EIT Analysis Software on iPad

Art	Bachelorarbeit / Masterarbeit
Arbeitstitel	An EIT Analysis Software implemented on iPad

A Matlab-based prototype of an EIT analysis software shall be ported to the Apple iPad. The software shall support loading and reconstructing EIT files from different vendors, drag & drop, visualization and navigation of both the raw voltage measurements as well as accompanying ventilation data and the reconstructed EIT images. An export of images and videos shall be possible. The Apple Pencil shall be used for navigation and selection of sequences.

The project requires either porting EIT image reconstruction using the GREIT algorithm to Swift, or wrapping C++ such that it can be used in a Swift project.

Anforderungen

- Experience with Swift and iPad Development
- Experience with GUI development
- Experience with image processing is helpful
- Experience with Matlab is helpful

Kontakt

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