Studierendentagung Lübeck 2023

HIC Lübeck

Scientific Program

2nd of March, 2023, AM 3

	Session 1 - Track C	
	Biomedical Engineering 1	
Time	Chair: Prof. Dr. Stephan Klein	
9:00	79	*I. Alhasan*
		Benchmarking of surgical lights
9:12	92	*O. A. Kostyuk, F. Moreira, Y. Guerrero*
		Assembly of an electrochemcal biosensor for the detection of Tau
9:24	78	*A. Abdallah, B. Kern, S. Müller*
		Concept development for safe operation of a mobile blood analyzer
		in harsh environments
9:36	47	*B. Kluwe, K. Mattern, N. Sandetskaya, D. Kuhlmeier, M. Rahlves*
		Novel Fabrication of Polymer Based Microfluidic Chips Using Hot Embossing
		With 3D-Printed Moulds
9:48	70	*F. Binder, B. Ottens*
		Concept study of an adapter for the reprocessing of flexible endoscopes
10:00	17	*L. S. Mennerich*
		Investigation of Cutting Properties of Surgical Scissors in
		in Applications with and without High-Frequency Energy
10:15	Coffee Break	
10:30	Postersession Jury	
	Session 2 - Track C	
	Biomedical Engineering 2	
Time	Chair:	
11:00	60	*D. v. Treuenfels, P. Dominke, S. Scholand, S. Müller*
		Fluidic design of a spectroscopic oximetry module
11:12	33	*A. Dick, L. Luft, C. Schade*
		Adjustment and evaluation of a newly designed device
		to set the reference arm length in swept source OCT
11:24	93	*B. Mustafa, M. Göb, L. Ha-Wissel, J. E. Hundt, R. Huber*
		Automated vessels count algorithm to find novel OCT-based biomarkers
		for inflammatory skin diseases
11:36	118	*M. Khalil, T. Kutscher, S. Meyer, Y. Kasprzak, S. Karpf*
		Wavelength regulation of a 1550 nm Fourier-domain mode-locked laser
		using a silicon camera
11:48	36	*S. Jegatheeswaran, M. Wunderlich, M. Stender*
		Evaluation of swept source OCT-based aberrometry measurement
12:00	106	*G. Berg*
		State of the art analysis of medical foot switches for high frequency applications
12:15	Lunch Break	

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	Session 3 - Track C	
	Biomedical Engineering 3	
Time	Chair: Dr. Alexander Neumann	
13:15	11	*E. Bösemann, M. T. Irshad, H. Fischer, M. Grzegorzek*
		Evaluation of the Usability of a Ventilation Test Framework
13:27	83	*M. Algherbawi*
		The conception and prototypical development of a valve system for a realistic
		ventilation management between lung simulator and sleep therapy device
13:39	15	*S. Janßen, A. Blohm*
		TIVA Versus Volatile Anaesthetics - What Will the Future of Anaesthesia Look
		Like?
13:51	102	*T. Bahns, S. Eisenbrand, D. Kleinewalter*
		Implementation and validation of a navigation framework for monkey testing
		of an anesthesia workstation
14:03	107	*S. Alsamna, O. Garbrecht, H. Fischer*
		Evaluation of the temporal response of a lung simulator to a step in FiO2
14:15	52	*S. Juvekar, S. Müller*
		Future of Quantum Computing in Healthcare
14:30	Coffee Break	
	Session 4 - Track C	
	Radio Technology and Locating	
Time	Chair: Peter Bartmann, M.Sc.	
14:45	43	*F. F. Okumus*
		Mavlink Based Communication Protocol Implementation
14:57	121	*N. Thom, S. O. Schmidt, H. Hellbrück*
		Development and evaluation of a localization system based on magnetic field
		measurements for identification of current carrying conductors
15:09	99	*B. Kampen, S. O. Schmidt, H. Hellbrück*
		Evaluation of Position Estimations for a Bluetooth Low Energy
		Angle-of-Arrival Localization System
15:21	128	*C. Revander, B. Sievers, H. Hellbrück*
		Adaptable, LIDAR based, mobile platform for performing
		localized indoor measurements
15:21	97	*M. Köppe, P. Bartmann*
		Demonstrating Side Effects of Digital Modulation and Demodulation
		in Educational Laboratories