

Scientific Program
Wednesday March 10, 2021

Track A

Track B

9:00	Welcome (Auditorium)	
9:15	Philips Spotlight Presentation (Auditorium)	
9:30	Scientific Session 1 (Session Hall)	
	Medical Imaging 1 Chair: Dr. Svenja Ipsen	Biomedical Engineering 1 Chair: Prof. Stephan Klein
9:30	15 <i>Felix Müller, Richard Neffin, Marc Krug, Heinz Handels</i> Dynamic Positioning of an OCT-Scanbeam using 3D Object-Tracking in Stereo Microscope Images	39 <i>Birger Köhne, Hendrik Fischer, Tim Schrills</i> Development of a User Interface for a Miniaturized and Automated Anaesthesia Device
9:42	59 <i>Danil Zamnius, Mattias Heinrich, Steffen Lukas, Hanna Siebert</i> Intertemporal Slice-to-Volume matching in Cardiac CT Perfusion Imaging	58 <i>Elena-Thérèse Egerer, Janosch Kappel, Christian Hübner</i> Evaluation of a Stopped-Flow Apparatus for Rapid Mixing of Small Fluid Volumes in Reaction Kinetic Studies
9:54	29 <i>Timir Barua, Felix von Haxthausen, Verónica García-Vázquez</i> Ultrasound Medical Imaging: Comparison of Methods for Adjusting Speed of Sound of Human Tissue in Water	37 <i>David Pysik, Judith Müller, Marian Taube, Georg Schildbach</i> Development of a Safety Mechanism for the Patient Compartment Hood of an MR-Compatible Incubator
10:06	74 <i>Zhibin Xin, Mattias Heinrich, for the Alzheimer's Disease Neuroimaging Initiative</i> Deep learning-based image registration for voxel-based morphometry	57 <i>Kerrin Tessars, Georg Maennel, Jan Graßhoff</i> Gaussian Process Optimized Model Predictive Control of Ventilation Pressure for Spontaneously Breathing Patients
10:18	19 <i>Ana V. Estrada Lugo, Felix von Haxthausen, Niclas Bockelmann, Floris Ernst</i> Automatic Segmentation of the Femoral Artery from 2D Ultrasound Images	20 <i>Cole Saunders, Georg Männel</i> Continuous delivery to integrate a flow sensor
10:30	43 <i>Julius J. Friedemann Werner, Nadja Kohlhase, Andreas Bolke, Magdalena Rafecas</i> Neural networks for Compton camera imaging: Estimating initial and transferred energies of prompt gamma radiation	61 <i>Noah Radtke</i> Designing a Disposable and Magnetically Suspended Centrifugal Pump
10:45	B. Braun Avitum Spotlight Presentation (Session Hall)	
11:00	Coffee Break and 4-Eyes Appointments (Exhibition)	
11:15	Student Circuit 1 (Exhibition, Groups A, B, C)	
11:30	Student Circuit 2 (Exhibition, Groups B, C, D)	
11:45	Postersession 1 (Poster Area) and 4-Eyes Appointments (Exhibition)	

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Track B

12:30	Lunch Break and 4-Eyes Appointments (Exhibition)	
13:15	Student Circuit 3 (Exhibition, Group C)	
13:30	Scientific Session 2 (Session Hall)	
	Medical Imaging 2 Chair: Dr. Maik Stille	Biophysics Chair: Prof. Christian Hübner
13:30	62 <i>Finja A. Ottink, Gregor Koehler, Mattias P. Heinrich</i> Towards Effective Contrastive Pretraining for Medical Image Segmentation	26 <i>Tuomas Mikael Lindeman</i> Development of a more sensitive and more reliable LC-QqQ MS method for detecting endocannabinoids and related structures
13:42	86 <i>Chenzhang Li, Mattias Heinrich</i> FlowNet application for 3D image registration	71 <i>Manikwadura Dilini Tharindika</i> Detection of Helminths eggs in stool samples using Hyperspectral Imaging
13:54	1 <i>Tilman Wegener, Jessie Fanglu Fu, Ivan Klyuzhin, Martin McKeown, A. Jon Stoessl, Vesna Sossi</i> Dynamic Mode Decomposition applied to Positron Emission Tomography Data - Investigation of Dopamine Processing in Parkinson's Disease	14 <i>Faryal Soomro, Christina Zechel</i> Immunological Analyses of Tumor Samples and Cultured Tumor Stem cells with the Aim of Approaching the Role of the Blood-Brain Barrier in Pathologic Microenvironments
14:06	51 <i>Pia-Sophie Lampert, Frederik Kaiser, Maik Stille</i> Adding DICOM Support for an Industrial X-Ray Inspection Software	60 <i>Priscillia Y. Masalle, Thomas Gutschmann, Christian Nehls</i> Investigation of surface-active therapeutics on lipid monolayers
14:18	69 <i>Tobias Klemme, Alexander Neumann</i> Studying the response of magnetic particles to rectangular excitation fields in the context of Magnetic Particle Imaging	55 <i>Catrin Przibylla, Francois Cossais</i> Characterisation of the interaction between mast cells, α -synuclein and the enteric nervous system in Parkinson's disease
14:30	63 <i>Ricardo Stolze, Ralf Hauffe, Jacob Kanev, Frédéric Li</i> Implementation of a medical Android application for measuring EEG data and storing them onto a remote server	83 <i>Finja Rike Klare, Niclas Ludolph, Hauke Paulsen</i> On the theoretical determination of protein volumes using solvent accessible surface areas and crystallographic data
14:45	Digital Solutions / Infinite Science Spotlight Presentation (Session Hall)	
15:00	Coffee Break and 4-Eyes Appointments (Exhibition)	
15:15	Student Circuit 4 (Exhibition, Groups A, D)	
15:30	Postersession 2 (Poster Area) and 4-Eyes Appointments (Exhibition)	
16:15	End	