Ultrasonic Imaging and Tomography (MI108)

Conference Chairs: Nick Bottenus, Univ. of Colorado Boulder (United States); Nicole V. Ruiter, Karlsruher Institut für Technologie (Germany)

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This conference provides a forum for in-depth discussions related to medical ultrasound engineering, imaging and clinical applications. We are soliciting original contributions related to the following topics: physics of ultrasound wave propagation, image reconstruction techniques, hardware and system design, novel transducer technologies, ultrasound image analysis strategies, ultrasound functional imaging, contrast agents and biological and biomedical applications of new ultrasound imaging modalities.

TOPIC AREAS: FOR THIS CONFERENCE ONLY

During the submission process, you will be asked to choose no more than three topics from the following list to assist in the review process.

- Physics and computer simulations
- Transducer technologies
- Ultrasound hardware development and evaluation
- Beamforming techniques
- Ultrasound tomography and reconstruction
- Tissue characterization
- Elastography
- Motion and deformation imaging
- Blood flow imaging
- Contrast imaging
- US assisted drug delivery
- Ultrafast imaging
- Shear-wave imaging
- High frequency imaging
- Ultrasound image processing and analysis
- Photoacoustic imaging
- Acoustic microscopy
- Ultrasound therapeutics
- High intensity focused ultrasound methods and applications
- Ultrasound procedure guidance
- Clinical applications of ultrasound and US tomography
- New applications of ultrasound in medicine and biology

Submit abstracts by 18 August 2021

www.spie.org/MI108call
Present your research at SPIE Medical Imaging

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

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract submission deadline</td>
<td>18 August 2021</td>
</tr>
<tr>
<td>Author notification</td>
<td>15 October 2021</td>
</tr>
<tr>
<td>Submission system opens for presentations and manuscripts*</td>
<td>13 December 2021</td>
</tr>
<tr>
<td>Manuscript due date</td>
<td>26 January 2022</td>
</tr>
<tr>
<td>Oral presentation videos due</td>
<td>26 January 2022</td>
</tr>
<tr>
<td>Poster PDF and preview videos due</td>
<td>26 January 2022</td>
</tr>
<tr>
<td>Oral presentation slide deadline</td>
<td>18 February 2022</td>
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</tbody>
</table>

*Authors must register prior to uploading.

What you will need to submit

- Title
- Author(s) information
- 250-word abstract for technical review
- 100-word summary for the program
- Keywords used in search for your paper (optional)
- Two- to four-page supplemental file, prepared as a PDF that includes:
  - Paper title
  - Authors
  - Following supplemental information:
    - Description of purpose
    - Method(s)
    - Results
    - New or breakthrough work to be presented
    - Conclusions
    - Whether the work is being, or has been, submitted for publication or presentation elsewhere, and, if so, indicate how the submissions differ
    - This file may contain supporting images/tables/figures

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/MI108call
- You may submit more than one abstract but submit each abstract only once.
- Click 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.

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: Submit a presentation video by the advertised due date, or agree to the presentation capture of your presentation on site, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Poster presenters: Submit a Poster PDF and optional preview video by the advertised due date, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Submit a four-page minimum manuscript by the advertised due date, for online conference viewing during the event and publication in the Proceedings of SPIE on the SPIE Digital Library.
- Obtain funding for registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations.
- Ensure that all clearances, including government and company clearance, have been obtained to present and publish. If you are a DoD contractor in the USA, allow at least 60 days for clearance.
- 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’s discretion.

Publication of Proceedings in the SPIE Digital Library

- SPIE will publish all presentations for viewing during the conference, as well as permanently archive all presentations in the conference proceedings on the SPIE Digital Library.
- SPIE retains rights to distribute and market the official SPIE recording of the presentation, presentation video, and/or poster.
- Most SPIE conferences follow an onsite publication model, meaning that manuscripts received by the advertised due date will be published for online viewing during the event, as well as archived in the SPIE Digital Library.
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