



Machine learning in imaging

Date Friday November 29, 2019, 9:30 – 17:00
Location University of Bern, UniS, lecture hall A003, Schanzeneckstrasse 1, 3012 Bern
Scientific committee Inti Zlobec, Guillaume Witz, Raphael Sznitman, Mauricio Reyes
Approved for 0.5 day credit for continued animal experimentation in the Canton of Bern

09:30 Welcome coffee and registration

10:30 Welcome: Hans-Uwe Simon, *Dean of the Medical Faculty*
 David Spreng, *Dean of the Vetsuisse Faculty*
 Britta Engelhardt, *President of the MIC*

Session 1. Chairs: Inti Zlobec, Raphael Sznitman

10:35 Machine learning at the University of Bern
 An overview presented by the scientific committee

10:45 **Jean-Philippe Thiran** Inverse problems in ultrasound imaging: Efficient modeling, sparse regularization and neural networks
EPFL, Lausanne, CH
 Keynote

11:30 **Anna Kreshuk** Image segmentation at scale
EMBL, Heidelberg, DE

12:00 **Michael Schell** Teacher or student? How to teach AI to pick correct confocal microscopy images
Cenibra GmbH, DE

12:15 Lunch and industry exhibition

Session 2. Chairs: Guillaume Witz, Mauricio Reyes

13:45 **Inti Zlobec** Digital pathology in translational research
University of Bern, CH

14:15 **Andrew Janowczyk** Computational pathology: Towards precision medicine
Lausanne Univ. Hospital, CH

14:45 **David Pointu** Advantages of IN Carta Phenoglyphs™ HCA machine learning module
GE Healthcare AG, CH

15:00 Coffee and industry exhibition

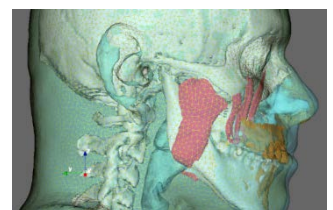
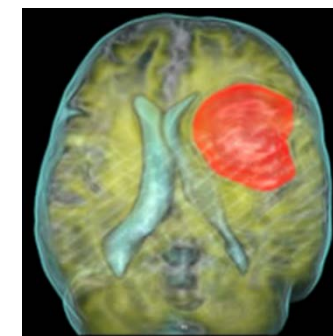
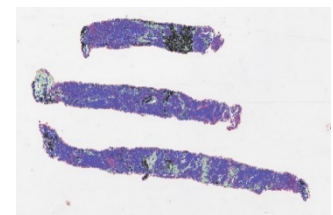
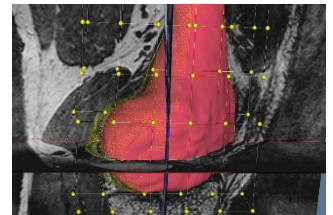
Session 3. Chairs: Mauricio Reyes, Raphael Sznitman

15:30 **Gergely Kovach** High resolution whole tissue imaging for 3D analysis
Sysmex Suisse AG, CH

15:45 **Ender Konukoglu** On Bayesian models with networks for reconstruction and detection
ETH Zürich, CH

16:15 **Christine Decaestecker** Segmentation of histopathological images: How to reduce the supervision needs for deep learning
University of Brussels, BE

16:45 Conclusions and farewell



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Registration

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http://www.mic.unibe.ch/symposium_registration.php



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