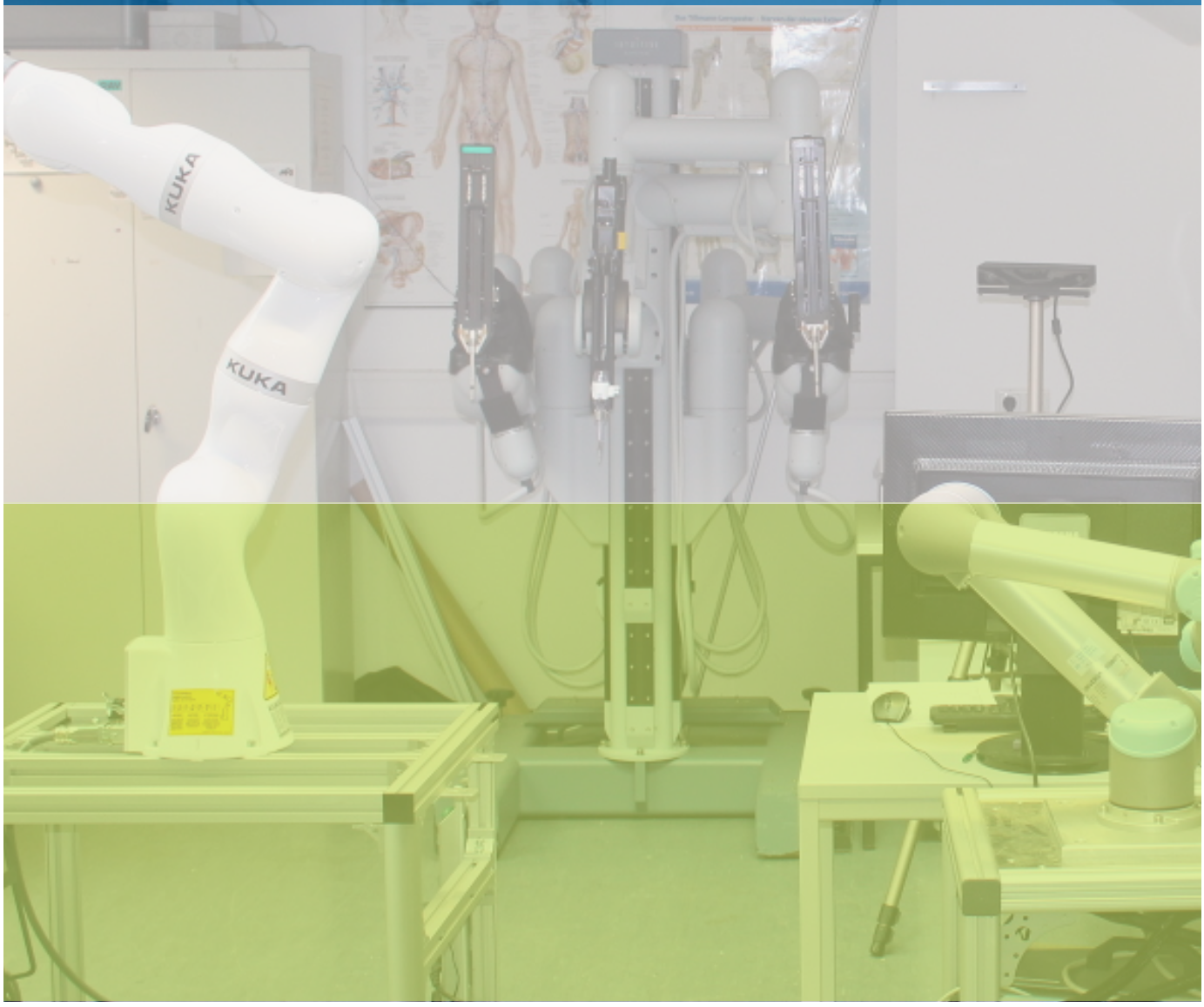
DEEP LEARNING

WORKSHOP FOR PROFESSIONALS



VIRTUAL EVENT

APRIL 5, 2022 | 10AM-4PM

CHAIR OF COMPUTER AIDED MEDICAL PROCEDURES
TECHNICAL UNIVERSITY OF MUNICH

CAMP

SCHEDULE OF TALKS

OPENING REMARKS — 10:00
BY PROF. DR. NASSIR NAVAB

INTERPRETING NEURAL NETWORKS — 10:15
BY ASHKAN KHAKZAR

DEEP LEARNING FOR TIME-SERIES DATA — 11:15
BY TOBIAS CZEMPIEL

BREAK

ALL ABOUT GRAPH DEEP LEARNING — 12:45
BY DR. ANEES KAZI

LEARNING TO SEE IN 3D — 13:45
BY DR. BENJAMIN BUSAM

FEW-SHOT LEARNING — 14:45
BY AZADE FARSHAD

SPEAKERS

ASHKAN KHAKZAR

PhD candidate, TUM

Ashkan is a PhD candidate at TUM, affiliated with the Munich Center for Machine Learning and the Chair for Computer Aided Medical Procedures (Prof. Nassir Navab). He is a researcher in the domain of explainable machine learning and machine learning for medical imaging. His research is published in top-tier machine learning venues such as CVPR and NeurIPS and the premier medical image computing venue, MICCAI. His works range from fundamental research in explainability and its applications in medical imaging. He has received the outstanding reviewer awards at ECCV and CVPR.

TOBIAS CZEMPIEL

PhD Candidate, TUM

Tobias is a third-year PhD student at CAMP. He finished his master's at Technical University Munich in Biomedical Computing before starting his PhD at the chair for Computer-aided Medical Procedures. In his research, Tobias is working in the field of Surgical Data Science, intending to create cognitive systems for the Operating Room. His particular focus is studying and recognizing the surgical workflow from laparoscopic and operating room cameras. He is especially interested in the temporal aspects of the analysis process, combining different sensors and modalities with advanced time-series analysis. His research is recognized in top-tier conferences for the intersection between computer science and medicine, such as MICCAI. Additionally, he is passionate about teaching and created together with two coworkers a course specifically designed for medical students teaching the students the fundamentals of deep learning for medicine to improve the collaboration between medical and technical experts in this area.

SPEAKERS

DR. ANEES KAZI

Senior Research Scientist, TUM

Anees is a postdoctoral fellow focusing on Geometric Deep Learning (GDL) for Medical applications. She finished her Ph.D. in May 2020 on the topic of Graph Deep Learning for Healthcare. During her Ph.D., she focused on multi-modal data analysis, disease prediction, data imputation using GDL. In 2019 Anees was appointed the Global Incentive Award by the Technical University of Munich for her internship position at Imperial College London. She worked together with Prof. Michael Bronstein. During her stay at Imperial, her primary focus was on graph learning for population data in computer vision and the medical domain.

DR. BENJAMIN BUSAM

Senior Research Scientist, TUM

Formerly Head of Research at FRAMOS Imaging Systems, he led the 3D Computer Vision Team at Huawei Research, London from 2018 to 2020. Benjamin studied Mathematics at TUM. In his subsequent postgraduate programme, he continued in Mathematics and Physics at ParisTech, France and at the University of Melbourne, Australia, before he graduated with distinction at TU Munich in 2014. He now works on 2D/3D computer vision for pose/depth estimation, mobile AR and multi-modal sensor fusion as well as collaborative (medical) robotics. He received EMVA Young Professional Award 2015 from the European Machine Vision Association, the Innovation Pioneer award of the Year 2019 by Noah's Ark Laboratory, London, and the 3DV Outstanding Reviewer Award consecutively in 2020 and 2021.

SPEAKERS

AZADE FARSHAD

Senior Research Scientist, TUM

Azade Farshad is a 4th year Ph.D. candidate at TUM, affiliated with the CAMP chair and Munich Center for Machine Learning. She has a strong background and has been actively involved in fundamental deep learning research around generative models, scene graphs, and meta-learning. Her passion is towards reducing the amount of supervision needed for training and, going further, working towards building models with no supervision whatsoever. Her works are published in top-tier computer vision and medical conferences. Amongst others, she has presented a tutorial at the MICCAI conference and written two book chapters on meta-learning.

LINK TO MEETING

https://tum-conf.zoom.us/j/63742927178

SLIDES

You can access the slides here

FEEDBACK

Please give us your feedback

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