



Optical Design and Engineering IX (OSD01)

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Efficient and successful optical design requires a multidisciplinary approach. The optical designer needs to have material and production expertise, knowledge of the application and potential market: the design software is the main tool for the designer. Advanced optical systems require a clear understanding of the physical limits, material science, and technical possibilities. Only then will the result be a competitive product optimised for best value for money. In many cases, the success of a product in the international marketplace depends on its optical design. The design software is the main tool for the designer. This tool has to keep pace with the research and development activities in the field of optical elements, illumination, detectors, and other new technologies.

Contributions on the topics of design-to-cost, design-for-manufacture, including productions in series as example for space constellations or military programs, and design-for-industrial innovation are welcome at this conference. These topics are critical to ensuring that optical designs more effectively accommodate production constraints and new process developments in an increasingly competitive environment. This conference is intended to address an international audience of optical system designers, software development engineers, and R&D experts from industry, institutions, and academia. Original papers are solicited on, but not limited to, the following areas of research, design, and engineering of optical systems:

- modelling, simulation, and new algorithms
- optomechanical design
- tolerancing and design-for-manufacture
- stray light analysis and prevention
- optical instrumentation
- active and adaptive optics/x-ray optics
- integrated, micro-, diffractive and guided optics
- detectors, their interface to optics, and associated signal processing
- advanced optical materials
- high-power designs using nonlinear elements
- freeform optics
- education in lens design
- artificial intelligence in lens design optimization
- quo vadis optical design software: price, content, open source?
- co-design and computational imaging
- optical system design with meta-components
- gradient index components - new developments and state of the art as alternatives in lens design
- components with new manufacturing technologies like 3D printing.

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Present your research at SPIE Optical Systems Design

Below are abstract submission instructions, the accompanying submission agreement, conference presentation guidelines, and guidelines for publishing in the Proceedings of SPIE on the SPIE Digital Library. Submissions subject to chair approval.

Important dates

Abstracts due	6 December 2023
Authors notified and programme posts online	25 January 2024
Registration opens	8 January 2024
Submission system opens for manuscripts and poster videos/PDFs*	5 February 2024
Manuscripts due	20 March 2024

*Contact author or speaker must register prior to uploading

What you will need to submit

- Presentation title
- Author(s) information
- Speaker biography (1000-character max including spaces)
- Abstract for technical review (200-300 words; text only)
- Summary of abstract for display in the programme (50-150 words; text only)
- Keywords used in search for your paper (optional)
- Check the individual conference call for papers for additional requirements (i.e. extended abstract PDF upload for review or instructions for award competitions)

Note: Only original material should be submitted. Commercial papers, papers with no new research/development content, and papers with proprietary restrictions will not be accepted for presentation.

How to submit your abstract

- Visit the conference page: www.spie.org/osd01call
- You may submit more than one abstract, but submit each abstract only once
- Submit by clicking the "Submit an Abstract" button on the conference page
- Sign in to your SPIE account, or create an account if you do not already have one
- Follow the steps in the submission wizard until the submission process is completed
- If your submission is related to an application track below, indicate the appropriate track when prompted during the submission process

Submission agreement

All presenting authors, including keynote, invited, oral, and poster presenters, agree to the following conditions by submitting an abstract:

- Register and pay the author registration fee
- Oral presenters: recording and publication of your onsite presentation (slides synched with voice) for publication in the Proceedings of SPIE in the SPIE Digital Library
- Poster presenters: submit a poster PDF by the advertised due dates, for publication in the Proceedings of SPIE in the SPIE Digital Library; poster PDFs may also be published and viewable in the spie.org programme during and immediately after the event
- Email messaging for the conference series
- Submit a manuscript by the advertised due date for publication in the Proceedings of SPIE in the SPIE Digital Library
- Obtain funding for registration fees, travel, and accommodations
- Attend the meeting
- Present at the scheduled time

Review and programme placement

- To ensure a high-quality conference, all submissions will be assessed by the conference chair/editor for technical merit and suitability of content
- Conference chairs/editors reserve the right to reject for presentation any paper that does not meet content or presentation expectations
- Final placement in an oral or poster session is subject to chair discretion

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