Preface

The European Optical Society Annual Meeting, EOSAM, is a major international scientific conference covering all aspects of optics and photonics, through plenary and topical sessions, tutorials and industry exhibition. EOSAM was celebrated this year, in 2023, in France, at the Dijon Exhibition and Convention Center, organized by the European Optical Society, EOS, and La Société Française d'Optique, SFO, EOS Branch Society.

EOSAM included high-quality program organized around nine topical meetings, four focused sessions, posters and other special sessions. 510 attendees enjoyed the over 400 presentations during the week. An exhibition area for the photonics industry (over 20 exhibitors) has been set up at the heart of the conference. A wide range of optical technologies, from components to complete systems, was presented to meet the needs of both fundamental research and industrial applications. EOSAM this year included these sessions and topical meetings:

TOM1- Silicon Photonics and integrated optics
TOM2- Adaptive and Freeform Optics
TOM3- BioPhotonics
TOM4- Nanophotonics
TOM5- Optical Materials
TOM6- Nonlinear and Quantum Optics
TOM7- Optical frequency combs
TOM8- Ultrafast Optics
TOM9- Applications of Optics and Photonics

Focused Sessions:
- FS1: Special optical fibers
- FS2: Structured light
- FS3: Chiroptical Phenomena
- FS4: Machine-Learning for Optics, and Photonic Computing for AI

Opto-electronic Nanotechnologies and Microsystems
EU Project Session
Early Stage Researcher Session
Industrial mastering of optical technologies and systems, IMOTS
Industrial optics podium session
In addition, a call was made for submission of selected papers for publication in JEOS:RP, the journal of the European Optical Society, covering the latest advances in both theory and applications of optics and photonics grouped in the included program at the conference.

We would like to express our gratitude to the European Optical Society, the Société Française d'Optique, and the Dijon Exhibition and Convention Center together with all other partners, in addition to the chairs of the different TOMs and sessions for their support and help in the organization of the Conference. We finally want to acknowledge all the authors that have submitted their work to be included in this volume and especially thank all those collaborating persons who acted as reviewers of the papers included in this volume for their excellent work.

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