

Time	Block 1	Block 2	R e g i s t r a t i o n
08:00	Keynote 4		
08:30	<i>Diabetes 1</i>	<i>Decision Support and Feedback Control</i>	
	ID 23: "Reducing exercise- related hypoglycemia in automated insulin delivery with reinforcement learning"; Dana Zimmermann, Hans-Michael Kaltenbach*	ID 31: "Model Predictive Controller-Based Levothyroxine Dosing Strategy for Patients Suffering from Hashimoto's Thyroiditis"; Ravi Sharma*, Simon Lucas Goede, Verena Theiler-Schwetz, Markus Reichhartinger	
	ID 41: "Advancing Personalized Diabetes Management: Enabling Research- Driven Closed-Loop Control with AndroidAPS "; Szász László, Simon Barbara, Lehel Dénes- Fazakas, Laszlo Szilagy, Levente Kovacs, György Eigner*	ID 58: "Closed-Loop Control of Arterial CO2 for Neonatal Mechanical Ventilation: In-Vivo Interaction with Spontaneous Breathing"; Valerie Pfannschmidt*, Mateusz Buglowski, Matthias Hütten, Stefan Kowalewski, Mark Schoberer, Andre Stollenwerk	
	ID 53: "Attention Networks for Personalized Mealtime Insulin Dosing in People with Type 1 Diabetes"; Anas El Fathi*, Elliott Pryor, Marc D Breton	ID 68: "Minimizing Epistemic Uncertainty for Predictive Control of General Anesthesia"; Clara Ionescu*, Robin M.C. De Keyser, Dana Copot, ERHAN YUMUK, Isabela Roxana Birs, Erwin Hegedus, Cristina Ioana Muresan, Martine Neckebroek	
	ID 56: "Safe and Effective Glycaemic Control for Minimal Workload in Critically Ill Patients: Virtual trials analysis on performance and safety"; Marie Seret, Vincent Uyttendaele*, Thomas Desaive, J. Geoffrey Chase	ID 92: "Interfacing with Prototype Instrumented Smart Screwdriver for Bone Screw Torque Regulation"; Jack Abraham Wilkie*, Georg Rauter, Knut Moeller	
	ID 62: "Insulin on Board safety constraint effect in a CHoKI- based MPC for Artificial Pancreas"; Beatrice Sonzogni*, Jose Maria Manzano, Fabio Previdi, Antonio Ferramosca	ID 94: "Cognitive Stress Detection during Physical Activity using Simultaneous, Mobile EEG and ECG signals"; Maria sara nour Sadoun, Vargas Juan Manuel, Boulares Mouad, Arnaud Boutin, François Cottin, Taous-Meriem Laleg*	
	ID 114: "Analysis on the Practical Identifiability of the Subcutaneous Oral Glucose Minimal Model"; Maria Villa-Tamayo, Jacopo Pavan, Marc D Breton*		
10:00	Coffee Break		

Time	Block 1	Block 2	Registration
10:30	Diabetes 2	Rehabilitation	
	<p>ID 60: "A Review on the Use of Adjunctive Therapies in Artificial Pancreas Systems"; Clara Furió Novejarque, José Luis Díez, Jorge Bondia Company*</p>	<p>ID 18: "Predictive Framework for Electrical Stimulation Cycling in Spinal Cord Injury"; Ana Carolina Cardoso de Sousa*, Josep Maria Font-Llagunes</p>	
	<p>ID 64: "Design of High Sensitivity Split Ring Resonator Sensor for Invasive Blood Glucose Monitoring "; Ameer Alsultani, Omer Alkhafaf, Ákos Szlávecz, J. Geoffrey Chase, Balazs Benyo*</p>	<p>ID 32: "A Mechanomyography- Based System for Application and Tuning of Transcutaneous Spinal Cord Stimulation"; Lotta Spieker*, Ardit Dvorani, Christina Salchow-Hömmen, Constantin Wiesener, Hanno Voigt, Nikolaus Wenger, Thomas Schauer</p>	
	<p>ID 70: "A Modular Open- Source Framework for In-Browser Diabetes Simulation"; Heiko Peuscher*, Tim Schrills, Manuel Eichenlaub, John Bagterp Jorgensen</p>	<p>ID 45: "Feasibility of IMU- Based Leg Movement Detection in Infants"; Vivian Waldheim*, Katharina Lorenz, Christina Mittag, Natalie Jankowski</p>	
	<p>ID 86: "Online Estimation of Insulin Sensitivity in Diabetes Type 1 Patients during Menstrual Cycles using Extended Kalman Filtering"; Jörg Kunkelmoor*, Ann- Kathrin Klinger, Paolo Mercorelli, Benedikt Haus</p>	<p>ID 57: "FES- and Camera Sensor- Based Estimation of Knee and Ankle Stiffness"; Chenglin Lyu*, Marlon Nievenheim, L. Cornelius Bollheimer, Steffen Leonhardt, Philip von Platen</p>	
	<p>ID 99: "Meal-Related Glycemic Trend Information to Assist Bolus Decision- Making in People with Type 1 Diabetes "; Carlos Builes-Montaño*, Laura Lema-Perez, Hernan Alvarez, José Fernando García-Tirado</p>	<p>ID 63: "Epilepsy seizure detection based on EEG QuPWM features and Logistic Regression"; Maria de los ´ Angeles Gomez Castillo, Taous-Meriem Laleg*</p>	
		<p>ID 115: "Estimation of Muscle Fatigue Progression based on Modified Lempel Ziv Complexity"; Sowmya Sundar*, RAMAKRISHNAN SWAMINATHAN</p>	
12:00	Lunch		

Time	Block 1	Block 2	R e g i s t r a t i o n
13:00	Keynote 5		
13:30	<i>Artificial Intelligence</i>	<i>Challenges for Medical Technology Industry</i>	
	ID 36: "Investigating the Usability of XAI in AI- Based Image Classification"; Jan Stodt*, Christoph Reich, Nathan Clarke	ID 97: "MiniLiVE: miniaturized light- and video-unit for a wireless and networkable medical video endoscope"; Horim Bae*, Mike Fornefett	
	ID 49: "In-Silico Validation of Insulin Sensitivity Prediction by Neural Network-based Quantile Regression"; Omer Alkhafaf, Ameer Alsultani, Alaa Nemet Roel, Bálint Szabó, Petra Pintér, Ákos Szlávecz*, Béla Paláncz, Katalin Kovács, J. Geoffrey Chase, Balazs Benyo	ID 98: "Safe Multi-patient Ventilator use: Custom Control with the Novel ACTIV System."; Lui Holder-Pearson*, J. Geoffrey Chase, Geoffrey M Shaw	
	ID 65: "Cardiovascular Model Identification Using Neural ODE"; Bálint Szabó, Ákos Antal, Ákos Szlávecz*, Béla Paláncz, Katalin Kovács, Liam Murphy, James Cushway, Nicolas Davey, Cong Zhou, J. Geoffrey Chase, Balazs Benyo	ID 106: "Assessing Accuracy of Wrist-Worn Wearable Device Over Changing Levels of Activity"; Isaac Flett*, Yunpeng Su, Christopher Cameron, Cong Zhou, Lui Holder- Pearson, J. Geoffrey Chase	
	ID 67: "Multi-dimensional Quantile Regression Using Polynomial Function Fitting for Insulin Sensitivity Forecasting "; Bálint Szabó, Petra Pintér, Ákos Antal, Ákos Szlávecz, J. Geoffrey Chase, Balazs Benyo*	ID 110: "Generation of Design Inputs for Diabetes Technology using Co-Design Methodology"; Samuel Hastings*, Lucy Jessep, Jake Campbell, Jennifer HK Wong, Lui Holder-Pearson, J. Geoffrey Chase	
	ID 80: "Laparoscopic Tool Classification in Gynaecological Images Using Convolutional Neural Network and Attention Modules"; Tamer Abdulbaki Alshirbaji*, Nour Aldeen Jalal, Herag Arabian, Paul D Docherty, Hisham ElMoaqet, Thomas Neumuth, Knut Moeller	ID 122: "Integrating Handwritten Data Entry and Real-Time Data Streaming for Enhanced Medical Device Signal Monitoring and Visualization in Digitalized ICU Charts"; Yunpeng Su*, Jordan F. Hill, Ella F. S. Guy, Jaimey A. Clifton, Isaac Flett, Cong Zhou, Lui Holder- Pearson, J. Geoffrey Chase	
	ID 95: "Tool Classification in Laparoscopic Images Using Feature Fusion Convolutional Neural Networks: A Single Label Classification Approach"; Hisham ElMoaqet*, Hamzeh Qaddoura, Tala Almasri, Tamer Abdulbaki Alshirbaji, Nour Aldeen Jalal, Knut Moeller		
15:00	Coffee Break		

Time	Block 1	Block 2	R e g i s t r a t i o n
15:30	Keynote 6		
16:00	<i>Technology for Mental Health</i>	<i>Pharmacokinetics and Drug Delivery</i>	
	ID 13: "Image Pre- Processing Effects on Attention Modules in Facial Emotion Recognition"; Herag Arabian*, Verena Wagner-Hartl, Knut Moeller	ID 21: "Experimental Results of an Optimized PID Controller for General Anesthesia with Adjustable Opioid-Hypnotic Balance"; Michele Schiavo*, NICOLA LATRONICO, Massimiliano Paltenghi, Antonio Visioli	
	ID 37: "Decoding Emotions: How Temporal Modelling Enhances Recognition Accuracy"; Sreerag Chandrasekharan*, Herag Arabian, Knut Moeller	ID 22: "Symbolic Neural Networks for Automated Covariate Modeling in a Mixed-Effects Framework"; Jesper Sundell, Ylva Wahlquist*, Kristian Soltesz	
	ID 51: "Digital Applications for Mental Health: Use of a user- centered Design Process to develop an mHealth App for Aftercare of Eating Disorder Patients"; Céline Vinçon, Verena Wagner-Hartl*	ID 47: "Analysis of the Performance Achievable with a PIDD ^{2alpha} Controller for Depth of Hypnosis in Total Intravenous Anesthesia"; Marco Milanese*, Nicola Paolino, Michele Schiavo, Fabrizio Padula, Antonio Visioli	
	ID 79: "Applications for Mental Health: Evaluation of different avatars"; Verena Wagner-Hartl*, Philipp Hartz, Katharina Gleichauf, Ramona Schmid, Herag Arabian, Martin Zimmermann, Knut Moeller, Marcel Igel	ID 59: "Identification of PK- PD Insulin Models using Experimental GIR Data"; Kirstine Sylvest Freil, Liv Olivia Fritzen, Dimitri Boiroux, Tinna Björk Aradóttir, John Bagterp Jorgensen*	
	ID 103: "Measuring stress using wearable devices"; Isaac Flett*, Yunpeng Su, Wade Bennett, Harris Oon, Louis van Zyl, Josephine Dixon, Hamish A Ferguson, Tony Zhou, Cong Zhou, Lui Holder- Pearson, J. Geoffrey Chase	ID 78: "Personalized therapy using drug delivery devices "; Dániel András Drexler, Borbála Gergics, Melánia Puskás*, Tamas Haidegger, Levente Kovacs	
	ID 111: "Experimental Assessment of Facial Emotion Recognition Model Accuracy and Potential Using the Oulu-CASIA Database"; Summerhays-Sunnex Dael*, Lui Holder- Pearson, Knut Moeller, J. Geoffrey Chase	ID 87: "A Minimum Time-To- Target MPC Approach for Depth of Hypnosis in Total Intravenous Anesthesia"; Marco Milanese, Luca Consolini, Giulia Di Credico, Mattia Laurini, Michele Schiavo, Antonio Visioli*	
17:30	Break		
18:30	Conference Get-Together / Dinner		