



University  
of Basel

Department of  
Biomedical Engineering



Selected research topics in Biomedical Engineering:

## **Robot- & Computer-Assisted Surgery**

Location: DBE, Hegenheimermattweg 167B, Lecture Hall 02.097

Date & Time: Wednesday 18.10.2023 13:15 – 15:00

# **Safety Engineering**

***Peter Wolf***

*Sensory-Motor Systems Lab, ETH Zurich*

## **Abstract**

Dealing with risks becomes present at the latest when technologies are to be tested in clinical trials or a conformity assessment for market entry is pending. In this context, the safety of persons involved in the development of robotic systems is central from the very beginning. In this interactive lecture, self-selected examples will be used to provide suggestions for one's own risk management. It will be discussed how all stakeholders can be involved in the process, how risks can be identified and assessed, how negative consequences of risks can be minimized and, if necessary, how to deal with remaining risks.

## **Biosketch**

Peter Wolf has supervised about 20 PhD students at the Sensory-Motor Systems Lab, ETH Zurich, in various projects on human-robot interaction. Since in some cases very high forces were exerted directly on humans by the developed robotics - to enable movements or to facilitate motor learning, safety of developers and users was often an aspect to be considered. After Peter Wolf was the Chief Operating Officer of the CYBATHLON 2016, he was in charge of developing the risk management for the CYBATHLON 2020. Apart from that, he rarely takes risks in sports, although climbing and biking are still central to his professional and private life.