UNIVERSITÄT BERN

Research Symposium 2024
Center for AI in Medicine

Thursday, 31 October 2024, 9.00-14.30h
Auditorium Langhans, ITMP, Universität Bern

Google DeepMind, Pexels

INSELGRUPPE

siteminsel

UNIVERSITÄRE PSYCHIATRISCHE DIENSTE BERN

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CAIM Research Projects 2022

Improving risk prediction in myocarditis

Myocarditis is a potentially fatal inflammation of the heart muscle often caused by viruses. The project at the Inselspital, Bern University Hospital, developed a machine learning algorithm for automatic cardiac MRI analysis to improve patient risk stratification.

Personalized kidney stone prevention

Kidney stones, affecting up to 15% of the population, cause significant health and financial burdens due to their high recurrence rate. This project of the Inselspital with the University of Bern aims to predict kidney stone type and recurrence risk using commonly available demographic and urinary parameters.

Imaging-independant MS progression tracking

Multiple sclerosis (MS) requires lifelong care and regular MRI examinations, but changing imaging technology can disrupt data comparison over time. 3D segmentation of MRI modalities using geometric deep learning, developed at the Inselspital with sitem-insel, could enable seamless comparison of different imaging standards, for location-independent, individually adapted treatment for every MS patient.

Timely care to all patients

Nurses, especially in psychiatric hospitals, often face stress due to the inability to assess the urgency of patient alerts. A digital care assistant that uses multimodal sensor data to identify urgent situation could alleviate this. The project is carried out by the University of Bern and Bern Psychiatric Services.

Digital tool to self-manage menopause risks

Menopausial health risks are no longer just accepted; women increasingly look for self-empowering tools to mitigate them. With the University of Bern, the Inselspital develops a digital health app for personalized risk assessment using wearable data.

CAIM

CENTER FOR ARTIFICIAL INTELLIGENCE IN MEDICINE

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Symposium Program

9.00h	**Welcome**	Raphael Sznitman, Director Center for AI in Medicine (CAIM)
9.05h	**Introduction**	Claudio Bassetti, Dean Medical Faculty, University of Bern
9.20h	**CAIM Projects 2022 I: Results**	Christoph Gräni / Yasaman Safarkhanlo Daniel Fuster / Rémy Bruggmann
10.00h	**Coffee Break (Foyer)**	
10.30h	**CAIM Projects 2022 II: Results**	Richard McKinley / Piotr Radojewski Tobias Nef / Stefan Klöppel Petra Stute / David Ginsbourger
11.30h	**Keynote «AI and the Future of Radiology»**	Daniel Rückert, TUM
12:15h	**CAIM Awards**	Stavroula Mougiakakou / Inti Zlobec
12:30h	**Stand-up Lunch (Foyer)**	
13.15h	**CAIM Fellows 2024**	Miguel Ariza Markus Huber Amjad Khan Pablo Márquez-Neila Eva Peper
14.15h	**Closing Words**	Raphael Sznitman

Registration:

www.caim.unibe.ch/symposium2024_register/

University of Bern
Center for Artificial Intelligence in Medicine
Murtenstrasse 50, 3008 Bern

+41 31 684 14 00
info.caim@unibe.ch

www.caim.unibe.ch