

Questions?

Responsible people:

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For any question regarding the conference,
please contact us at

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PRL Conference Winter 2023

March 6th – 10th, Ramsau am
Dachstein (Austria)

Presentations

Public: [https://fau.zoom.us/j/61360917228?](https://fau.zoom.us/j/61360917228?pwd=azZKY2xDWk5ONWNQc01XbzIrNWZlQT09)
[pwd=azZKY2xDWk5ONWNQc01XbzIrNWZlQT09](https://fau.zoom.us/j/61360917228?pwd=azZKY2xDWk5ONWNQc01XbzIrNWZlQT09)
Passcode: 23WSPub

Pattern Recognition Lab

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Monday 6th March

16:00 Poster Session 1:

- 16:00 *Martin Leipert* PRL/CV
Opimised CT measurement for Shoes
- 16:00 *Alexander Barnhill* PRL/SAGI
Orca is VAE - Variational Autoencoders for Bioacoustic Signal Encoding
- 16:00 *Linda Schneider* PRL/IPA
Learning-based Trajectory Optimization for a Twin Robotic CT System
- 16:00 *Mathias Öttl* PRL/DigiPatho
HER2 Tumor Subtype Balancing with Generative Networks
- 16:00 *Mingxuan Gu* PRL/LAMBDA
Lacuanr and Blood Vessel Modelling for Cortical Bone Simulation
- 16:00 *Zijin Yang* PRL/MRI
Joint Training of Reconstruction and Segmentation in MR images
- 16:00 *Kai Packhäuser* PRL/LAMBDA
Generation of Anonymous Chest Radiographs Using Latent Diffusion Models for Training Thoracic Abnormality Classification Systems
- 16:00 *Mikhail Kulyabin* PRL/LAMBDA
Synthesizing Art Historical datasets
- 16:00 *Frauke Wilm* PRL/DigiPatho
Mind the Gap: Scanner-Induced Domain Shifts Pose Challenges for Representation Learning in Histopathology
- 16:00 *Dominik Stecher* PRL/DPUI
Metrics for Fault Detection in District Heating Systems
- 16:00 *Mathias Zinnen* PRL/CV
The ODOR Dataset
- 16:00 *Timo Klemm* PRL/IPA
Simulation of photon counting data using GANs

Tuesday 7th March

13:00 Poster Session 3:

- 13:00 *Mareike Thies* PRL/IPA
Geometry Gradients for CT Motion Compensation
- 13:00 *Florian Goldmann* PRL/IPA
Deep Learning for Tile Classification of Pelvic Ring Fractures
- 13:00 *Zhaoya Pan* PRL/CV
Confocal laser endomicroscopy for oral cancer detection
- 13:00 *Luis Carlos Rivera M* PRL/LAMBDA
Employing Graph Representations for Cell-Level Characterization of Melanoma MELC Samples
- 13:00 *Sally Zeitler* PRL/CV
Determination of sheet metal deformation limits using Deep Learning
- 13:00 *Jingna Qiu* AIMI
Adaptive region selection for active learning in whole slide image semantic segmentation
- 13:00 *Sebastian Wind* PRL/ECG
Generating academic reviews using large language models
- 13:00 *Badhan Das* PRL/MRI
Self supervised pre-training for MRI
- 13:00 *Maximilian Rohleder* PRL/IPA
Geometry Aware Learning Through Differentiable Epipolar View Translation
- 13:00 *Maximilian Reymann* PRL/IPA
Methods for Characterization of DDG Algorithms in Emission Tomography
- 13:00 *Nastassia Vysotskaya* PRL/IPA
Radar-based Vital Sensing (general overview over signal processing techniques and applications + future research)
- 15:00 Break
- 15:15 **Talks session 2:**
- 15:15 *Merlin Nau* PRL/IPA
Quantum Computing for Medical Image Reconstruction

- 15:30 *Paul Stöwer* PRL/CCN
Is the Hippocampus the CPU of the brain?
- 15:45 *Sonja Kunzmann* PRL/CV
An unobtrusive quality supervision approach for medical image annotation
- 16:00 *Helber Carvajal* UdeA
Gait Analysis in Parkinson's Disease Patients Using Insole Sensors
- 16:15 *Dr. Jimmy Kunzmann* Guest
Industrial Research at IBM/EML/Alexa on Spoken Language Understanding
- 17:15 *Mental Health Team* PRL
Mental Health Discussion

Wednesday 8 March

17:00 Talks session 4:

- 17:00 *Hakan Calim* PRL/CV
Walking with SENSATION on a sidewalk
- 17:30 *Hendrik Schröter* PRL/SAGI
DeepFilterNet: Real-Time Noise Reduction for your Zoom Calls
- 17:45 *Paula Pérez* PRL/SAGI
Spanglish Transformers
- 18:00 *Blanda Helena de Mello* Unisonos
A semantic interoperability model based on NLP for non-structured health data