

Biomedical Robotics III	
Date / Time	Aug. 23 (Tue.), 2022 / 10:00-11:30
Room	Room 513
Session Chair	Sukho Park (DGIST)

#### [TuO1C.1]

PondusHand: Estimation Method of Fingertips Force by User's Forearm Muscle Deformation based on Calibration with Mobile Phone's Touch Screen

Satoshi Hosono, Tamon Miyake, and Emi Tamaki

#### [TuO1C.2]

The Effect of Design and Control Parameters of a Soft Robotic Fish Tail to Maximize Propulsion Force in Undulatory Actuation

Robin Hall, Erik Skorina, Shou-Shan Chiang, and Cagdas D. Onal

#### [TuO1C.3]

Free-Living Ambulatory Activity Classification: A Comparative Analysis of Wrist-Worn, Insole-Embedded, and Phone-Embedded Sensors

Ton T. H. Duongy, Leo Musacchiay, David Uherz, Jacqueline Montesz, and Damiano Zanotto

#### [TuO1C.4]

**Insect-Tarsus-Inspired Legs: Toward Improvement of Gripping Ability of Small Tree-Climbing Robots** Keitaro Ishibashi and Hiroyuki Ishii

#### [TuO1C.5]

Maintaining Mobility in Older Age - Design and Initial Evaluation of the Robot SkyWalker for Walking & Sit-to-Stand Assistance

Anas Mahdi, Jonathan Feng-Shun Lin, and Katja Mombaur

#### [TuO1C.6]

LocoESIS: Deep-Learning-Based Leg-Joint Angle Estimation from a Single Pelvis Inertial Sensor

Tsige Tadesse Alemayoh, Jae Hoon Lee, and Shingo Okamoto

# 10:15-10:30

### 10:45-11:00

10:30-10:45

#### 11:15-11:30

## 10:00-10:15

11:00-11:15