
FINAL CALL FOR PAPERS

13th International Conference on Optics-photonics



Design & Fabrication

“*ODF'22, Sapporo*”
August 3rd-5th, 2022



Sapporo Convention Center, Sapporo, Japan

Organized by

Optics Design Group of The Optical Society of Japan

Co-Sponsored by

JSAP (The Japan Society of Applied Physics)

In Cooperation with (to be confirmed)

CIE (Chinese Institute of Engineers) • COS (Chinese Optical Society) • DGaO (German Society of Applied Optics) • EOS (European Optical Society) • ICO (International Commission for Optics) • IEICE (The Institute of Electronics, Information and Communication Engineers) • IEIJ (The Illuminating Engineering Institute of Japan) • JIEP (Japan Institute of Electronics Packaging) • IIEEJ (The Institute of Image Electronics Engineers of Japan) • ITE (The Institute of Image Information and Television Engineers) • JOEM (Japan Optomechatronics Association) • JOMA (Japan Optical Measuring Instruments Manufacturers' Association) • JPS (The Physical Society of Japan) • JSMBE (Japanese Society for Medical and Biological Engineering) • **Japan Photonics Council** • JSPE (The Japan Society for Precision Engineering) • LSJ (The Laser Society of Japan) • OITDA (Optoelectronics Industry and Technology Development Association) • OPSS (Optics and Photonics Society of Singapore) • OSA (The Optical Society) • OSK (Optical Society of Korea) • PIDA (Photonics Industry & Technology Development Association) • ROS (Rozhdestvensky Optical Society) • SPIE (The International Society for Optics and Photonics) • SPIJ (The Society of Photography and Imaging of Japan) • **The Color Science Association of Japan** • **The Astronomical Society of Japan** • **The Spectroscopical Society of Japan** • SID Japan Chapter (Society for Information Display Japan Chapter) • TOOMA (Taiwan Optics/Optronics Manufacturers' Association) • TPS (The Physical Society of Taiwan)

Paper Submission Period:

Oct. 1st, 2021 - Mar. 4th, 2022 (Extended)

<http://www.odf.jp/>

INTRODUCTION

The 13th International Conference on Optics-photonics Design & Fabrication “ODF'22, Sapporo” will be held on August 3rd-5th, 2022. Optics-photonics design and fabrication will continue to play a significantly important role in the 21st century achieving harmony between technology and the environment. ODF'22 is intended to provide an international forum for original paper presentations and discussions of optics-photonics design and fabrication-related technological and scientific topics. These topics include theory, design, fabrication, testing, applications, and others.

ODF'22 is aimed to promote international collaboration among the participants in this field including related companies' exhibition.

Collaboration and Competition make progress.

“Join us at *ODF'22, Sapporo, Japan!*”

SCOPE OF THE CONFERENCE

ODF'22 is an international forum for the engineers and scientists in the field of Optics-photonics Design and Fabrication to exchange their ideas and achievements with the goal of future mutual progress. The conference covers the following major topical categories:

CATEGORIES AND PRELIMINARY LIST OF INVITED SPEAKERS

Plenary

M. Shibuya (Tokyo Polytechnic Univ. / Japan)

"Lens Optics Brilliant Forever"

D. Brady (The Univ. of Arizona / USA)

"Lens Design for Parallel Super Cameras"

Special Session: “Optics for Life Sciences”

R. Y. Tsai (Caduceus Biotechnology Inc. / Taiwan)

"Versatile Applications of Laser Scanning Based on the Optical Pickup Head Technology"

N. Kondo (Kyoto Univ. / Japan)

"Optical Sensing Technologies for Sustainable Food Production"

K. Katoh (AIST / Japan)

"Observation of Fine Structures of the Cell with Optical Microscopes"

A. Ozcan (UCLA / USA)

"Deep Learning-enabled Computational Microscopy and Sensing"

G. C. Cardoso (Univ. of Sao Paulo / Brazil)

"Low-Cost optical Sensing Applied to Life Sciences"

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Category 1. Optical Design / Simulation / Fabrication

S. Ono (Fujifilm Corp. / Japan)

"Snapshot Multispectral Imaging Using a Pixel-Wise Polarization Color Image Sensor"

G. Druart (ONERA / France)

"Review of The Development of Infrared Cameras for Automotive Applications in the Framework of the European Project Heliaus"

O. Föhnle (OST Univ. of Applied Sciences / Switzerland)

"Modeling of Optical Fabrication Chains During Optics Design"

Y. C. Fang (N. Kaohsiung Univ. of Science and Technology, NSPO / Taiwan)

"Satellite and Space: NSPO, Taiwan"

R. Youngworth (RiYo LLC. / USA), D. Aikens (Savvy Optics Corp. / USA), and E. Herman (Zygo Corp. / USA)

"Advances and Insights into Fundamental Optics Standards"

Category 2. Optical Components / Devices

H. H. Cheng (Meta (Face Book) Reality Labs / USA)

"LC Polarization Diffractive Optical Element for AR/VR/MR Application"

M. Kurita (Kyoto Univ. / Japan)

"New Profilometer and Data Stitching Algorithm for Large Mirror Measurement"

O. Guyon (The Univ. of Arizona / USA)

"The Search for Habitable Worlds around Nearby Stars with Large Telescopes and Innovative Photonics"

Category 3. Optical Systems

B. Kress (Google LLC / USA)

"Hardware Challenges for Implementing Metaverse-Compatible Use Cases on Smart Glass AR Form Factors"

M. -H. Choi (Inha Univ. / Korea)

"Optical see-through augmented reality near-eye-display with focus cue support"

A. Rueda (Scantinel Photonics GmbH / Germany)

"Long Range Automotive FMCW LiDAR with Solid State Scanning"

M. Yamanaka (Osaka Univ. / Japan)

"Deep Tissue High-Resolution Optical Imaging in the Third Near Infrared Window"

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Category 4. New Technologies

V. Anand (Univ. of Tartu / Estonia)

"Extraordinary Computational Imaging Technologies with Ordinary Optical Modulators"

L. Cao (Tsinghua Univ. / China)

"Ray Fields Reconstruction Based on the Computational Photometric Measurement"

K. Iwami (Tokyo Univ. of Agriculture and Technology / Japan)

"Dielectric Metasurfaces for Holography and Focusing at Visible Wavelengths"

The list of invited speakers will be updated in the ODF'22 website.

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PREPARATION OF ABSTRACT AND MANUSCRIPTS

A limited number of original contributed papers covering unpublished work will be accepted for presentation. Authors are required to submit papers including 35-word abstracts and 2-page manuscripts in the prescribed form. The form can be downloaded from the conference website. Papers must be submitted online. Please see the ODF'22 website for details of the submission procedure. Authors are required to agree to copyright transfer by including a completed form when submitting papers.

- **35-word Abstract**

Abstract should be up to 35 words in text format. Please avoid the use of scientific and engineering symbols in the abstract. The abstract which is longer than 35 words will be shortened by the program committee. If the paper is accepted, the abstract will appear in the Advance Program.

- **2-page Manuscripts**

2-page camera-ready manuscripts including text, figures, tables, and references must be typed single-spaced on an A4 or letter size paper, with the title followed by the author's name, affiliation, and address. Accepted papers will be published in the Technical Digest of the conference. For the layout of manuscript, please see the Guidelines appear on the ODF'22 website.

- **Abstracts & Manuscripts will be accepted: October 1st, 2021-February 11th, 2022**

For inquiries, please contact: secretariat@cleopr2022.org

ADDITIONAL INFORMATION

- **Post-deadline Papers**

Detailed information will be announced in the Advance Program.

- **ODF'22 Special Issue of OPTICAL REVIEW**

The presented papers can be resubmitted and published in the ODF'22 special issue of the OPTICAL REVIEW after peer review. It is the English-language journal of the Optical Society of Japan (OSJ). Application forms for the special issue will be presented on the website.

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REGISTRATION

- **Registration Fee**

The registration fee includes admission to technical sessions, online Technical Digest and Welcome reception.

Type	Before / on Jun. 30th, 2022 (JST)	After Jun. 30th, 2022 (JST)
Member*	JPY 60,000	JPY 70,000
Non-Member	JPY 70,000	JPY 80,000
Student	JPY 25,000	JPY 30,000

[*] Member of sponsor and cooperative society
(OSJ, IEEE, IEICE-CS, IEICE-ES, JSAP, LSJ, OPTICA)
JPY: Japanese Yen

- **Registration**

Participants in ODF'22 are required to register in the registration page. The deadline for advanced registration is June 30th, 2022.

Online registration: <https://www.cleopr2022.org/registration.html>

- **Cancellation Policy**

There will be no refunds for the registration fee.

CONFERENCE SITE

ODF'22, Sapporo, will be held at Sapporo Convention Center, Sapporo.

Access: <https://www.sora-scc.jp/eng/>

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