Special Track
Artificial Intelligence (AI) in Breast Cancer

3rd International Symposium on Mathematical and Computational Oncology (ISMCO'21)

http://www.ismco.net

Virtual
October 11-13, 2021

Scope

Growing evidence suggests that diagnosis and treatment of Breast Cancer could benefit from advanced algorithms based on artificial intelligence (AI). Breast imaging is promising due to its non-invasive nature and great potential for early detection of abnormal tissue changes. Since morphological changes in breast cancer can sometimes be subtle, the ultimate utility of artificial intelligence algorithms needs to account for the ability to derive reliable imaging features for early cancer detection. In addition, the mining of breast images to derive quantitative signatures based on extensive feature sets as a distinct approach is a research endeavor in recent years. Our aim with this special track is to recognize the latest advances in the development and application of artificial intelligence (AI) models for studying breast cancer.

Topics

The topics of interest include, but are not limited, to the following areas:

- Breast mammogram
- Digital breast pathology
- MRI imaging-based models
- Machine learning/Deep Learning models
- Inference of clonal architecture from genomic data
- Estimation of the extent of intra-tumor genetic and non-genetic heterogeneity
- Inference about mode of tumor evolution
- Spatio-temporal dynamics of cancer progression
- Tumor dormancy and metastasis
- Visualization

Organizers

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Important Dates

See http://www.ismco.net/

Paper Submission Procedure

See http://www.ismco.net/index.php/paper-submission/