Automatic identification of intracellular features for quantitative biophysical modeling

Short description:
Design and implementation of algorithms for the automatic identification of intracellular features for quantitative biophysical modeling

Goal:
The goal of this interdisciplinary project between Computer Science and Biophysics is to design and implement segmentation algorithms for the automatic identification of intracellular features for quantitative biophysical modeling in electron microscopy data. The project will be carried out in cooperation with Dr. Nicola Fameli from the Institute of Biophysics of the Medical University of Graz.

Note: Biomedical Engineering Students are welcome!

Keywords:
Electron Microscopy, Intracellular Biophysics, Image Analysis, Calcium Signaling, Computational Simulations & Models, Cardiovascular Science, Visualization, Computer Vison

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