	Registeration Welcome reception		Gathering, drink and snack, going toghether to Heir	nerfest
Fime Slot 8:30-9:30	Event Type Registration	Tuesday, July 8  Details  Gathering, coffee and registration		
0:30-10:00	Conference Opening Plenary Talk 1		Welcome, short talk, and introduction  Daniel Ferris, University of Florida	Robotic exoskeletons, bionic prostheses, and immersive virtual reality as to to better understand brain and body connections
11:00-11:30	Coffee Break	Time 11:30 -11:43	Title  Decoding the Interplay Between Central and Peripheral Control for Versatile	Authors  Kotaro Yasui, Emily M. Standen, Takeshi Kano, Hitoshi Aonuma, Akio Ishigu
11:30-13:00 13:00-14:00 14:00-14:30	Oral Session 1 Chair: David Remy	11:43 - 11:56 11:56 -12:09	Locomotor Repertoire in Centipedes  How Leg Stiffness Affects Energy Economy in Hopping  Cortical Activity as a Marker for User Preference in Exoskeleton Personalization	Iskandar Khemakhem, Dominik Tschemernjak, Maximilian Raff, David Rem Morteza Khosrotabar, Asghar Mahmoudi, André Seyfarth, Maziar Sharbafi
		12:09 - 12:22 12:22 -12:35 12:35 - 12:48	Role of stretch feedback when swimming inside a vortex street  The Role of Trunk Mechanics in Uphill and Downhill Walking: A Simulation and Experimental Study  The Influence of Wing and Tail Morphology on the Aerodynamics of Gliding Mammals	Alexandros Anastasiadis, Astha Gupta, Karen Mulleners, Auke Ijspeert  Vahid Firouzi, Johanna Vielemeyer, Oskar Stryk, Roy Müller  Liming Zheng, Baihui Chen, Alexander van Zuijlen, Salua Hamaza
	Lunch Break Keynote Speaker 1	12:48 -13:00	Integrating simulated muscle reflexes with volitional inputs to enhance lower-limb EMG-control  Klaus Gramann, TU Berlin	Matthias Voß, Philipp, Beckerle  Imaging the Human Brain in Real and Virtual Worlds
4:30-15:00 5:00-15:40	Keynote Speaker 2 Panel Discussions		Madhusudan Venkatesan, Yale University  Daniel Ferris, Klaus Gramann, Madhusudan Venkatesan, Emily Sta	The human foot
5:40-16:00 6:00-18:00	Coffee Break Workshops 1 Workshop 3		MoBI - Mobile Brain and Body Imaging (room 16 Bioinspired Actuators (Auditorium)	64)
Time Slot	Event Type		Wednesday, July 9  Details	
8:30-9:30 9:30-10:10 0:10-10:30	Plenary Talk 2 Poster Pitch Coffee Break		Helen Huang, UNC Order from 1 to 26 (60 sec each)	Towards Human-Prosthesis Symbiosis
10:30-12:00		Time 10:30 -10:43	Title  Rapid Human-in-the-Loop Optimization for Hip Exoskeleton Assistance During Walking: An EMG-based Approach	Authors  Guoping Zhao, Martin Grimmer, Xingsong Wang, André Seyfarth
	Oral Session 2 Chair: Martin Grimmer	10:43 - 10:56 10:56 -11:09	Natural Human Biomechanical Adaptation Behavior during the Active Ankle Exoskeleton-Assisted Locomotion  Passive exoskeletons may simultaneously augment stability, agility and efficiency of cyclic movement	Peter Seungjune Lee, Katja Mombaur  Laksh Kumar Punith, Gregory S. Sawicki
		11:09 - 11:22 11:22 -11:35	Concerted Control Framework for Gait Generation Across Models of Varying Complexity  Validating Predictive Simulations for Wearable Assistive Device Optimization: A Case Study on a Passive Biarticular Exosuit	Omid Mohseni, André Seyfarth, Maziar Sharbafi  Asghar Mahmoudi, Vahid Firouzi, Stephan Rinderknecht, Maziar Sharbafi
12:00-13:30	Lunch Break	11:35 - 11:48 11:48 -12:00	Enhancing Preferred Walking and Transition Speeds With an Active Biarticular Soft Exosuit  Partial Gait and Balance Assistance via a 3D Path Controller	Arjang Ahmadi, Vahid Firouzi, Dennis Haufe, André Seyfarth, Maziar Sharb. Zeynep Özge Orhan, Auke Ijspeert, Mohamed Bouri
13:30-14:00 14:00-14:30	Keynote Speaker 3 Keynote Speaker 4		Poramate Manoonpong VISTEC, Thailand, SDU Denmark  Jan Veneman Hocoma	Bio-inspired Neural Control with Online Adaptation for Personalized Locomotion Assistance of Interactive Exoskeletons  Applying Robotics to Rehabilitate and Support Human Mobility
4:30-15:10 5:10-15:30	Panel Discussions Coffee Break Workshop 4,		Helen Huang, Poramate Manoonpong, Jan Veneman, David I  Central vs. Distributed Movement Control (Auditor	
5:30-17:30	Workshop 5, Tutorial 1	Poster ID Title  Certifal Vs. Distributed without Control (Auditorium) LokoAssist (room 15) MPC in Robotics (room 164)  Authors		
		1 2	Is the Muscle Spindle a Length Sensor? A Model of Extrafusal Muscle Length Control Based on Intrafusal Muscle Force  Active Gait Rehabilitation using Inverse Reinforcement Learning	Yoichi Masuda, Masahiro Ishikane, Masato Ishikawa Zongwei Zhang, Michael Drolet, Firas Al-Hafez, Sebastian Hirt, Jan Peters
		3 4	Magnetic Field-Based Foot Sensor for Legged Robots  Magnetically Controlled 3D-Printed Structures for Soft Robotics and Biomedical Applications	Sanhanat Lertvittayavivat, Dhamdhawach Horsuwan, Rujikorn Charakorn, Worasuchad Haomachai, Poramate Manoonpong  Muhammad Bilal Khan, Kilian Schäfer, Denys Makarovc, and Oliver Gutflei
		5 6	Real-Time Gait Phase Estimation Based on Textile Integrated Ferroelectrets and Adaptive Oscillators  Perturbation Recovery in Human Hopping  Walking in Virtual Reality - How the Attendance of an Avatar and the Feeling of	Julian Seiler, Mark Suppelt, Ruth Wilhelm, Philipp Beckerle, Mario Kupnik Aida Mohammadi Nejad Rashty
		7 8	Embodiment Influence Human Gait  Co-contraction Share Analyses to Understand Human Reaction to Lateral Angular Perturbation during Walking	Gregor Schwinn, Maximilian Alexander Stasica, André Seyfarth  Smilja Stokanović, Omid Mohseni, Maziar Sharbafi, André Seyfarth, Heike Vallery, Nadica Miljković
		9	Joint Kinematics as Predictors of Metabolic Response to Passive Exosuits  An approach for reconstructing dinosaur locomotion using physical skeletal platforms	Vahid Firouzi, Oskar Stryk, Maziar Ahmad Sharbafi Kazuki Ito, Kaito Kimura, Kentaro Chiba, Tsukasa Okoshi, Yasuhiro Sugimo Damdinsuren Idersaikhan, Tetsuya Kinugasa, Koichi Osuka
		11 12	Combined Learning of Exoskeleton Mid-level Assistance Profiles and Low-level Control Parameters  Unraveling Robust Locomotion: How Monoarticular and Biarticular Muscle Enhance Perturbation Recovery in Robotic Hopping	Sebastian Hirt, Mustafa Kamal, Maziar Sharbafi, Michael Drolet, Rolf Finde Marc Murcia i Matute, Maziar Sharbafi, Omid Mohseni, André Seyfarth, Gregory S. Sawicki
	Poster Section	13 14	Parametric study for continuous quasi-passive walking of a musculoskeletal humanoid robot with anatomy trains  The Relationship of Psychological and Behavioural Factors and Prosthesis Satisfaction in Daily Life:	Hiroki Nishii, Hisashi Ishihara, Yusuke Tsunoda, Teruyo Wada, Koichi Osuk Zahra Abbasi, Angela Serian, Maren Prignitz, Frauke Nees, Herta Flor
		15	A Pilot Case Study  The Unique Ankle Articulation of Avimimus: Examining Its Potential Existence Through Robotic Modeling	Tetsuya Kinugasa, Hikaru Nakamura, Kentaro Chiba, Tsukasa Okoshi, Ryota Hayashi, Koji Yoshida, Buuvei Mainbayar, Khishigjav Tsogtbaatar
16:30-18:30		16	Learning Robot Locomotion from Diverse Datasets  Muscle Activity Characteristics Between Correct and Incorrect Bodyweight-Squats	Lu Liu, Michael Drolet, Oleg Arenz, Jan Peters  Dennis Haufe, Arjang Ahmadi, Sebastian Dill, Daniel Fener, Martin Grimmer, Luise Herrmann, Yanhua Zhao, Andre Seyfarth, Christoph Hoog Antink, and Maziar Ahmad Sharbafi
		18	Body Schema Integration and Emotions: The Effect of Valence and Emotional Arousal on the Body Schema Integration Process	Otilia Pasnicu, Sushian Alipanahifard  Jennifer Raynaud, Herta Flor, Kornelius Kammler-Suecker,
		19 20 21	Assessment of Perceived-Embodiment of Prostheses using Virtual Limbs: A Study Protocol  On the Importance of Muscle Activity for an Exoskeleton to Rehabilitate Temporomandibular Disorders  Techniques and Compensatory Strategies of Prosthetic Users	Julian Seiler, Mario Kupnik Paul-Otto Müller, Oskar Stryk Diana Cervera, André Seyfarth
		22 23	Simulating locomotion under anatomical and mechanical constrains  Functional Electrical Stimulation in Adults with Neurological Impairments – short- vs. long-term effects	Omer Yuval, Avi Amir, Elad Ozeri, Lena Lilti, Amir Ayali Niklas Bleichner
		24 25 26	Concurrent evolution of sensorimotor functions and musculoskeletal system in mammals  A Hydraulic Powered Ankle-Foot Prosthesis with Adjustable Nonlinear Stiffness  Strategies and Compensatory Movements of Athletes with Disabilities	Hiroshi Kimura  Bowen Li, Yulong Xiong, Qitao Huang  Diana Cervera, Tobias Welchar
		27 Titl 1-DOF Knee I	· ·	Akira Fukuhara, Megu Gunji, Yoichi Masuda, Yasuji Harada, Akio Ishiguro, I  Presenter Names  Morteza Khosrotabar, M. A. Sharbafi
18:30- 19:00	Robot Zoo	EPA Walker Redundant PA Biomimetic C	M Mono-leg Mono-legged PAM robot replicating human leg with biarticular actuation	Marc Murcia, Jitong Yang, M. A. Sharbafi Yelin Jiang, M. A. Sharbafi, R. Findeisen Akira Fukuhara et al.
	110301 200	Bio-inspired Op	en Knee Joint Robot knee joint mimicking ligaments and 3D motion with spherical surface contact and tendon-driven actuation	Shinsuke Nakashima, Yilun Sun, Julius Ambros, Christoph Rehekampff, Qi An, Atsushi Yamashita, Tim C. Lueth Bowen Li, Yulong Xiong, Qitao Huang
	Travel to dinner	Powered Ankle-F BATEX: A Soft Bia	·	BATEX: A Soft Biarticular Exosuit for Hip and Knee Joint Assistance
19:00- 22:00	Banquet		Thursday, July 10	
Time Slot 8:30-9:30 9:30-10:10	Plenary Talk 3 Poster Pitch		Details Thorsten Zander, BTU Order from 1 to 25 (60 sec each)	What Is Neuroadaptive AI and Why Will It Change Much More Than You Thi
	Coffee Break		0.401 1.011 1.10 20 (00 000 0401)	
		Time	Title	Authors Nice Poblinger Crackmannuald Marie Diete Krunke Diete Krunke
		Time 10:30 -10:43 10:43 - 10:56	Learning Robot Locomotion for Multiple Embodiments  Ground Reaction Force-based Joint Stiffness Modulation for Generating 3D Bipedal Walking	Nico Bohlinger, Grzegorz Czechmanowski, Maciej Piotr Krupka, Piotr Kicki, Krzysztof Walas, Jan Peters, Davide Tateo
10:30-12:00	Oral Session 3 Chair: Guoping Zhao	10:30 -10:43 10:43 - 10:56 10:56 -11:09 11:09 - 11:22	Learning Robot Locomotion for Multiple Embodiments  Ground Reaction Force-based Joint Stiffness Modulation for Generating 3D Bipedal Walking  Neural mechanisms of intersegmental coordination: CPGs, sensory feedback, and mechanical coupling in the spinal-transected Anguilla rostrata  Optimizing Human Gait by Reducing Metabolic Cost with Imitation Learning	Nico Bohlinger, Grzegorz Czechmanowski, Maciej Piotr Krupka, Piotr Kicki, Krzysztof Walas, Jan Peters, Davide Tateo Shunsuke Koseki, Omid Mohseni, Mitsuhiro Hayashibe, Maziar Sharbafi, Ar J. Hainer, K. Lutek, E.M. Standen Nadine Drewing, Firas Al-Hafez, Maziar Sharbafi, André Seyfarth
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10:10-10:30 10:30-12:00 12:00- 13:30 13:30- 14:00 14:00-14:30 14:30- 15:10	Chair: Guoping Zhao  Lunch Break	10:30 -10:43 10:43 - 10:56 10:56 -11:09 11:09 - 11:22 11:22 -11:35 11:35 - 11:48	Learning Robot Locomotion for Multiple Embodiments  Ground Reaction Force-based Joint Stiffness Modulation for Generating 3D Bipedal Walking  Neural mechanisms of intersegmental coordination: CPGs, sensory feedback, and mechanical coupling in the spinal-transected Anguilla rostrata  Optimizing Human Gait by Reducing Metabolic Cost with Imitation Learning  Learning from Bees: Transferring Navigation Behavior in Animals to Robot Control  Silkmoth-inspired Adaptive Sensing Control for Odor Source Localization of Walking Robots  A Framework for Online Human-Exoskeleton Activity Classification and Gait-Lab Control: Towards Automated Gait Rehabilitation  Sangbae Kim, MIT  Katja Mombaur, KIT & University of Waterloo, Canada  Thorsten Zander, Sangbae Kim, Katja Mombaur, Auke Ijspeer	Nico Bohlinger, Grzegorz Czechmanowski, Maciej Piotr Krupka, Piotr Kicki, Krzysztof Walas, Jan Peters, Davide Tateo  Shunsuke Koseki, Omid Mohseni, Mitsuhiro Hayashibe, Maziar Sharbafi, Ar  J. Hainer, K. Lutek, E.M. Standen  Nadine Drewing, Firas Al-Hafez, Maziar Sharbafi, André Seyfarth  Abhi Veda, Matthew Garratt, Mandyam Srinivasan, Sridhar Ravi  Jettanan Homchanthanakul, Shunsuke Shigaki, Poramate Manoonpong  Natchaya Sricom, Matas Manawakul, Run Janna, Kanut Tarapongnivat, Sanpoom Punapanont, Chaicharn Akkawutvanich, Poramate Manoonpong  Physical intelligence and Cognitive Biases Toward Al  Endowing humanoid robots with embodied intelligence: the roles of bio-inspiration, optimization and learning
10:10-10:30 10:30-12:00	Lunch Break Keynote Speaker 5 Keynote Speaker 6 Panel Discussions: Workshop 2, Workshop 6,	10:30 -10:43 10:43 - 10:56 10:56 -11:09 11:09 - 11:22 11:22 -11:35 11:35 - 11:48	Learning Robot Locomotion for Multiple Embodiments  Ground Reaction Force-based Joint Stiffness Modulation for Generating 3D Bipedal Walking  Neural mechanisms of intersegmental coordination: CPGs, sensory feedback, and mechanical coupling in the spinal-transected Anguilla rostrata  Optimizing Human Gait by Reducing Metabolic Cost with Imitation Learning  Learning from Bees: Transferring Navigation Behavior in Animals to Robot Control  Silkmoth-inspired Adaptive Sensing Control for Odor Source Localization of Walking Robots  A Framework for Online Human-Exoskeleton Activity Classification and Gait-Lab Control: Towards Automated Gait Rehabilitation  Sangbae Kim, MIT  Katja Mombaur, KIT & University of Waterloo, Canada  Thorsten Zander, Sangbae Kim, Katja Mombaur, Auke Ijspeeri  Coffee Break  Whitebox (room 15), Movement Academy (room 164),	Nico Bohlinger, Grzegorz Czechmanowski, Maciej Piotr Krupka, Piotr Kicki, Krzysztof Walas, Jan Peters, Davide Tateo  Shunsuke Koseki, Omid Mohseni, Mitsuhiro Hayashibe, Maziar Sharbafi, Ar  J. Hainer, K. Lutek, E.M. Standen  Nadine Drewing, Firas Al-Hafez, Maziar Sharbafi, André Seyfarth  Abhi Veda, Matthew Garratt, Mandyam Srinivasan, Sridhar Ravi  Jettanan Homchanthanakul, Shunsuke Shigaki, Poramate Manoonpong  Natchaya Sricom, Matas Manawakul, Run Janna, Kanut Tarapongnivat, Sanpoom Punapanont, Chaicharn Akkawutvanich, Poramate Manoonpong  Physical intelligence and Cognitive Biases Toward Al  Endowing humanoid robots with embodied intelligence: the roles of bio-inspiration, optimization and learning
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2:00- 13:30 3:30- 14:00 14:00-14:30 4:30- 15:10 15:10-15:30	Lunch Break Keynote Speaker 5 Keynote Speaker 6 Panel Discussions: Workshop 2, Workshop 6,	10:30 -10:43 10:43 - 10:56 10:56 -11:09 11:09 - 11:22 11:22 -11:35 11:35 - 11:48 11:48 -12:00	Learning Robot Locomotion for Multiple Embodiments  Ground Reaction Force-based Joint Stiffness Modulation for Generating 3D Bipedal Walking  Neural mechanisms of intersegmental coordination: CPGs, sensory feedback, and mechanical coupling in the spinal-transected Anguilla rostrata  Optimizing Human Gait by Reducing Metabolic Cost with Imitation Learning  Learning from Bees: Transferring Navigation Behavior in Animals to Robot Control  Silkmoth-inspired Adaptive Sensing Control for Odor Source Localization of Walking Robots  A Framework for Online Human-Exoskeleton Activity Classification and Gait-Lab Control: Towards Automated Gait Rehabilitation  Sangbae Kim, MIT  Katja Mombaur, KIT & University of Waterloo, Canada  Thorsten Zander, Sangbae Kim, Katja Mombaur, Auke Ijspeeri Coffee Break  Whitebox (room 15), Movement Academy (room 164), LocoMujocoCo (room 204)	Nico Bohlinger, Grzegorz Czechmanowski, Maciej Piotr Krupka, Piotr Kicki, Krzysztof Walas, Jan Peters, Davide Tateo  Shunsuke Koseki, Omid Mohseni, Mitsuhiro Hayashibe, Maziar Sharbafi, Ar J. Hainer, K. Lutek, E.M. Standen  Nadine Drewing, Firas Al-Hafez, Maziar Sharbafi, André Seyfarth Abhi Veda, Matthew Garratt, Mandyam Srinivasan, Sridhar Ravi  Jettanan Homchanthanakul, Shunsuke Shigaki, Poramate Manoonpong  Natchaya Sricom, Matas Manawakul, Run Janna, Kanut Tarapongnivat, Sanpoom Punapanont, Chaicharn Akkawutvanich, Poramate Manoonpong  Physical intelligence and Cognitive Biases Toward Al  Endowing humanoid robots with embodied intelligence: the roles of bio-inspiration, optimization and learning t, Oskar vonStryk
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