MIDAS LAB – Seminar WS 2022/2023

Prof. Dr. Thomas Küstner, Prof. Dr. Sergios Gatidis

Location: CRONA, level 3, building 420, Radiology Department, Seminar room 410 or Zoom (https://zoom.us/j/93307222414?pwd=dmIzTnQxUUN2My9NNGJtZGx5c1VQdz09)

Date (in UTC+1)	**Topic**	**Speaker**
12.10.22 2 pm	MICCAI Recap	Küstner
19.10.22 2 pm		(open)
26.10.22 2 pm	Medical Representation Learning for therapy response and data integration	Agrawal
02.11.22 2 pm	Classification-guided Neural Network-based Correction of Magnetic Resonance-related Gradient Artifact Residuals in Simultaneously Recorded Surface Electromyography	Schwartz
09.11.22 2 pm	Cross-study analysis of imaging data	Gatidis
16.11.22 2 pm	Attention-based motion detection in epidemiological cohorts	Jan Borst (student)
23.11.22 2 pm		(open)
30.11.22 2 pm	Prompt Tuning for Medical Image Segmentation	Fischer
07.12.22 2 pm	Journal Club: “Contrastive Learning of Medical Visual Representations from Paired Images and Text” (https://arxiv.org/pdf/2010.00747.pdf)	Dani
14.12.22 2 pm	Interplay of Type 2 Diabetes and Bone Health	Haueise
21.12.22 2 pm	Christmas seminar	Küstner, Gatidis

28.12.22 - 04.01.23	*Christmas break*	
11.01.23 **1 pm**	Dense Contrastive Learning	Früh
18.01.23 **1 pm**	Deep learning reconstruction for cardiac CINE	Xu
25.01.23 2 pm	Brainstorming new hot topics	all
01.02.23 2 pm	Explainable AI	Cobos
08.02.23 **1 pm**	HoloLens	Daul
15.02.23 2 pm	Avoiding shortcut-learning by mutual information minimization in deep learning-based image and feature processing	Fay
22.02.23 2 pm	Through-plane super resolution with slice profile modelling for cardiac MRI investigated in the UK Biobank	Hanjie Li (student)
22.02.23 2:30 pm	Motion-compensated BLADE-MRI image reconstruction using classical and generative networks	Andreas Wagner (student)
01.03.23 2 pm	*ECR*	
08.03.23 2 pm	Journal Club: “VeLO: Training Versatile Learned Optimizers by Scaling Up” (https://arxiv.org/abs/2211.09760)	Ghoul
15.03.23 2 pm	MR reconstruction for 2020s	Jiazhen Pan (TUM)
22.03.23 2 pm		(open)
29.03.23 2 pm	It takes neurons to understand neurons	Cobos