



Postersessions 5th of March, 2025

Postersession 1

1926	<i>Noah-Art Leinweber, Fabian Domberg, Philipp Jan Labod</i> Development and Optimization of a Lightweight Drone Prototype with Real-Time Kinematic (RTK) Technology
1937	<i>Cassandra Krause, Goran Stanic, Kristina Giske, Mattias Heinrich</i> Evaluation of Full-Reference Image Quality Assessment Metrics for Artifact Sensitivity in Lung CT Images for Radiotherapy
1970	<i>Mona Irsfeld, Hristina Uzunova, Heinz Handels</i> MRI Synthesis for Brain Tumor Segmentation Using Conditional Diffusion Models
1971	<i>Niklas Ohlenroth, Frank Herold, Katharina Bliedtner, Maik Stille</i> Feasibility Study of Fatigue Testing in 3D-Printed PLA Specimens
1955	<i>Zakaria Narjis, Erhardt Barth</i> RL-Tone: A reinforcement learning approach for global tonal adjustment in photography
2013	<i>Lukas Schmahl, Mattias P. Heinrich, Malte Maria Sieren, Lennart Berkel</i> Privacy Risks in the Anonymization of Medical Image Data
1993	<i>Rafael Hooock, Nele Sophie Brügge, Heinz Handels</i> Disentanglement Learning of Facial Expression and Appearance
2029	<i>Lennart Meyling, Christoph Großbröhmer, Jürgen Lichtenstein, Mattias Heinrich, Lasse Hansen</i> Real-Time Ultrasound Guidance for Radial Head Localization
1952	<i>Bennet Kahrs, Julia Andresen, Timo Kepp, Heinz Handels</i> Anomaly-guided image segmentation on retinal OCT images
2040	<i>Lugh Martensen, Christoph Willibald</i> Projector-Based Augmented Reality Interface for Intuitive Robot Programming
1928	<i>Elena Reznikova, Nils Zander, Andreas Heede, Robert Wendlandt</i> Distal Fibula Fracture Treatment with Intramedullary Implant: Concept Assessment and Initial Verification
1931	<i>Swantje Richter, Robert Wendlandt</i> Determination of the yield strength through bending tests and finite element analysis
2023	<i>Chitrang Narendrabhai Patel, Tolga-Can Çallar</i> Development of a kinematic structure for ultrasound guided cannula placement
2024	<i>Mit Patel, Tolga-Can Çallar</i> Development of a Remote Center of Motion Manipulator Attachment for Robotic Ultrasound Imaging
2045	<i>Laura Groenewold, Jan Wellmann, Insa Wolf</i> Investigation of a movement platform for the simulation of head movements for the evaluation of EEG systems
2046	<i>Muhammad Ahmed Raza Kamal, Christopher Kranz, Max Urban</i> Evaluation of opportunities to integrate an electric track vehicle logistics solution into a lab and pharmacy
2047	<i>Omolbanin Hosseini, Mazdak Keshavarzi, Zeynep Merve Oguz, Ollisaemeka Nwogbo, Jörg Schroeter, Max Urban</i> Design and implementation of an analog circuit for a 20 MHz pulsed NMR system for point-of-care applications



- 2050 *Jay Shah, Mladen Berekovic, Henrik Jahnke*
Design and Integration of a Calibration Circuit for Laser Beam Alignment in LPBF for Selective Laser Melting Systems
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- 1924 *Ravichandran Monisha, Roedel Nils, Müller Stefan*
Characterization of squeegee process in the production of optochemical pO₂ and pCO₂ sensors for blood analysis
-
- 1976 *Leon Teege, Timo Matthews*
Development of an automated test stand for compliance measurement in ventilation accessories
-
- 1979 *Irin Pappachan, Pascal Stagge, Ankit Malhotra, Stefan Müller*
Electrical Characterization and Statistical Analysis of 3D-Printed Coils for Magnetic Particle Spectroscopy
-
- 1988 *Nadja Rothberg, Christian Brendle, Ulf Pilz*
Literature review on lung characteristics of ventilated patients
-
- 1992 *Pia Berger, Jens Lembke*
Optimization of the joint connection on the adjustable pressure limiting valve
-
- 2001 *Mazdak Keshavarzi, Omolbanin Hosseini, Olisaemeka Nwogbo, Zeynep Merve Oguz, Jörg Schroeter, Max Urban*
Design and Simulation of the Analogue Circuitry of a 20 MHz Pulsed NMR System for Point-of-Care Applications
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- 2009 *Ronja Wrage, Stefan Müller*
Testing System for Sleep apnea Masks
-
- 2014 *Ana Martinez Lenero, Esther Olubukola Akinola, Shu Zhang, Lisa Marshall*
Closed-loop acoustic stimulation paradigm in mice
-
- 2015 *Tisna Thomas, Roman Leonov, Hannes Schwenke, Thomas Friedrich, Stefan Müller*
Novel Approaches to Silicone Vascular Model Production: An Emphasis on Carotid Arteries, and Aorta
-
- 2021 *Sophia Weigl, Maximilian Besold, Stefan Schätzl, Max Urban*
Biomechanical Simulation of the Human Thorax Behaviour during Cardiopulmonary Resuscitation