

Biomedical Robotics IV

Date / Time Aug. 23 (Tue.), 2022 / 14:00-15:45

Room Room 513

Session Chair TBA

[TuO2C.1]

14:00-14:15

Shared Control of Upper Limb Prosthesis for Improved Robustness and Usability

Rebecca J Greene, Dayeon Kim, Rahul Kaliki, Peter Kazanzides, and Nitish Thakor

[TuO2C.2]

14:15-14:30

A Versatile Emulator for Haptic Communication to Alter Human Gait Parameters

Mengnan Wu, Yingxin Qiu, Jun Ueda, and Lena H. Ting

[TuO2C.3]

14:30-14:45

Wrist-Squeezing Force Feedback Improves Accuracy and Speed in Robotic Surgery Training

Sergio Machaca, Eric Cao, Amy Chi, Gina Adrales, Katherine J Kuchenbecker, and Jeremy D Brown

[TuO2C.4]

14:45-15:00

Therapists' Opinions on Telehealth, Robotics, and Socially Assistive Robot-Augmented Telepresence Systems for Rehabilitation

Michael J. Sobrepera, Vera G Lee, and Michelle J. Johnson

[TuO2C.5]

15:00-15:15

Dynamic Finger Task Identification using Electromyography

Paria Esmatloo, Keya Ghonasgi, Raymond King, and Ashish D. Deshpande

[TuO2C.6]

15:15-15:30

Resembled Tactile Feedback for Object Recognition using a Prosthetic Hand

Luis Vargas, He Huang, Yong Zhu, Derek Kamper, and Xiaogang Hu

[TuO2C.7]

15:30-15:45

Reconfigurable Shape Morphing with Origami-Inspired Pneumatic Blocks

Yunha Park, Joohyeon Kang, and Youngjin Na