

Time	Block 1 (E0.02)	Block 2 (E0.04)	R e g i s t r a t i o n
08:00	Poster Setup (E1.04)		
09:00	Opening (E0.02)		
09:30	Keynote 1 (E0.02)		
10:00	Coffee Break (E1.05)		
10:30	Women's Health	Biomedical System Modelling	
	ID 24: "Socio-Economic Benefit Analysis of Breast Cancer Screening Program Changes in New Zealand"; Jessica Louise Fitzjohn*, J. Geoffrey Chase, Cong Zhou	ID 6: "A Model-Based Control Algorithm For Lung and Diaphragm Protective Ventilation"; Kaelan Lindup, Fabrizio Padula*, Michele Bertoni, NICOLA LATRONICO, Antonio Visioli	
	ID 26: "International Results for Breast Cancer Screening System Survey"; Samantha Couper*, Leah Landry, Jessica Louise Fitzjohn, Cong Zhou, J. Geoffrey Chase	ID 44: "Towards a digital twin based monitoring tool for ventilated patients"; Carlotta Hennigs*, Julia Sauer, Alexander Bigalke, Tim Hardel, Niklas M. Carbon, Philipp Rostalski	
	ID 27: "Ergonomic Trial Results for Digital Imaging Elasto Tomography (DIET) Breast Cancer Screening"; Samantha Couper*, Jessica Sewell, Esther Blain, Bruin Dorler, Jessica Louise Fitzjohn, Cong Zhou, Yunpeng Su, J. Geoffrey Chase	ID 75: "Unified mathematical model structure for in silico simulations"; Franziska Bilda*, Carlotta Hennigs, Elisa Teifke, Benjamin Gebel, Philipp Rostalski	
	ID 54: "Extracting Features and Sentiment from Text Posts and Comments Relating to Polycystic Ovary Syndrome"; Rebecca Helene Kehela Emanuel*, Paul D Docherty, Helen Lunt, Rebecca Campbell, Knut Moeller	ID 77: "Estimating Cardiac Mechanical Efficiency in a Porcine Ex Situ"; Henry Pigot*, Stig Steen, Kristian Soltesz	
	ID 116: "A switched system for modeling the interaction of pleasure and pain in vaginal dilation exercises"; Roxanne Jackson*, Damiano Varagnolo, Marieke Dewitte, Steffi Knorn	ID 81: "Modeling and Control of an Automated Hemolysis Test Bench"; Patrick Borchers*, Steffen Leonhardt, Marian Walter	
	ID 29: "Understanding and Addressing ACL Tears in Female Athletes: A Comprehensive Analysis"; Jessica Sewell*, Cong Zhou, J. Geoffrey Chase	ID 93: "Brittleness Characterisation of Rigid Polyurethane Foam Artificial Bone for Biomechanical Testing"; Jack Abraham Wilkie*, Paul D Docherty, Georg Rauter, Knut Moeller	
12:00	Lunch (Mensa)	AUTOMED Meeting (E2.01)	

Time	Block 1 (E0.02)	Block 2 (E0.04)	R e g i s t r a t i o n
13:00	Keynote 2 (E0.02)		
13:30	Mechanical Ventilation 1	Advances in Signal Processing	
	ID 4: "In-Parallel CoVentilation a Preliminary Experimental Study"; Ee Gee Tee, Wen Peng Ting, Kay Chi Tham, Christopher Yew Shuen Ang, Yeong Shiong Chiew*, J. Geoffrey Chase	ID 38: "Test Bench for Measuring the Effects of Contact Pressure in cECG Measurements"; Jannik Prüßmann*, Steffen Leonhardt, Markus Johannes Lueken	
	ID 11: "Rapid Expiratory Occlusion to Determine Dynamic Lung Elastance and Response to PEEP"; Ella F. S. Guy*, Jaimey A. Clifton, Trudy Caljé-van der Klei, Jennifer L. Knopp, Lui Holder Pearson, J. Geoffrey Chase	ID 46: "Online Removal of Cardiac Artifacts from Respiratory Surface Electromyograms"; Josefine Petrick*, Julia Sauer, Jan Graßhoff, Philipp Rostalski	
	ID 16: "Validation of a Low Cost, High-Quality, Equity-Enhancing, PAP Device"; Jordan F. Hill*, Samuel Jackson, Mia Uluilalata, Sood Samrath, Jaimey A. Clifton, Ella F. S. Guy, J. Geoffrey Chase	ID 61: "Dispelling Four Challenges in Inertial Motion Tracking with One Recurrent Inertial Graph-Based Estimator (RING)"; Simon Bachhuber*, Ive Weygers, Thomas Seel	
	ID 17: "Performance Evaluation of a Mechanical Test Lung Prototype for Lung Mechanics Research"; Wei Yang Tay, Yeong Shiong Chiew*, Christopher Yew Shuen Ang, J. Geoffrey Chase	ID 89: "Evaluating the Explainable AI Method Grad-CAM for Breath Classification on Newborn Time Series Data"; Camelia Oprea*, Mike Grüne, Mateusz Buglowski, Stefan Kowalewski, Mark Schoberer, Andre Stollenwerk	
	ID 14: "Virtual Clinical Trials for Mechanically Ventilated Respiratory Failure Patients under Volume-Controlled Ventilation the Challenges of Volume-Control Protocols"; Christopher Yew Shuen Ang*, Yeong Shiong Chiew, Xin Wang, Ean Hin Ooi, Basri Mat Nor, Cong Zhou, J. Geoffrey Chase	ID 83: "Retrospective Classification of ARDS in ICU Time Series Data Using Random Forest with a Focus on Data Pre-Processing"; Simon Fonck*, Sebastian Johannes Fritsch, Hannes Pieper, Alexander Baron, Stefan Kowalewski, Andre Stollenwerk	
	ID 19: "Comparative Virtual Trials: Pressure Controlled versus Volume-Controlled Stochastic Integrated Model Based Mechanical Ventilation Protocols"; Christopher Yew Shuen Ang*, Yeong Shiong Chiew, Xin Wang, Ean Hin Ooi, Basri Mat Nor, Cong Zhou, J. Geoffrey Chase	ID 84: "A robust and semi automated method for the quantification of recirculation in artificial lung support"; Marc Wiartalla*, Moritz Hüllmann, Michael Lamberti, Cavan Lübke, Rüdger Kopp, Steffen Leonhardt, Marian Walter, Andre Stollenwerk	
15:00	Coffee Break (E1.05)		

Time	Block 1 (E0.02)	Block 2 (E0.04)	R e g i s t r a t i o n
15:30	Keynote 3 (E0.02)		
16:00	Electrical Impedance Tomography (EIT)	Model Formulation	
	ID 48: "Application of Super Resolution-Based Networks to Enhance Images in Electrical Impedance Tomography"; Alexandre Silva Bastos de Almeida, Guilherme C. Duran, Thiago de Castro Martins, Marcos de Sales Guerra Tsuzuki*	ID 25: "Influence of Electrode-Tissue Contact on Necrosis Formation in Soft Coagulation Using a Finite Element Model"; Christoph Busch*, Stefan Rupitsch, Knut Moeller	
	ID 71: "First wireless electrical impedance tomography device from China for ICU and more"; Ling Sang, Zhanqi Zhao*, Yu Lu, Zhimin Lin	ID 35: "Investigation of the Diffusion Characteristics of Natural and Synthetic Wound Antimicrobials in the Blended Hydrogels using Free Volume Theory"; Pooja Vardhini Natesan*, RAMAKRISHNAN SWAMINATHAN	
	ID 74: "Using Redistribution Index to Identify an Outdated Detail Prior in the DCT-Based 3D EIT Algorithm"; Rongqing Chen*, Sabine Krueger-Ziolek, Alberto Battistel, Stefan Rupitsch, Knut Moeller	ID 39: "Denoising by spectral selections of SVD representations of Hankel matricificated data with application to PPG signals"; Fars Samann*, Thomas Schanze	
	ID 76: "Influence of Changes in Functional Residual Capacity on EIT Imaging in Spontaneous Breathing"; Maite García*, Bernhard Laufer, Sabine Krueger-Ziolek, Maite Termenon, Knut Moeller	ID 88: "A Simplified HyperViscoelastic Modelling Approach for Creep response of Urethra Based on Ex-vivo Tissue Data"; Ashish Bhawe*, Jash Vipul Joshi, Vaishnavi Prakash Yache, Stefan Rupitsch, Knut Moeller	
	ID 85: "EIT Complex Admittance Reconstruction through Intervalar Evaluation"; Thiago de Castro Martins*, Marcos de Sales Guerra Tsuzuki	ID 119: "Non-Invasive Patient Breathing Effort Identification: A B-Spline and Mixed Integer Solution"; Kaelan Lindup*	
	ID 101: "Regional Air Distribution in the Lungs during Abdominal and Chest Breathing"; Bernhard Laufer, Sabine Krueger-Ziolek*, Knut Moeller		
17:30	Poster Spotlights / Poster Session (E1.04)		
19:00 - end	Welcome Reception (E1.05)		