

Research Project

Transparent Moving Bodies on the Agora!

Third-party funded project

Project title Transparent Moving Bodies on the Agora!

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Organisation / Research unit

Departement Biomedical Engineering / Center for medical Image Analysis & Navigation (Cattin)

Department

Project start 01.06.2018

Probable end 31.05.2019

Status Completed

With the project 'Moving Bodies on the Agora!', the researchers of the Center for medical Image Analysis & Navigation CIAN want to discuss their newest research outcome with the public by way of an interactive exhibition and workshop series at Pharmazie-Historisches Museum Basel. It will be designed and organized in cooperation with media artists and designers from the Institute of Experimental Design and Media Cultures (IXDM) of FHNW. The exhibition and workshop series is designed to trigger dialogue and discussion with two target groups: youngsters and young adults. Central topic of the exhibition is the emergence of motion as a new paradigm in medical imaging. The challenge of maximizing the precision of minimal- and non-invasive treatment is inextricably linked to the highest possible accuracy of medical imaging. Since organs are moving in the respiratory cycle, motion estimation in real time is crucial to this accuracy. The individual living body has thus to be made transparent, in order to optimize the results of medical treatment. Therefore, researchers at CIAN are investigating new tools for image registration and segmentation like CT, OCT, MRI, SPECT, ultrasound and scintigraphy data. With these tools the living and moving body can be seen and experienced in real time - Transparent Moving Bodies. The planned exhibition shows some of the most immersive research tools and discusses the current development with our young audiences.

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