

Scientific Program  
3<sup>rd</sup> of March, 2023

Session 5 - Track B		
Machine Learning / AI 4		
Time	Chair:	
9:00	41	<i>M. Schönknecht, F. Winter</i> Comparison of Selected Deep-Learning Approaches for Video-Based Sleep Detection in Neonatal Care
9:12	72	<i>B. Keohane, L. Duarte, B. Silski, S. Goebel</i> Clinical evaluation of a Deep Learning approach for glenohumeral joint segmentation in CT images
9:24	37	<i>A.-K. Popp, M. Schumacher, M. Himstedt</i> Adaptive Contrast Enhancement with Image-to-Image Translation for Digital X-Ray Images
9:36	105	<i>F. Petrat</i> Bodypart segmentation in radiography using Time-of-Flight Cameras
9:48	96	<i>K. Heber</i> Segmentation of medium-sized Pulmonary Vessels based on a 3D U-Net Approach
10:00	Coffee Break	
Session 6 - Track B		
Medical Imaging		
Time	Chair:	
Prof. Dr. Mattias Heinrich		
10:15	87	<i>T. T. Dominikos, A. Sommer, C. Schareck, M. Scharfschwerdt, M. Balks, C. Damiani</i> Experimental Validation of a software Tool used for determining the Pulse Wave speed in blood Vessels from 2D MRI data
10:27	73	<i>H. Kurla Shankarareddy, M. Himstedt</i> Colon Segmentation and Centerline Estimation in Abdominal CT Scans
10:39	62	<i>M. Rippa, R. Schulze, M. Himstedt</i> Classification of Prostate Cancer in 3D Magnetic Resonance Imaging Data based on Convolutional Neural Networks
10:51	5	<i>H. Stolle, I. Ellerkamp</i> Analysis and Correction of Thermally Induced Errors of Time-of-Flight Cameras
11:03	30	<i>M. Frerkes, S. Seeger, M. Rafecas</i> Proof of Concept of a Vital Signs Control System for in Vivo Measurements of Adult Zebrafish for a PET Prototype
11:15	Coffee Break	

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Session 7 - Track B		
Image Processing 1		
Time	Chair: Dr. Marian Himstedt	
11:30	22	<i>F. Brokmann</i>
		Time-of-Flight Cameras for Medical Applications: A brief Review
11:42	21	<i>F. Katlun, S. Häger, A. Lange, J. H. Moltz</i>
		Deep Regression as Initialization for 2D-3D Pelvis Registration
11:54	19	<i>P. Severin, F. Kreis, N. Linz</i>
		Investigation of different contrast agents for magnetic resonance imaging with respect to their relaxivity at low magnetic field strengths
12:06	65	<i>S. Wuthe, M. Momeni, M. Bitten Mølmer, E. Löbner Svendsen, M. Brabrand, P. Biesenbach, D. Teichmann</i>
		Heart rate estimation using Imaging Photoplethysmography
12:18	91	<i>T. Zarnekow, M. Schlüter</i>
		Stitching Planner
12:30	Lunch Break	
Session 8 - Track B		
Image Processing 2		
Time	Chair: Prof. Dr. Heinz Handels	
13:30	110	<i>H. Eilers, M. Frischke</i>
		Methods for specular reflection reduction in eye images
13:42	57	<i>I. Müller, H. Hellbrück</i>
		Evaluation of an real-time object detector for traffic analysis
13:54	46	<i>O. Köken</i>
		Automatic Detection of Changed Depth Camera Pose for Indoor Applications
14:06	32	<i>P. Lüdemann, G. Kolb</i>
		An approach to create 3D-models with voxel carving for a 3D scanning setup
14:18	77	<i>P. T. Gangavarapu, N. T. Nguyen</i>
		Mapping and Navigation in agricultural fields using polytopes
14:30	Coffee Break	
14:45	Award Presentation and Farewell	