

AAPR|23 - Final Programme

24.10.2023			
9:30	Opening		
9:40	Session 1: Medical Imaging	Moritz Erlacher	Joint Non-Linear MRI Inversion with Diffusion Priors
		Christoph Fürböck	Combining multi-modal imaging data increases performance of deep learning model for breast cancer sub-type prediction
		Simon Gutwein	GENUINE: Genomic and Nucleus Information Embedding for Single Cell Genetic Alteration Classification in Microscopic Images
10:45	Coffee break		
11:15	Session2: 3D Vision	Shromm Gaid	Evaluating 2D vs 3D Neural Network Efficacy in Sow Posture Detection With Synthetic Data
		David Schinagl	How Geometric Context Improves Confidence Estimation for LIDAR-based 3D Object Detectors
12:00	LUNCH BREAK		
13:30	Invited talk	Joel Podgorski	Estimating geogenic groundwater quality hazard and health risk using spatial prediction modeling
14:15	Coffee break + Start of Poster Session		
14:45	Poster Session		
16:00	Session 3: Computer Vision and Remote Sensing	Marvin Burges	Scientific Spotlight: Self-Supervised Learning for Historical Aerial Images
		Christian Stippel	From RGB to Depth and Thermal: Mapping between Modalities to Alleviate Data Scarcity
		Vladimir N Zeljkovic	Dimensionality reduction for AI based hyperspectral image classification based on XAI
17:00	End of workshop day 1		
17:00	AAPR/OAGM Yearly Meeting		
18:00	Reception		

25.10.2023			
9:30	Invited talk	Gerhard Ecker	In silico Prediction of Toxicity - from QSAR models to biological Fingerprinting
10:15	Invited talk	Christoph Bock	Programmed Cells? Machine learning for molecular precision medicine
11:00	Coffee break		
11:30	Panel discussion: Paths from Science to Application in Pattern Recognition and Machine Learning		
12:30	LUNCH BREAK		
13:45	Session 4: Multi-modal machine learning	Lorenz Kapral	Continuous prediction of intraoperative blood pressure using transformer models
		Emese Sükei	Learning Transferable Retinal Representations from Multi-modal Imaging via Contrastive Pre-training
14:25	Coffee break		
14:50	Session 5: Temporal models	Kristian Bredies, Enis Chenchene	Spotlight: Regularized Bregman Approach for Total-Variation Parameter Learning
		Philipp Schwarz	Resolving Temporal Misalignment in Gait Recognition
		Raquel Panadero Palenzuela	Cyclist Trajectory Prediction from an Ego-Vehicle Camera Using Recurrent Neural Networks
15:50	Closing and best paper award		
16:00	End of workshop day 2		

Location: Van Swieten Saal der Medizinischen Universität Wien
Van-Swieten-Gasse 1a
1090 Wien

Getting there: <https://vanswietensaal.meduniwien.ac.at/standort-anreise/>

Poster session (24.10.2023 14:45 - 16:00)	
Costin Bernhart	RetroFaceID: Face Recognition in Historical Image Archives
Bertram Sabrowsky-Hirsch	Automatic Anatomical Annotation of CBCT Scans for Maxillofacial Prosthetics
Martina Uray	Continuous 3D measurement of formed parts - An optimized workflow
Andreas Flatscher	Horse Behaviour Classification During Air Transportation Using YOLO Object Detector
Daniel Sobotka	Enhancing liver fibrosis prediction on non-contrast T1w images with auxiliary MR elastography data
Stefan Josef Arzberger	Domain Adaptation of 3D Object Detection for Infrastructure Monitoring
Harald Ganster	AI-based Hyperspectral Analysis for Circular Economy Applications
Botond Fazekas	Semi-supervised retinal biomarker segmentation in Optical Coherence Tomography with topological guarantees
Branko Mitic	Domain shift detection for an emerging infectious lung disease monitor
Sarah A. Schneider	Encoding Semantic Properties - Unveiling Explainable AI for Industrial Inspection
Javier Ureña Santiago	Vision Transformers in disinfection assertion: Comparative study of SOTA architectures in weakly-supervised learning microorganism counting