

## Poster Session 2-2

**Date / Time** Aug. 23 (Tue.), 2022 / 16:30-17:15

**Room** Lobby (5F)

### [TuP2-2.1]

#### **Targeted Microparticle Delivery using Ultrasound Single Beam: A Preliminary Feasibility Study**

Daewon Jung, Hiep Xuan Cao, Han-Sol Lee, Ho Yong Kim, Jong-Oh Park, and Byungjeon Kang

### [TuP2-2.2]

#### **Ultrasound-Based Tracking and Autonomous Manipulation of Nanocluster in Water**

Hiep Xuan Cao, Daewon Jung, Chang-Sei Kim, Jong-Oh Park, Eunpyo Choi, and Byungjeon Kang

### [TuP2-2.3]

#### **Variable-Focus Acoustic Liquid Lens for Microparticle Manipulation: Preliminary Study**

JIYUN NAN, Eunpyo Choi, Jong-Oh Park, and Byungjeon Kang

### [TuP2-2.4]

#### **The Comparison of Homography Estimation Algorithms for Gastroscopic Images**

Sang-Kun Chun, Byungwoo Cho, Jong-Oh Park, and Byungjeon Kang

### [TuP2-2.5]

#### **Implantable Cardiovascular Biopotential Acquisition and Stimulation Circuit for Robotic Transcatheter Leadless Pacemaker**

Kyeongsik Nam, Gyuri Choi, Hyungseup Kim, Mookyoung Yoo, Sangmin Lee, and Hyoungho Ko

### [TuP2-2.6]

#### **A Platform for Real-Time Recording of Finger Forces and Surface EMG in Forearm Muscles**

Agnes Grison, Aritra Kundu, Bruno Grandi Sgambato, Silvia Muceli, and Dario Farina

### [TuP2-2.7]

#### **Significance of Friction in Mechanical Impedance Estimation**

Seongil Hwang, Hyunah Kang, and Sang Hoon Kang

### [TuP2-2.8]

#### **A Soft Bioelectronic Device for Stimulation of Peripheral Nerves**

Hyunmin Moon, Byung Wook Park, and Sohee Kim

## [TuP2-2.9]

### **Recording of Neural Signals from Peripheral Nerves using Flexible Penetrating Microelectrode Arrays**

Byung Wook Park, Jae-Won Jang, and Sohee Kim

## [TuP2-2.10]

### **5-DOF Mobile Haptic Interface for Force Rendering**

JuEun Choi, Sangeun Park, Usman Park, Youngjin Moon, and Jaesoon Choi

## [TuP2-2.11]

### **Anatomical Landmarks Classification via Deep Learning for Upper Gastrointestinal Endoscopy**

Byungwoo Cho, Sang-Kun Chun, Jong-Oh Park, and Byungjeon Kang

## [TuP2-2.12]

### **Hybrid Robotic and Electrical Stimulation Training Enhances Performance and Reduces Mental Load**

Lucille Cazenave, Martijn Eininkel, Aaron Yurkewich, Satoshi Endo, and Etienne Burdet

## [TuP2-2.13]

### **Developing a Force Generation Assessment Tool: Implication for Improving Leg Function among Individuals with Stroke**

Duguma Teshome Gemechu, Eunyong Seo, Olga Valerevna Kim, Keun-Tae Kim, and Song Joo Lee

## [TuP2-2.14]

### **Vibration Sensory Threshold Measurement using Mobile Devices**

Rachel A. G. Adenekan, Alexis J. Lowber, Bryce N. Huerta, Allison M. Okamura, Kyle Yoshida, and Cara M. Nunez

## [TuP2-2.15]

### **Effects of Adaptation Sessions using a Split-Belt Treadmill: Implication for Gait Rehabilitation after Stroke**

Olga Valerevna Kim, Duguma Teshome Gemechu, and Song Joo Lee

## [TuP2-2.16]

### **Feasibility of a Passive Wearable Device for Post-Stroke Shoulder Abduction Support**

Elizabeth Vasquez, Cole Stewart Simpson, Genggeng Zhou, Grace Waguespack, Bryce N. Huerta, E. W. Hawkes, Maarten G. Lansberg, and Allison M. Okamura