assistance to ensure the quality of the content while also presiding over a number of the sessions. Thanks to them for keeping our conference running smoothly and on time. Also, thanks to everyone else on our program committee for helping review the abstracts and paper submissions: Francois Callewaert, Joseph Choi, Arthur Davis, Peter Goldstein, Eric Herman, John Koshel, Sara Madaan, Bharathwaj Narasimhan, José Sasián, Hayin Sun and Udo Zölzer.

Next year, we will return for our twenty-second conference. The chairs will be Cornelius Hahlweg and Joseph Mulley. We look forward to seeing you in 2019!

Cornelius F. Hahlweg
Joseph R. Mulley

