

FMfl2023 Program

Name

Alfio Quarteroni

Affiliation

Politecnico di Milano, Milan, and EPFL, Lausanne

Title

Physics-based and data-driven mathematical models for the simulation of the heart function

Abstract

This presentation will focus on an integrated numerical model to simulate the cardiac function.

Physics-based models will represent the backbone of our approach, however their synergistic use with data driven models will be addressed as well.

Applications to several problems of clinical relevance will be discussed.