

Thursday 28th July

10:30 Talks session 5:

10:30 *Dr. Christian Marzahl* Guest
Hands-on MLOps with Open-Source tools

11:30 *Karthik Shetty* PRL/IMF
PLIKS: A Pseudo-Linear Inverse Kinematic Solver for 3D Human Body Estimation

11:45 *Dominik Stecher* PRL/DPUI
Time Series Clustering

12:00 Lunch

Questions?

Responsible people:

Paula Andrea Perez
Laura Pfaff
Annette Schwarz
Saahil Islam
Manuela Meier
Adithya Ramachandran
Alexander Barnhill
Thomas Gorges

For any question regarding the conference, please contact us at

- cs5-prs-orga@lists.fau.de

PRL Conference Summer 2022

July 25th – 29th, Obertrum (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: PRS2022SS

Pattern Recognition Lab

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Monday 25th July

16:00 Poster Session 1:

- 16:00 *Maximilian Reymann* PRL/IPA
Assessment of DDG methods for SPECT
- 16:00 *Felix Denzinger* PRL/LAMBDA
CAD-RADS Scoring Using Deep Learning and Task-Specific Centerline Labeling
- 16:00 *Aline Sindel* PRL/CV
Multi-modal Retinal Image Registration Using a Keypoint-Based Vessel Structure Aligning Network
- 16:00 *Lukas Folle* PRL/MRI
Psoriasis severity grading in natural images of the hand
- 16:00 *Chang Liu* PRL/LAMBDA
Biplanar CT reconstruction with enhanced organ segmentation
- 16:00 *Merlin Nau* PRL/IPA
Impact on Noise from System Model Mismatch in Iterative SPECT Reconstruction
- 16:00 *Felix Meister* PRL/LAMBDA
Fast Automatic Liver Tumor Radiofrequency Ablation Planning via Learned Physics Model
- 16:00 *Luis Carlos Rivera* PRL/LAMBDA
Melanoma Segmentation and Classification Employing MELC Imaging and Graph Encodings
- 16:00 *Mareike Thies* PRL/IPA
Extraction and statistical evaluation of lacuna shapes in murine tibia bones
- 16:00 *Fasil Gadjimuradov* PRL/MRI
Efficient Exploitation of Image Repetitions in MR Reconstruction
- 16:00 *Paul Stöwer* PRL/CCN
The Hippocampus, the Successor Representation and Memory
- 16:00 *Mathias Öttl* PRL/LAMBDA
Superpixel Pre-Segmentation of HER2 Slides for Efficient Annotation

Tuesday 26th July

9:00 Talks session 1:

- 9:00 *Prathmesh Madhu* PRL/CV
Ph.D. in Digital Humanities: A journey
- 9:15 *Sebastián Roldán* UdeA
Assessment of oropharyngeal dysphagia using multimodal biosignals
- 9:30 *Mingxuan Gu* PRL/LAMBDA
Contrastive Fewshot Unsupervised Domain Adaptation for Cardiac Image Segmentation
- 9:45 *Zijin Yang* PRL/MRI
MRI Lesion detection
- 10:00 Break
- 10:30 *Prof. Dr. Tobias Wech* Guest
Model- and data-driven cardiac MRI
- 11:30 *Kubilya Can* DHIP/AIBE
PoCaP Corpus: A Multimodal Dataset for Smart Operating Room Speech Assistant using Interventional Radiology Workflow Analysis
- 11:45 *Tobias Weise* DHIP/AIBE
Disentangled Latent Speech Representations for Automatic Pathological Intelligibility Assessment
- 12:00 Lunch break
- 14:00 **Poster Session 2:**
- 14:00 *Labathon* PRL
AMOS2022 and Anti-attention Attention
- 14:00 *Zhaoya Pan* PRL/CV
Differentiating carcinoma via CLE frames
- 14:00 *Linda Schneider* PRL/IPA
AI-based acquisition trajectory
- 14:00 *Junaid rasool Rajput* PRL/IPA
MR CEST image registration
- 14:00 *Saahil Islam* PRL/IPA
Multimodal Masked Image Modeling Methods for learning Medical Image Representations
- 14:00 *Martin Leipert* TH Deggendorf
Memory efficient volumetric shoe segmentation

- 14:00 *Badhan Kumar Das* PRL/MRI
Evolvable AI for Neuroimaging
- 14:00 *Sebastian Wind* PRL/ECG
A framework for automated literature review
- 14:00 *Dalia Rodriguez* PRL/LAMBDA
ForestNets for Everyone
- 14:00 *Mathias Zinnen* PRL/CV
The ODEuropa Competition on Olfactory Object Recognition (ODOR)
- 15:00 Break
- 15:30 **Talks session 2:**
- 15:30 *Prof. Dr. Seung Hee Yang* DHIP/AIBE
Is Speech Pathology a Biomarker in Automatic Speaker Verification?
- 16:00 *Florian Thamm* PRL/LAMBDA
Descendants
- 16:15 *Alexander Barnhill* PRL/SAGI
ORCA-WHISPER: An Automatic Killer Whale Sound Type Generation Toolkit Using Deep Learning
- 16:30 *Paula Pérez* PRL/SAGI
50 Shades of Gray: Joining the Dark Side
- 16:45 *Maximilian Rohleder* PRL/IPA
Between Statistical and Geometrical Shape Models: Avoiding Metal Artefacts by Optimizing Trajectories

Wednesday 27th July

- 10:15 **Talks session 3:**
- 10:15 *Dr. Nir Shlezinger* Guest
Model-Based Deep Learning in Signal Processing and Communications
- 11:30 *Florian Kordon* PRL/CV
Gutenberg put to the test: revisiting the history of printing with movable type
- 11:45 *Sonja Kunzmann* PRL/CV
Hands on Gamification
- 12:00 Lunch break