



# IEEE - ISBI 2023

## International Symposium on Biomedical Imaging

Cartagena de Indias • Colombia

April 18-21 2023



IEEE



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ASOCIACION COLOMBIANA DE RADIOLOGIA

#ISBI2023

### CALL FOR PAPERS

[biomedicalimaging.org/2023](http://biomedicalimaging.org/2023)

The IEEE International Symposium on Biomedical Imaging (ISBI) is a scientific conference dedicated to the mathematical, algorithmic, and computational aspects of biological and biomedical imaging, across all scales of observation.

It fosters knowledge transfer among different imaging communities and contributes to an integrative approach to biomedical imaging. ISBI is a joint initiative of the IEEE Signal Processing Society (SPS) and the IEEE Engineering in Medicine and Biology Society (EMBS).

The 2023 meeting will take place in Cartagena, Colombia and will include tutorials, challenges, 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 and clinical professionals, ISBI 2023 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 and reconstruction
- physical, biological, and statistical modelling
- computational and statistical image processing and analysis,
- image segmentation
- image quality assessment
- machine learning for image analysis
- dynamic/ multimodal/ multiplexed/ multiscale imaging
- Computer-aided diagnosis
- Integration of imaging and non-imaging biomarkers
- Imaging informatics
- Visualization in biomedical imaging, and biomedical applications.

### Important dates

#### Special sessions

Submission deadline: 13 Oct 2022  
Notification: 03 Nov 2022

#### Tutorials

Submission deadline: 13 Oct 2022  
Notification: 03 Nov 2022

#### Challenges

Submission deadline: 13 Oct 2022  
Notification: 03 Nov 2022

#### 4-page papers

Submission deadline: 27 Oct 2022  
Notification: 19 Jan 2023  
Camera ready: 23 Feb 2023

#### 1-page abstracts

Submission deadline: 26 Jan 2023  
Notification: 09 Feb 2023

#### Pitch competition

Submission deadline: 26 Jan 2023  
Notification: 09 Feb 2023

### Organizing Committee

#### General Chairs

Natasha Lepore, U Southern California, USA  
Oscar Acosta, U Rennes 1-INSERM, France

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#### Special Advisor

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#### Virtual Chair

John Baxter, U Rennes 1-INSERM, France

#### Plenary Chairs

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Maxime Descoteaux, U Sherbrooke, Canada

#### Special Sessions Chairs

Olivier Coulon, U Aix-Marseille, France  
Yalin Wang, Arizona State U, USA

#### Challenges Chairs

Paul Yushkevich, U Pennsylvania, USA  
Maria Zululaga, EURECOM, France

#### Tutorials Chairs

Jong Chul Ye, KAIST, Korea  
Jorge Brieve, U Panamericana, Mexico

#### Clinical Events Chairs

Benoit Macq, U Catholique Louvain, Belgium  
Norberto Malpica, U Rey Juan Carlos, Spain  
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#### Industrial Events Chairs

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#### Awards Chairs

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#### Postdoc & Student Activities Chairs

Marco Lorenzi, INRIA Sophia Antipolis, France  
Eugenia Myloni, U Ioannina, Greece  
Claudia Mazo, U College Dublin, Ireland  
Isabella Cama, U Genoa, Italy

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Niharika Gajawelli, Children's Hospital LA, USA  
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Hevia Nidiyare, U Nacional Autónoma, Mexico  
Fabian Narvaez, U Salesiana, Ecuador  
Celia Cintas, IBM Africa, Kenya  
Pamela Guevara, U Concepcion, Chile

#### World Liaisons

Leo Joskowicz, Hebrew U Jerusalem, Israel  
Kostas Marias, Hellenic Mediterranean U, Greece  
Dimitrios Fotiadis, U Ioannina, Greece  
Elsa Angelini, Imperial College, UK  
Pedro Valdes-Sosa, Cuban Neuroscience Ctr, Cuba  
Mustafa Elattar, Nile U, Egypt  
Anant Madabushi, Case Western Reserve U, USA

#### Connection to ML Conferences

Diego Cantor, EZRA, Canada

#### Administrator

Athelia Paulli, Children's Hospital LA, USA  
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Gloria Diaz, Inst Tecnológico Metropolitano, Colombia

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