



# 12<sup>th</sup> MICCAI CLIP Workshop

Towards Holistic Patient Models  
for Personalised Healthcare

October 12, Vancouver, BC



## Workshop Description

CLIP is about the effective translation of computational image-based techniques into the clinic filling the gaps between medical imaging, basic science and clinical applications. As it nowadays becomes more and more important for many clinical applications to base decisions not only on image data alone, a focus of CLIP is on the creation of holistic patient models. Here, image data such as radiologic images, microscopy images, and photographs is combined with non-image information such as 'omics' data (e.g. genomics, proteomics), life style data, demographics, EEG, and other to build a more complete picture of the individual patient and to subsequently provide better diagnosis and therapies.

CLIP will provide a forum for work centered on specific clinical applications, including techniques and procedures based on comprehensive clinical image and other data. Submissions related to applications already in use and evaluated by clinical users are particularly encouraged. We explicitly welcome novel techniques and applications that are looking at combining image analysis with clinical data mining and analytics, user studies, and other heterogeneous data.

Topics include, but are not limited to:

- \* Combination of image analysis with other heterogeneous data including Radiography images, microscopy, photographs, genomics, proteomics, life style data, EEG, bio-data, and other
- \* Multimodal image integration for modeling, planning and guidance
- \* Strategies for patient-specific and anatomical modeling to support planning and interventions
- \* Clinical studies employing advanced image-guided methods
- \* Clinical translation and validation of image-guided systems
- \* Current challenges and emerging techniques in image-based procedures
- \* Clinical applications in open and minimally invasive procedures

<https://miccai-clip.org/>

## Important Dates

Paper submission: 25 June

Notification of paper decisions: 16 July

Camera-ready submission: 30 July

## Organizers

- Yufei Chen  
Tongji University, Shanghai, China
- Klaus Drechsler  
Aachen University of Applied Sciences, Germany
- Marius Erdt  
Singapore
- Moti Freiman  
Technion, Israel
- Cristina Oyarzun Laura  
Fraunhofer IGD, Germany
- Stefan Wesarg  
Fraunhofer IGD, Germany