

Department of



Selected research topics in Biomedical Engineering:

**Robot- & Computer-Assisted Surgery** 

Location: DBE, Hegenheimermattweg 167B, Lecture Hall 02.097

Date & Time: Wednesday 29.11.2023 13:15 - 15:00

## Interpretable and Explainable AI for Medical Decision Support

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## **Abstract**

Medical applications of AI usually need to be integrated in sometimes complex workflows where many types of information such as images, lab tests, signals and temporal aspects need to be integrated. Adding clinical decision support can help in many situations but clinicians who are usually responsible for final decisions also need to understand how an AI-based decision support system came to a specific decision. Several approaches to explainable AI will be described and compared.

## **Biosketch**

Henning Müller studied medical informatics at the University of Heidelberg, Germany, then worked at Daimler-Benz research in Portland, OR, USA. From 1998-2002 he worked on his PhD degree at the University of Geneva, Switzerland with a research stay at Monash University, Melbourne, Australia. Since 2002 Henning has been working for medical information at the University hospital of Geneva. Since 2007 he has been at the HES-SO Valais and since 2011 he is responsible for the eHealth unit. Henning is coordinator of the Khresmoi project, initiator of the ImageCLEF benchmark has authored over 300 scientific papers and is in the editorial board of several journals.