



Postersessions 6th of March, 2025

Postersession 4

2027	<i>Robert Wiedenbeck, Florian Denk, Hendrik Husstedt</i> Using hearing threshold-simulating noise to explore differences in speech intelligibility and listening effort between noise and quiet
2030	<i>Tizian V. N. Adinolfi, Maja Serman, Ulrich Giese, Jürgen Tchorz</i> The influence of acoustic and social factors on the loudness perception of the own voice with hearing aids – A normal hearing study –
1929	<i>Tobias Fischer, Chiara Peine, Carlos Castelar</i> Laser Self-Mixing Interferometry for Gas-Flowmetry
1944	<i>Nils Lange, Maxim Fenko, Constantin Wiesener, Daniel Laidig, Benjamin Riebold, Philipp Rostalski, Thomas Schauer</i> Combination of motion data and electromyography for threshold-based swallow onset detection
1945	<i>Hannes Wieprecht, Ludger Tappehorn</i> Optimizing Respiratory Gas Humidification: A Study on Mesh Nebulizer Integration with Active Humidifiers
1948	<i>Thorge Björn Grahl, Claas-Christian Seelhoff</i> Evaluating the Impact of Nebulizer Placement, Humidity and Flow on Particle Size and Distribution in Mechanical Ventilation
1959	<i>Vanessa Klauenberg, Axel Künstner, Hauke Busch</i> Implementation of an Algorithm for Predicting the MMR status of a Patient Based on Next-Generation Sequencing
1939	<i>Maik Pfaff</i> Micromechanical shifting device for nonlinear crystals in compact UV lasers
1949	<i>Tikhon Riazantsev, Hans-Jürgen Grein</i> Development of embedded software for Accessible Ophthalmic Perimeter
1981	<i>Sophie Eggert, Dongyue Wu, Philipp Matten, Ralf Brinkmann</i> Characterization of thermal infrared sensing in a free-space optical system
2026	<i>Janica von Dietman, Giuseppe de Vito, Lapo Turrini, Young-Hwa Song, Francesco S. Pavone</i> Recalibrating the electrically tunable lens to enhance the performance of a two-photon light-sheet microscope
1996	<i>Vanessa Engelhardt, Maron Dolling, Gereon Hüttmann</i> Numerical dispersion correction on spectral domain optical coherence tomography
1930	<i>Dominik Philipp</i> Increasing safety for a counterbalance truck – Adaptation of a crossmember for improved visibility and investigation of manufacturing capabilities
1942	<i>Fiona Christin Wormsdorff, Maik Rahlves, Felix Bartelds</i> Measurement system analysis of the Keyence IM8000
1964	<i>Smit Khandelwal</i> Automated Testing of an Implantable Active Medical Device (IAMD)
2037	<i>Mena Al Omaeri, Kathrin Schubert, Marc Oliver Opresnik</i> Analysis of weaknesses and optimization opportunities in document management according to EN ISO 13485



- 2048 *Rafal Kaczor*
From Idea to Approval: The Development, Verification, and Approval Processes of a Medical Device
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- 1994 *Isticahayanittamiarzahraa, Raika Rauterberg, Johannes Kollien, Max Urban*
Implementation and Evaluation of a Prototypical Service for the Processing and Provision of Clinical Trend Data in a Distributed System
-
- 1934 *Alissa Kovalenko*
Signal Analysis of EEG-Data Using Artifact Subspace Reconstruction and Power Spectral Density
-
- 1936 *Annemarie Uhlig, Charlotte Brandebusemeyer, Fabian Stolp, Hawzhin Hozhabr Pour, Bert Arnrich*
Examining Software Developers' Cognitive Load During Daily Activities with Wearables
-
- 2042 *Sarah Landwehrs, Ralf Bruder*
Embedded software design for a real-time electromagnetic 6 DoF tracking system
-
- 2020 *Michel Christiansen, Annika Crüger, Marco Maass, Philipp Koch, Friederike Wortmann, Marcin Grzegorzek*
Parameter Evaluation of Sepsis Classification in Neutropenic Patients
-
- 1958 *Lukas Freiling, Martin Krimm, Matthias Haase*
Real-Time Line Segmentation for Mobile Robots in 2D Point Clouds
-
- 1984 *Mokrane Ouarezki, Nils Rottmann, Ngoc Thinh Nguyen*
Customizing Cartographer for Landmark-Based Mapping in Autonomous Cleaning Robots
-
- 2010 *Kilian Schweppe, Satya Prakash Nayak, Arabinda Ghosh, Atef Tej, Anne-Kathrin Schmuck*
Integrating Physical and Logical Feedback Control on a Differential Drive Robot
-
- 1956 *Alina Köster, Stefan Bolus, Georg Schildbach*
Trends, Markets and Development of Robotics in the Oil and Gas Industry
-
- 1968 *Tim Stichnoth, Dennis Kundrat, Daniel Reichard*
Path Planning for Medical Robots – Approaches and Experimental Evaluation