



The 27th international conference on Information Processing in Medical Imaging (IPMI 2021)

Bornholm, Denmark - June 27th-July 2nd, 2021
<https://www.ipmi2021.org>

Call for Papers!

The 27th biennial international conference on Information Processing in Medical Imaging (IPMI 2021) will be held at the island of Bornholm, Denmark from June 27th to July 2nd, 2021. The conference is the latest in a series where novel developments in the acquisition, formation, analysis and display of medical images are presented, discussed, dissected, and extended. Over the last five decades, 26 successful conference editions and the strong community behind it have evolved IPMI to one of the premier conferences in medical image analysis. IPMI places the highest importance on high-quality submissions coupled with presentations and thorough discussions of the presented contributions. IPMI 2021 will continue the scientific focus and traditions established over the last 50 years.

Please see further information at <http://www.ipmi2021.org> and [@ipmi2021](https://twitter.com/ipmi2021).
IPMI 2021 is a MICCAI endorsed event.

Cutting edge research in the medical imaging field

IPMI's mission is to facilitate and showcase the latest methodological developments within medical imaging. An "IPMI paper" presents novel methodological developments that solve medical imaging analysis problems. Today, IPMI is widely recognised as a preeminent international forum for presentation of cutting edge research in the medical imaging field including the following topics:

- Image registration
- Image segmentation
- Image acquisition and reconstruction
- Image fusion and synthesis
- Novel deep learning methods for medical imaging
- Statistics for medical imaging
- Computer-aided detection and diagnosis
- Computational anatomy and physiology
- Visualization and physicalization
- Multimodal image processing and analysis
- Functional and molecular imaging
- Imaging and genomics
- Image guided surgery
- Uncertainty estimation

- Interpretability and explainable algorithms
- Loss functions for medical imaging
- Transfer learning, domain adaptation, data harmonization
- Generative modelling
- Learning with noisy or limited data
- Statistical and mathematical models
- Geometric learning, geometric deep learning, geometric statistics
- Shape modeling and analysis

Objective

We plan a strong agenda of scientific presentations that will secure the attendance of outstanding researchers from throughout the world in a pleasant and informal setting conducive to in-depth scientific exchange and lively debate.

Our objective in organizing IPMI 2021 is to continue to nurture and encourage contributions from students and junior faculty with the hope that exchanges between the newer and the more established members of the research community will strengthen the scientific program and the field of biomedical image analysis in general.

Proceedings will be published as a volume in the Springer Lecture Notes Computer Science (LNCS) series. Selected papers will be invited to publish extended versions in a special issue in the new free online journal Machine Learning for Biomedical Imaging (MELBA) - <http://melba-journal.org>.

Dates

Paper registration: 29 November 2020
 Submission of full papers: 6 December 2020
 Reviews due date: 24 January 2021
 Notification of acceptance: Feb. 2021 (To be announced)
 Camera copy ready: March 2021 (To be announced)
 Conference: 27 June – 2 July 2021



Chairs

Stefan Sommer - University of Copenhagen
 Aasa Feragen - Technical University of Denmark
 Julia Schnabel - King's College London
 Mads Nielsen - University of Copenhagen



Contingency plan: We sincerely hope that the COVID-19 pandemic will be under control well before IPMI 2021 takes place next summer. However, should unforeseen circumstances prevent the conference from happening physically as planned, we will plan for a virtual conference similarly to the many conferences this year that are now virtual due to the virus outbreak. Importantly, this implies that proceedings with accepted papers will still be published in such a circumstance. We will continue to monitor the situation as the conference comes closer. Any updates will be published on the conference website.