



25-28 May 2027
SwissTech Convention Center,
Lausanne Switzerland

CALL FOR PAPERS

IMPORTANT DATES

SPECIAL SESSION PROPOSALS

- ♦ **Submission**
Monday 21 September 2026
- ♦ **Notification**
Monday 5 October 2026

4 PAGE PAPERS

- ♦ **Submission**
Monday 26 October 2026
- ♦ **Notification**
Tuesday 12 January 2027
- ♦ **Final Submission**
Tuesday 26 January 2027

1 PAGE ABSTRACTS - NOT PUBLISHED

- ♦ **Submission**
Monday 1 February 2027
- ♦ **Notification**
Monday 15 February 2027

CHALLENGES

- ♦ **Proposal Submission**
Monday 21 September 2026
- ♦ **Proposal Notifications**
Monday 16 November 2026
- ♦ **Paper Submission**
Friday 26 February 2027
- ♦ **Paper Notification**
Monday 1 March 2027
- ♦ **Final Submission**
Monday 15 March 2027

TUTORIAL PROPOSALS

- ♦ **Submission**
Monday 21 September 2026
- ♦ **Notification**
Thursday 15 October 2026

WORKSHOP

- ♦ **Proposal Submission**
Monday 21 September 2026
- ♦ **Proposal Notification**
Thursday 15 October 2026
- ♦ **Paper Submission Deadline**
Tuesday 26 January 2027

DEMO PROPOSALS

- ♦ **Submission**
Monday 21 September 2026
- ♦ **Notification**
Thursday 15 October 2026

The IEEE International Symposium on Biomedical Imaging (ISBI) is a premier scientific conference dedicated to the mathematical, algorithmic, and computational aspects of biological and medical imaging across all scales. It fosters knowledge transfer across imaging communities and promotes an integrative approach to image-driven discovery in biology and medicine. ISBI is a joint initiative of the IEEE Signal Processing Society (SPS) and the IEEE Engineering in Medicine and Biology Society (EMBS).

2027 marks 25 years from the first edition of ISBI, and we are proud to celebrate this milestone at the EPFL – Swiss Federal Technology Institute of Lausanne, Switzerland – home to a world-class ecosystem in biomedical research and technology. Join us for an edition that brings together leading computational and life science researchers, as well as clinicians, to shape the next chapter of biomedical imaging.

ISBI 2027 will include tutorials, challenges, demonstrations, workshops and a scientific program comprising plenary talks, special sessions, and oral and poster presentations of peer-reviewed papers. All submissions must be original submissions not under concurrent review at any other conference or journal. Accepted 4-page regular papers will be published in the symposium proceedings by IEEE Xplore®.

To encourage attendance by a broader audience of imaging scientists as well as life science and clinical professionals, ISBI 2027 will continue to have a second track featuring posters selected from 1-page abstract submissions without subsequent archival publication.

TOPICS OF INTEREST INCLUDE:

- » Image formation, acquisition, and reconstruction
- » Physical, biological, and statistical modelling
- » Computational and statistical image processing and analysis
- » Image segmentation and registration
- » Image quality assessment and harmonization
- » Foundation models and self-supervised learning for biomedical imaging
- » Generative models and synthetic data in biomedical imaging
- » Dynamic, multimodal, multiplexed, and multiscale imaging
- » Computer-aided detection, diagnosis, treatment planning, and outcome prediction
- » Uncertainty quantification and trustworthy AI in imaging
- » Imaging genomics, radiomics, and multimodal biomarker integration
- » Bioimage informatics and federated learning
- » Visualization, atlasing, and spatial biology
- » Biological and medical applications

