



Seminar



Daniel Reisenbüchler

Doctoral student with Prof. Dr. Dorit Merhof
Fakultät für Informatik und Data Science
Universität Regensburg

AI Methods for Computational Pathology

Recent advancements in AI, the adoption of digital slide scanning, and the availability of high-performance computing resources have significantly advanced the field of computational pathology and also offer great potential for future developments. Deep learning techniques enable rapid tissue assessment for tasks such as disease sub-typing and grading, tissue segmentation, response-to-treatment prediction, mutation prediction, biomarker screening, and automatic pathology report generation. Notably, several AI-driven methods have already received FDA approval.

In this session, we will explore the latest AI approaches in computational pathology, with a special focus on the integration of imaging and multi-omics data, particularly in renal histology. We will also discuss the future directions of these technologies and the necessary steps to expand their application from cancer diagnostics to general renal pathology. Accordingly, we are also looking forward to discuss such options for joint research with the TRR members.

Time: Monday, December 2, 2024, 13:00h
Location: Seminarraum Physiologie
VKL 4.1.29
Universität Regensburg
and Zoom

To get the Zoom link please contact:
michaela.kritzenberger@ur.de