

## Poster Session 2-1

**Date / Time** Aug. 23 (Tue.), 2022 / 15:45-16:30

**Room** Lobby (5F)

### [TuP2-1.1]

#### **Towards Efficient Lower-Limb Exoskeleton Evaluation: Defining Biomechanical Metrics to Quantify Assisted Gait Familiarization**

Giorgos Marinou, Lizeth Sloot, and Katja Mombaur

### [TuP2-1.2]

#### **Haptic Touch: A Retrofittable Tactile Sensing Glove and Haptic Feedback Armband for Scalable and Robust Sensory Feedback**

Aidan Aug, Ariel Slepyan, Eli Levenshus, and Nitish Thakor

### [TuP2-1.3]

#### **A Portable Passive Clutch System for Selective Upper Extremity Movements**

Jisu Jeong, Yoonjin Kim, Yeonha Cho, and Youngjin Na

### [TuP2-1.4]

#### **Learning Whole-Body Effects for Biomechanics Analysis from Partial IMU Sensing**

Kazuya Tomabechi, Yosuke Ikegami, Ko Yamamoto, and Yoshihiko Nakamura

### [TuP2-1.5]

#### **A Pilot Study on Perception of Direction Cues Delivered using a Portable Electro-Tactile Biofeedback Device**

Junyeong Lee, Hosu Lee, Amre Eizad, and Jungwon Yoon

### [TuP2-1.6]

#### **Delay Time of Human Motion Generation in Response to Changing Periods in Force Tracking Task**

Kazuki Yane, Hermano Igo Krebs, and Takahiro Nozaki

### [TuP2-1.7]

#### **The Electromagnetic Manipulation System Development for Sorting Circulating Tumor Cells**

Kyoungin Kang, Cheol Sang Kim, and Chan Hee Park

### [TuP2-1.8]

#### **Benchmarking the Effects of Lower Limb Exoskeletons on Whole-Body Manipulation Tasks: Testbed, Protocols and Metrics**

Yaiza Benito Molpeceres, Guillermo Asín-Prieto, Juan C. García Orden, David Rodríguez-Cianca, Jesús Tornero, Diego Torricelli

## [TuP2-1.9]

### **Sound Source Localization through Shape Reconfiguration in a Snake Robot**

Sriranjan Rasakatla, Kazuki Sekine, Hijiri Akahane, Bipin Indurkha, and Ikuo Mizuuchi

## [TuP2-1.10]

### **Haptic Feedback Interface based on Cascade Admittance-Impedance Controller**

Icaro Ostan and Adriano Almeida Gonçalves Siqueira

## [TuP2-1.11]

### **Ultrasound-Mediated Delivery of Natural Killer Cells with Microbubble for Cancer Treatment**

Hyeong-Woo Song, Ho Yong Kim, Han-Sol Lee, Daewon Jung, You Hee Choi, Chang-Sei Kim, Doyeon Bang, Byungjeon Kang, Jong-Oh Park, and Eunpyo Choi

## [TuP2-1.13]

### **Integration of Magnetic Particle Imaging in Anisotropic Navigation Platform for Tracking of Magnetic Nanoparticles**

Kim Tien Nguyen, Minh Phu Bui, Tuan-Anh Le, Van Du Nguyen, Jayoung Kim, Jungwon Yoon, Jong-Oh Park, and Chang-Sei Kim

## [TuP2-1.14]

### **Modeling and Design of Soft, Positive-Pressure Actuated Suction Cups for Anchoring in Minimally Invasive Surgery**

Ayush Giri, Cédric Girerd, Xiaolei Luo, Ryan Broderick, and Tania K. Morimoto

## [TuP2-1.15]

### **Nonlinear Contact Modeling and Haptic Characterization of the Ovine Cervical Intervertebral Disc**

Bahram Jafari, Vida Shams, Mojtaba Esfandiari, and Soroush Sadeghnejad

## [TuP2-1.16]

### **Ultrasound Controllable Sonazoid-Conjugated NK Cell-Derived Exosomes Carrier for Solid Tumor Targeting**

Ho Yong Kim, Hyeong-Woo Song, Han-Sol Lee, Daewon Jung, You Hee Choi, Chang-Sei Kim, Doyeon Bang, Byungjeon Kang, Jong-Oh Park, and Eunpyo Choi

## [TuP2-1.17]

### **Magnetic Driven Capsule with the Open-Close Mechanism for Therapeutic Patch Delivery**

Jihun Lee, Seungmin Bang, and Sukho Park