



Technical  
University  
of Munich



Computer Aided Medical Procedures



**ImVis 2022**

12th Workshop on Advanced  
Imaging and Visualization

April 9<sup>th</sup> - April 14<sup>th</sup>

Lake Faak, Austria

Supported by



## Keynote Speakers

Prof. Dr. **Nassir Navab** Technical University Munich

Prof. Dr. **Nicolas Padoy** University of Strasbourg

Prof. Dr. **Christian Wachinger** Technical University Munich

Dr. **Pietro Mascagni**, MD University of Strasbourg

Dr. **Tolga Birdal** Imperial College London

## Preliminary Program Schedule

### Saturday 9<sup>th</sup>

- 13:30 Meeting at ZOB Munich
- 14:00 Departure by Bus to Faak
- ca. 18:15 Arrival at BFSZ Faak
- 18:15 - 19:15 Dinner
- 19:15 - 19:30 Room Key Distribution

### Sunday 10<sup>th</sup>

- 07:30 - 09:00 Breakfast
- 09:00 - 09:15 Sunday Welcome
- 09:15 - 12:00 Team Rallye
- 12:00 - 13:00 Lunch
- 14:00 - 18:00 Activity – Hiking, sports
- 18:15 - 19:15 Dinner
- From 20:00 Games Night

### Monday 11<sup>th</sup>

- 07:30 - 09:00 Breakfast
- 09:15 - 10:00 Welcome and Group Introduction  
Prof. Navab
- 10:00 - 10:45 Group Introduction Prof. Padoy
- 10:45 - 11:00 Coffee Break
- 11:00 - 11:45 Group Introduction Prof.  
Wachinger
- 12:00 - 13:30 Lunch
- 13:30 - 14:00 Jean-Paul Mazellier
- 14:00 - 15:00 Talk Session Tue1 (4 rounds)
- 15:00 - 15:15 Coffee Break
- 15:00 - 16:00 Talk Session Tue2 (3 rounds)
- 16:00 - 18:00 Sports & Afternoon Activities

- 18:15 - 19:15 Dinner
- Evening Social barCAMPs

### Tuesday 12<sup>th</sup>

- 07:30 - 09:00 Hotel Breakfast
- 09:00 - 09:30 Vinkle Srivastav
- 09:30 - 10:00 Coffee Break
- 10:00 - 11:30 Group Internal Sessions
- 11:30 - 12:00 Pietro Mascagni
- 12:00 - 13:00 Lunch
- 13:00 - 14:00 barCAMP Workshops
- 14:00 - 15:00 Talk Session Wed 2 (4 rounds)
- 15:00 - 15:15 Coffee Break
- 15:15 - 16:00 Talk Session Wed3 (3 rounds)
- 16:00 - 18:00 Sports & Afternoon Activities
- 18:15 - 19:15 Dinner
- From 21:00 Disco Night

### Wednesday 13<sup>st</sup>

- 07:30 - 09:00 Breakfast
- 09:00 - 09:30 Tong Yu
- 09:30 - 10:00 Chinedu Nwoye
- 10:00 - 11:00 Heinz Deutschmann
- 11:15 - 12:00 Zhongliang Jiang
- 12:00 - 13:00 Lunch
- 13:00 - 14:00 Talk Session Wed1 (4 rounds)
- 14:00 - 15:00 Talk Session Wed2 (4 rounds)
- 15:00 - 16:00 barCAMP Workshops
- 16:00 - 18:00 Sports & Afternoon Activities
- 18:15 - 19:15 Dinner
- From 20:00 Trivia Night

## Thursday 14<sup>th</sup>

07:30 - 09:00	Breakfast
09:00 - 10:00	Dr. Tolga Birdal
10:00 - 10:45	Anees Kazi
10:45 - 11:00	Coffee Break
11:00 - 11:30	Sebastian Pölsterl
11:30 - 12:00	Indu Joshi
12:00 - 12:45	Lunch
12:45	Meeting at bus
13:00	Departure by bus to Munich
ca. 17:15	Arrival at ZOB Munich

## Talk & barCAMP Schedule

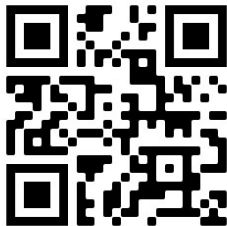
The latest schedule for the talk sessions is available on our website

<https://www.in.tum.de/campar/news/article/imvis-2022/>

### Program



### Telegram



## Main Venue (Hotel)

### Bundessport- und Freizeitzentrum (BSFZ)

Halbinselstraße 14  
9583 Faak am See  
Austria

<http://www.faakersee.bsfz.at/>



## Organization

### Chair for Computer Aided Medical Procedures

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## Topics

*Dr. Jean-Paul Mazellier*

### On Endoscopic Ultrasound

*Dr. Vinkle Srivastav*

### Self-supervised 3D Human Pose Estimation

*Dr. Pietro Mascagni, MD*

### Computer vision in surgery: from proof of concept to clinical translation

*Dr. Tong Yu*

### Unsupervised Endoscopic Vision

*Dr. Chinedu Nwoye*

### Surgical Triplet Recognition

*Heinz Deutschmann, CEO medPhoton GmbH*

### Robotic Medical Imaging

*Zhongliang Jiang*

### Robot-assisted Ultrasound Imaging

*Dr. Tolga Birdal*

### Dynamic Object & Human Representation Learning

*Dr. Anees Kazi*

### Graph Neural Networks

*Dr. Sebastian Pölsterl*

### Estimation of Causal Effects in the Presence of Unobserved Confounding in the Alzheimer's Continuum

*Dr. Indu Joshi*

### Generalizable and Explainable Deep Models