



Computer-Aided Diagnosis (MI103)

Conference Chairs: **Thomas Martin Deserno**, Peter L. Reichertz Institut für Medizinische Informatik (Germany); **Kenji Suzuki**, Institute of Science Tokyo (Japan)

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REQUIRED AT STEP 6 OF SUBMISSION

Upload a **2-4 page PDF** (not counting acknowledgements and references)

Formatting requirements

- Follow SPIE manuscript margin specifications
- **Letter size:** .88 in (left/right), 1.0 in (top), 1.25 in (bottom)
- **A4 size:** 1.93 cm (left/right), 2.54 cm (top), 4.94 cm (bottom)

For complete preparation and submission instructions, refer to the Abstract Submission Guidelines.

This conference provides a forum for researchers involved in the development and application of computer-aided diagnosis (CAD) systems in medical imaging. We accept original papers on conventional and deep-learning approaches. The CAD conference solicits papers on artificial intelligence (AI) in medical imaging, including topics that extend beyond detection and diagnostics: novel methods, applications, learning paradigms, -omics integration, and performance evaluation. Please see the more detailed list of topics below. We encourage applications in all imaging modalities as well as multi-modality technologies.

JOINT SESSION ON CLINICAL AI

For a joint session with the conference on image perception, we also call for papers on complementarity studies between CAD-AI and humans, such as retrospective and prospective studies comparing CAD-AI output to original clinical decisions, reader studies, and studies of CAD-AI in clinical practice, including novel methods for CAD-AI monitoring, CAD-AI solutions for limited-resource environments, and CAD-AI applications in underrepresented populations. To be considered for this joint session, select “clinical AI” in the topic selection step of the abstract submission process (it is the second-listed methodology topic).

TOPIC AREAS FOR THIS CONFERENCE

During submission, you will be asked to choose relevant topics to assist in the review process. Please choose up to two methodology topics from this list:

- AI (deep & machine learning, language models, generative, multi-modal)
- clinical AI
- quality assurance of AI
- classification
- comparison, fusion
- image synthesis
- content-based image retrieval, reference libraries
- data harmonization
- longitudinal imaging over time
- decision support, imaging biomarkers
- fusion of imaging and non-imaging information
- performance evaluation
- precision medicine
- physics- and biology-inspired techniques
- prognosis, outcome prediction
- radiomics, radiogenomics, multi-omics
- theranostics
- risk assessment
- staging, treatment response monitoring
- triage, clinical workflow.

Please also choose up to two body regions:

- abdomen
- breast, skin
- cardiovascular
- eye, head, neck
- lung
- musculoskeletal
- multiple organ systems
- neurology
- pediatrics, fetal
- other (please specify).

CONFERENCE AWARDS**COMPUTER-AIDED DIAGNOSIS BEST PAPER AWARD**

We are pleased to announce awards for the best paper and runner-up in this conference. Qualifying applications will be evaluated by the awards committee. Manuscripts will be judged based on scientific merit, impact, and clarity. The winners will be announced during the conference and the presenting author will be awarded a certificate and cash prize.

To be eligible for the best student paper award, you must:

- be a student without a doctoral degree (undergraduate, graduate, or PhD student)
- submit your abstract online, and select “Yes” when asked if you are a full-time student, and select yourself as the speaker
- be listed as the speaker on an accepted paper within this conference
- have conducted the majority of the work to be presented
- [submit an application](#) for this award with preliminary version of your manuscript for judging by **27 November 2026**
- submit the final version of your manuscript through your [SPIE.org account](#) by **27 January 2026**
- present your paper as scheduled.

Nominations

All submitted papers will be eligible for the award if they meet the above criteria.

COMPUTER-AIDED DIAGNOSIS POSTER AWARD

The Computer-Aided Diagnosis conference will select a Cum Laude and Honorable Mention poster award from the accepted posters in the program. The committee will run the judging process and make the selection before the poster session and a ribbon will be hung on the select posters during the session and awarded a certificate. To qualify, accepted poster presenters must submit a PDF of their poster through their account at <https://spie.org/myaccount> by the poster deadline of 20 January 2027.

SYMPOSIUM AWARDS**ROBERT F. WAGNER ALL-CONFERENCE BEST STUDENT PAPER AWARD**

The Robert F. Wagner All Conference Best Student Paper Award is open to all student presentations at SPIE Medical Imaging. Review award description and requirements on the [SPIE Medical Imaging Awards page](#).

MEDICAL IMAGING LIVE DEMONSTRATIONS AWARD

The Live Demonstrations Workshop at SPIE Medical Imaging features interactive demonstrations for systems and algorithms developers to show off their creations, complementary to the topics of SPIE Medical Imaging. View event description and requirements on the [SPIE Medical Imaging Awards page](#).

Present your research

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

| | |
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| Abstracts due | 5 August 2026 |
| Registration opens | October 2026 |
| Authors notified and program posts online | 26 October 2026 |
| Applications open for RFW and conference awards | 26 October 2026 |
| Applications close for RFW and conference awards | 27 November 2026 |
| Submission system opens for manuscripts and poster PDFs* | 14 December 2026 |
| Poster PDFs due for spie.org preview and publication | 20 January 2027 |
| Manuscripts due | 27 January 2027 |
| Advance upload deadline for oral presentation slides** | 12 February 2027 |

*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 (1000-character max including spaces)
- Abstract for technical review (200-300 words; text only)
- Summary of abstract for display in the program (50-150 words; text only)
- Keywords used in search for your paper (optional)
- Supplemental File (Required): Upload a **2-4 page PDF** (not counting acknowledgements and references), formatted to SPIE Manuscript margin specifications (**LETTER-SIZE:** .88 in left/right, 1.0 in top, 1.25 in bottom; **A4-SIZE:** 1.93 cm left/right, 2.54 cm top, 4.94 cm bottom), that includes:
 - Presentation/paper title and Authors
 - Purpose, methods, results, and conclusions
 - Supporting figures or tables
 - Any novel or breakthrough aspects
 - Disclosure of prior or concurrent submissions

Policy: Submissions must present original work. Commercial content, work without new research, or restricted/proprietary material will not be accepted.

How to submit your abstract

- Visit the conference page: www.spie.org/mi103
- 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 tracks

An application track is a grouping of presentations on a topic of interest across all conferences. During submission of the abstract, the submitting author should select an application track if it is relevant to their research. Learn more.

Contact information

- **AI/ML:** Papers that showcase 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

Submission agreement

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

- Register and pay the conference registration fee
- Agree to receive email messaging for the conference series
- Oral presenters: agree to recording and publication of your onsite presentation (slides synched with voice) in the Proceedings of SPIE in the SPIE Digital Library
- Poster presenters: one person may not present more than two posters in a poster session; submit a poster PDF for preview in the online program (web and app) and for publication in the Proceedings of SPIE in the SPIE Digital Library
- 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

Student author attendees under 18 years of age

In addition to the submission agreement above, the following requirements apply to student presenters and coauthors who will be under 18 years of age on the first day of the event they are attending:

- Students under 18 years of age must be actively affiliated with a recognized academic institution
- Students must have their abstract proposal approved by a faculty advisor or mentor before submission; this advisor or mentor must also be listed as a co-author on both the abstract and the final manuscript submitted for publication in the Proceedings of SPIE

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and Amsterdam
Univ. Medical Center,
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(Netherlands)



Aaron Fenster
Robarts Research
Institute, Western Univ.
(Canada)

- If a submission is accepted for presentation, the student’s parent or guardian must complete and submit the Parental/Guardian Consent Form by 8 weeks before the event start date
- All student authors under age 18 must be accompanied to the event by a faculty advisor, parent, or guardian

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 and/or SPIE staff 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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Increase your professional visibility and publish in the world’s largest collection of optics and photonics research. Your peers access approximately 18 million papers, presentations, and posters from the SPIE Digital Library each year.

- Only manuscripts, presentations, and posters presented at the conference and received according to publication guidelines and due dates will be published in the Proceedings of SPIE in the SPIE Digital Library
- Manuscripts, presentations, and posters will be officially published after the event in the SPIE Digital Library
- Conference chairs/editors or SPIE staff may require revision before approving publication and reserve the right to reject for publication any manuscript or presentation that does not meet acceptable standards for a scientific publication
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- More publication information available on the SPIE Digital Library

QUESTIONS?

Contact the coordinator listed in your spie.org account.
For questions about your presentation, submitting an abstract or the meeting, contact your conference program coordinator.
For questions about publication or the SPIE Digital Library, contact your proceedings coordinator.