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, in addition to considerable ability in their main task; the design of an optical system with optimum performance. 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
- super resolution systems
- space optics
- x-ray optics
- active and adaptive optics
- integrated and guided optics
- micro-optics
- optics for visual instruments
- detectors, their interface to optics, and associated signal processing
- advanced optical materials
- diffractive and holographic optics
- high-power designs using nonlinear elements
- environmental effects and their compensation
- projection and display systems
- microscopy
- lithography and associated optical systems
- computational imaging
- freeform optics.
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Present your research at SPIE Optical Systems Design

Follow these instructions to develop a successful abstract and accompanying manuscript for the conference and for publication in the Proceedings of SPIE in the SPIE Digital Library.

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• Go to the conferences page (link below), browse the conference topics and choose one that most closely matches the topics of the work you wish to present. Click “Submit an Abstract” from within that conference, and you’ll be prompted to sign in to your spie.org account to complete the submission wizard.
• Browse the conference programme and select conference(s) that most closely matches the topics for your area of research. Important: each abstract may be submitted to one conference only.

What you will need to submit

A completed electronic submission should include the following:
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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.

Submission agreement

Presenting authors, including keynote, invited, oral, and poster presenters, agree to the following conditions by submitting an abstract. An author or coauthor will:
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• Ensure that you obtain a visa in time, if you need to do so. Visa Application Information and Invitation Requests.

Important dates

| Abstracts Submission Deadline | 28 April 2021 |
| Acceptance Notification Sent to Contact Author | 18 June 2021 |
| Manuscripts Due | 18 August 2021 |

Review and programme placement

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