Poster - BMS24/AUTOMED24 *(Room E1.04)*

1	**N. Huhs*, N. Kalashtari, C. Hornberger, J. Kraitl, and O. Simanski** *"Application of LiDAR and neuromorphic vision in ambient assisted living environments"*
2	**N. Licini*, B. Sonzogni, P. Abuin, F. Previdi, A.H. Gonzalez, and A. Ferramosca** *"Artificial Pancreas under stable MPC: including the Physical Activity effect"*
3	**M. Wiartalla*, C. Lübke, S. Leonhardt, M. Walter, R. Kopp, S. Kowalewski, and A. Stollenwerk** *"A survey on requirements for safety and control concepts of artificial implantable lungs"*
4	**A. F. Frigge* and A. Medvedev** *"Targeting fiber tracts in deep brain stimulation: optimal contact configurations"*
5	**M. Kargeti*** *"Metabolic State of Bacterial Cells: Deciphered through a Simple Mathematical Model"*
6	**C. Ramírez-Mazo*, L. Gómez-Echavarría, L- Lema-Pérez, and S. Röblitz** *A semi-mechanistic mathematical model on the interactions between the ovulatory-menstrual cycle and the metabolic and cardiovascular system*
7	**M. Schiavo, T. Mendonça*, and A. Visioli** *"On the individualized PIDA tuning for the automatic control of neuromuscular blockade"*
8	**M. Ragni, P. A. Mongini, L. Magni, and C. Toffanin*** *"Multiple Model Predictor for Type 1 Diabetes"*
9	**R. Schmid*, E. F. Picka, H. Arabian, K. Moeller, and V. Wagner-Hartl** *"Evaluation of Emotional Everyday Scenarios for the Development of a Digital Health Application"*
10	**N. M. Shiroma*, L. F. Alves Ferreira, J. R. Pecora, A. L. Campos Mariani, and M. Tsuzuki** *"Development of Assistive Technology Using Gametherapy for Congenital Clubfoot Treatment"*
11	**T. Jochim*, A. Żurawski, N. Stecher, A. Heinke, and H. Malberg** *"Differentiating between structural and functional spinal deformities in children and adolescents using machine learning"*
12	**O. Karadimas*, P. Karvelis, and C. D. Stylios** *"Vector Representation of Biological Data Using Machine Learning"*
13	**S. Chakraborty*, R. Swaminathan, and S. IITM** *"An Explainable Machine Learning Model for Differentiation of Glioma Sub-types using MR Image Texture Analysis of Cerebral Edema"*
14	**N. Stecher*, A. Heinke, A. Ł. Żurawski, L. Richter, M. R. Harder, and H. Malberg** *"Scoliosis assessment from trunk rotation based on torsobarography using machine learning"*
15	**A. Tschirschky*, T. Jochim, A. Heinke, A. Żurawski, and H. Malberg** *"Comparing gait parameters for right-convex scoliosis patients with and without brace"*
16	**J. Dohndorf*, N. Stecher, A. Heinke, and H. Malberg** *"Experimental determination of the transmission behavior of a pressure sensor array for torsobarography in posture analysis"*
17	**J. Sewell*, C. Zhou, and J. G. Chase** *"Identifiable Model Derivation and Verification for a 2D Knee Joint Analysis"*

18	**S. Sundar* and R. Swaminathan** *"Estimation of Muscle Fatigue Progression based on Modified Lempel Ziv Complexity"*
19	**L. Burger*, S. Ulrich, and H. Mozaffari-Jovein** *"Development of osseointegrative implants with drug delivery function for medical technology"*
20	**S. Pilehvar*, R. Heidari, and H. Mozaffari-Jovein** *"Influence of the hybrid process on the vertical bond strength of 3D-printed PEEK implants"*
21	**L. Gottschalk*, S. Müller, and V. Bucher** *"Analysis of wireless data transfer methods for subcutaneous medical implants"*
22	**D. Obergfell*, R. Bösinger, and B. Azarhoushang** *"Creating antireflective surfaces through ultrashort pulsed laser microstructuring"*
23	**B. Qeshta* and H.P. Deigner** *"Synthesis and Characterization Formation of Disulfide Cross-Linked and Thiazolidine Ring Hyaluronic Acid Hydrogels"*
24	**V. Pfannschmidt*, M. Buglowski, M. Grüne, F. Hammer, O. Braun, M. Hütten, S. Kowalewski, M. Schoberer, and A. Stollenwerk** *"An interconnected modular setup for in-vivo evaluation of automated mechanical ventilation"*
25	**A. Döcke*, S. Mogdans, S. Kromnik, and H. Malberg** *"In vitro test setup for continuous evaluation of oxygenators for extracorporeal circulation"*
26	**S. Fonck*, S. Fritsch, S. Kowalewski, and A. Stollenwerk** *"Modular ML-Framework to develop and compare AI models for ARDS classification"*
27	**J. Hofman*, J. Bamboschek, N. Fix, and K. Möller** *"Implementation of adapted volume distribution in the basic dynamic Hickling Model"*
28	**C. Ionescu*, R. M.C. De Keyser, E. Yumuk, D. Copot, and M. Neckebroek** *"An Adaptive Control Structure to Mitigate Lack of Feasibility in Systems with Poor Identifiability. Case Study on General Anesthesia"*
29	**J. A.Clifton*, E. F. S. Guy, R. Chen, T. Caljé-van der Klei, L. Holder-Pearson, K. Moeller, and J. G. Chase** *"Aeration with Increasing PEEP in Smokers, Vapers, and Asthmatics"*
30	**R. Chen*, A. Lovas, S. Krueger-Ziolek, P. Bakos, and K. Moeller** *"Monitoring spontaneous breathing during apnea testing with electrical impedance tomography"*
31	**E. Petrovs, A. Okss, and A. Katashev*** *"Effect of moisture on human tissue impedance measurement using textile electrodes"*
32	**A. Battistel*, J. Wilkie, R. Chen, and K. Möller** *"A multifrequency image reconstruction for electrical impedance tomography to retain tissue spectral information"*
33	**A. Battistel*, A.C. Özen, J. Wilkie, R. Chen, D. von Elverfeldt, and K. Möller** *"Enhance electrical impedance tomography with magnetic readings"*
34	**N. Fix* & H. Helin, T. Billoud, D. von Elverfeldt, F. Goldschmidtboeing, M. Weigt and M. Pichotka** *"Photon-counting super-sampled imaging using piezoelectric motors"*
35	**P. Jadhav* and R. Swaminathan** *"A Nomogram Based Risk Classification System for Comorbid Conditions Using Multiple Fluid Biomarkers"*