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A mathematical journey across medical data

Abstract

Now more than ever, clinical practice is deeply affected by information coming from medical imaging, thanks to both new scanners and new technologies, like the ones involved in the collection of omics data. In order to fully exploit the potentiality of medical images and omics data many computational approaches have been developed, with the aim to improve treatment of diseases and to help physicians in their clinical choices.

In this talk I will present an overview of computational methods for the reconstruction, processing and analysis of medical data.