Optical Coherence Tomography and Coherence Domain Optical Methods in Biomedicine XXVIII (BO300)

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Papers are solicited on the following and related topics:

- optical coherence tomography (OCT) systems, theory, image processing techniques in OCT
- spectral/Fourier domain and swept source OCT
- optical coherence microscopy (OCM) full-field OCT
- molecular, spectroscopic and functional OCT
- Doppler and polarization-sensitive OCT
- OCT angiography
- phase-contrast techniques
- novel light sources for OCT
- imaging devices and probes for OCT
- low-coherence interferometry and topography
- white-light interferometry
- novel contrast mechanisms
- clinical applications of OCT
- ophthalmic applications
- cardiovascular and intravascular applications
- cancer imaging
- endoscopic imaging
- small animal imaging
- developmental biology.

SPECIAL ABSTRACT REQUIREMENTS: PEER REVIEW

Submissions to this conference are due no later than 3 August 2023 (after the main BIOS due date) and must include the following:

- 100-word text abstract (for online program)
- 250-word text abstract (for technical review)
- 2-page extended abstract (for committee review only). The extended abstract must be submitted as a separate document limited to two pages, including tables and figures. Include author names and affiliations; text; any figures, tables, or images; and sufficient data to permit peer review.

Optical coherence tomography and other optical methods and instruments based on coherent light interactions with tissues and detection methods are promising for noninvasive medical diagnostics and monitoring a wide spectrum of pathologies as well as fundamental biomedical research. The focus of this conference will be on the physical and mathematical basis of coherence domain methods, new instrumentation and techniques and their applications in biomedical science and clinical practice. Directions of research and development in areas such as optical coherence tomography (OCT), low-coherence interferometry, speckle and speckle interferometry measurement and imaging technologies, polarized light diagnostic methods, coherent light microscopy, and coherence technologies for flow and functional imaging will be considered. Applications of coherence domain optical methods for biological studies and clinical applications will also be discussed.
Present your research at SPIE Photonics West

Follow the instructions below to develop a successful abstract for submission to a conference and review policies for publication in the Proceedings of SPIE in the SPIE Digital Library. Submissions subject to chair approval.

Important dates

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<th>Date</th>
<th>Event</th>
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<tr>
<td>19 July 2023</td>
<td>Abstracts due</td>
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<tr>
<td>October 2023</td>
<td>Registration opens</td>
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<td>9 October 2023</td>
<td>Authors notified and program posts online</td>
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<tr>
<td>27 November 2023</td>
<td>Submission system opens for manuscripts and poster PDFs*</td>
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<td>3 January 2024</td>
<td>Poster PDFs due for spie.org preview and publication</td>
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<td>10 January 2024</td>
<td>Manuscripts due</td>
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<td>25 January 2024</td>
<td>Advance upload deadline for oral presentation slides**</td>
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*Contact author or speaker must register prior to uploading
**After this date slides must be uploaded onsite at Speaker Check-in

What you will need to submit

- Presentation title
- Author(s) information
- Speaker biography
- 250-word abstract for technical review
- 100-word summary of abstract for display in the program
- Keywords used in search for your paper (optional)
- Check the individual conference call for papers for additional requirements (for example, some conferences require 2- to 3-page extended summary for technical review, or have 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/BO300call
- 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

Application track

Listed below are the application tracks available for this meeting. Application tracks aggregate presentations and focus on emerging technical and societal needs that require a multidisciplinary approach.

- **AI/ML:** Papers that highlight the use of artificial intelligence, machine learning, and deep learning to create and implement intelligent systems across multiple sectors, technologies, and applications
- **Sustainability:** Papers that highlight the use of optics and photonics for renewable energy, natural resource management, sustainable manufacturing, and greenhouse gas mitigation in support of the UN Sustainable Development Goals
- **Brain function:** Papers that highlight the development of innovative optics and photonics technologies that increase our understanding of brain physiology and function
- **Translational research:** Papers that highlight the transition from bench to bedside using the latest photonics technologies, tools, and techniques for healthcare
- **3D printing:** Papers that highlight the innovative use of optics and photonics in multidisciplinary applications for multidimensional manufacturing

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 program during and immediately after the event. Each poster must have a unique presenter; one person may not present more than one poster per session
- 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 program 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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- More publication information available on the SPIE Digital Library

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For questions about publication or the SPIE Digital Library, contact your proceedings coordinator.

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