IFAC BMS 2024 - Preliminary Program

Friday, 13 September 2024

Time	Block 1	Block 2	
09:00	**Keynote 7**		
09:30	**Coffee Break**		
10:00	***Mechanical Ventilation 2***	***Devices***	**Registration**
	ID 12: "Identification of Airway Resistance in Spontaneous Breathing with and without CPAP"; Ella F. S. Guy*, Jaimey A. Clifton, Trudy Caljé-van der Klei, Jennifer L. Knopp, Lui Holder- Pearson, J. Geoffrey Chase	**ID 43:** "Estimation and Control of Simultaneous Activation of Two Independent Instruments at One Electrosurgical Generator"; Isabel Wange Pinto*, Fabian Janich	
	ID 28: "Mechanical Ventilation Mode Classification: A Dual-Input Convolutional Neural Network Approach with Class Activation Mapping"; Zu Hui Hor, Christopher Yew Shuen Ang*, Yeong Shiong Chiew, Basri Mat Nor, Matthew Edward Cove, J. Geoffrey Chase	**ID 55:** "Material properties characterization for the 4D printing of the hand orthosis utilized for cerebral palsy treatment"; Mohsenbarmouz Mohsen Barmouz*, Iraide Iraide Rodríguez Boo, Armin Armin Siahsarani, Bahman Azarhoushang	
	ID 40: "PEEP Selection: Dynamic Elastance versus An Over- distension Measurement"; Qianhui Sun*, J. Geoffrey Chase, Cong Zhou, Merryn Tawhai, Jennifer L. Knopp, Knut Moeller, Geoffrey M Shaw, Thomas Desaive	**ID 72:** "Autonomous Iterative Motion Learning (AI-MOLE) of a SCARA Robot for Automated Myocardium Injection"; Michael Meindl*, Raphael Mönkemöller, Thomas Seel	
	ID 100: "Functional Residual Capacity Predictions through Three Personalized Basis Functions in a Virtual Patient Model for VCV"; Trudy Caljé-van der Klei*, Qianhui Sun, Cong Zhou, J. Geoffrey Chase, Thomas Desaive	**ID 82:** "Static In-Line Gas Mixer for Physiological Capnogram Simulation"; Robin Bruett*, Claudia Durasiewicz, Christina Hagen, Philipp Rostalski, Georg Männel	
	ID 102: "Respiratory parameters via thoracic and abdominal tilt angles"; Bernhard Laufer, Rua Murray, Paul D Docherty, Sabine Krueger-Ziolek*, Fabian Hoeflinger, Leonhard Reindl, Knut Moeller	**ID 105:** "Simulated COPD in Healthy People with Increasing PEEP"; Jaimey A. Clifton*, Ella F. S. Guy, Trudy Caljé-van der Klei, Lui Holder-Pearson, J. Geoffrey Chase	
	ID 108: "Functional Residual Capacity Predictions through Three Personalized Basis Functions in a Virtual Patient Model for PCV"; Trudy Caljé-van der Klei*, Qianhui Sun, Cong Zhou, J. Geoffrey Chase, Thomas Desaive	**ID 112:** "Integration Aspects of Smart Actuators in Active Medical Implants for Personalized Medicine"; Sonja Müller*, Ulrich Mescheder	
11:30	**Lunch**		

Time	Block 1	Block 2	
12:00	**TC8.2 Meeting**		
13:00	***Cardio-Vascular***	***Biomedical Imaging***	
	ID 52: "B-spline-based Modulating Function Method for Arterial Blood Flow´s Estimations"; Boukaf Mohamed, Abderrahim Akhrouf, MESSAOUD CHAKIR, Zehor Belkhatir, Taous- Meriem Laleg*	**ID 20:** "Improved Control System for Digital Imaging Elasto-Tomography Breast Cancer Screening"; Henry Wayne Hall*, Jessica Louise Fitzjohn, Cong Zhou, J. Geoffrey Chase	
	ID 69: "Non-Contact Acquisition of PPG Signal using Chest Movement-Modulated Radio Signals"; Israel Jesus Santos Filho, Muhammad Mahboob Ur Rahman*, Taous-Meriem Laleg, Tareq Al-Naffouri	**ID 34:** "Radio Frequency Measurements for Electrical Impedance Tomography"; Alberto Battistel*, Jack Abraham Wilkie, Rongqing Chen, Ahmad Karime, Knut Moeller	
	ID 73: "Identifying the Late Systolic Shoulder and Its Determinants"; James Cushway*, Liam Murphy, J. Geoffrey Chase, Thomas Desaive	**ID 42:** "Self-Supervised DEnoising UltraSound Network (DEUS-Net)"; Christian Janorschke*, Jan Meyer, Daniel Wulff	
	ID 107: "Model Parameter Identification as an Index of Fluid Responsiveness"; Nicolas Davey*, Liam Murphy, J. Geoffrey Chase, Cong Zhou	**ID 90:** "Skin Servo Control for Neonatal Incubators: A Novel Approach Using Infrared Thermography"; Florian Voss*, Steffen Leonhardt, Markus Johannes Lueken	
	ID 109: "Estimating aortic blood pressure from femoral pressure measurements via an arterial transfer function: A Gaussian decomposition approach"; Liam Murphy*, J. Geoffrey Chase, James Cushway, Thomas Desaive	**ID 96:** "Quantitative evaluation of camera-based 3D reconstruction in laparoscopy: A review"; Birthe Göbel*, Knut Moeller	
	ID 117: "Determining Distribution of a Seven-Dimensional Point Cluster with a Novel Hypersphere Method"; Nicolas Davey*, J. Geoffrey Chase, Cong Zhou, Liam Murphy	**ID 118:** "An Explainable Machine Learning Model for Differentiation of Glioma Sub-types using MR Image Texture Analysis of Cerebral Edema"; Subham Chakraborty*, RAMAKRISHNAN SWAMINATHAN, Swathi IITM	
14:30	**Coffee Break**		
15:00	**Closing and Award Ceremony**		

Registration