

Seminar über Biomedizinische Photonik

Referent/in: PD Dr. Michael Jaeger, Optoacoustic Imaging team, Institute of Applied Physics, Bern

Titel: Results of the CVENT fully integrated ultrasound and optoacoustic probe connected to the Verasonics acquisition system

Within the European H2020 project CVENT, we were part of a consortium that developed a handheld ultrasound and optoacoustic imaging probe, where a laser-diode based light source integrated inside the probe housing is used for optoacoustical detection of the optical absorption of blood vessels. During the past year, some of the partners continued connecting this probe to the Verasonics research ultrasound system, which allowed to investigate the achievable probe's performance by implementing state-of-art dedicated acquisition and software processing schemes. In this talk I will illustrate what we can achieve in examples of imaging vessels at the depth of the carotid artery in the neck, and 3D scans of blood vessels inside a human finger.

Zeit: Mittwoch, 23.11.2022, 10:15 Uhr

Ort: **Hörsaal A97**, Gebäude Exakte Wissenschaften, Sidlerstrasse 5, Bern, Schweiz