Ringvorlesung Medizinische Informatik

Visual decision support and visual retrieval for very large histopathology images
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Vorlesung:	16.04.2019, 13:15 – 14:45
Nachbesprechung:	18.04.2019, 13:15 – 14:45
Ort:	IZ 404

Histopathology is in the process of being digitized in many hospitals but the extremely large images (100,000x100,000 pixels) and the large amount of abstract data pose many challenges. Machine learning has been helping clinicians with some tedious tasks in the tissue analysis of such images, mainly focusing on cancer. The presentation will explain some of the work done at the MedGIFT group in Sierre on histopathology images and also show a visual retrieval system that deals with these data.

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 atthe University of Geneva, Switzerland with a research stay at Monash University, Melbourne, Australia. Since 2002, Henning has been working for the medical informatics service at the University Hospital of Geneva. Since 2007, he has been a full professor at the HES-SO Valais and since 2011; he is responsible for the eHealth unit of the school. Since 2014, he is also professor at the medical faculty of the University of Geneva. In 2015/2016 he was on sabbatical at the Martinos Center, part of Harvard Medical School in Boston, MA, USA to focus on research. Henning is coordinator of the ExaMode EU project, was coordinator of the Khresmoi EU project, scientific coordinator of the VISCERAL EU project and is initiator of the ImageCLEF benchmark that has run medical tasks since 2004. He has authored over 400 scientific papers with more than 12,000 citations and is in the editorial board of several journals

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