

Surgical Robotics II

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

Room Room 517

Session Chair Sukho Park (*DGIST*)

[TuO2A.1]

14:00-14:15

Design and Characterization of a Multiple Needle Insertion MRI-Guided Robot for Irreversible Electroporation (IRE) Treatment

Girindra Wardhana, Yoeko X. Mak, Momen Abayazid, and Jurgen J. Fütterer

[TuO2A.2]

14:15-14:30

A Kirigami-Based Magnetically Steerable Robotic Catheter for Treatment of Peripheral Artery Disease

Tarunraj G. Mohanraj, Jaeyun Song, Mohammad R. Rajebi, Lei Zhou, and Farshid Alambeigi

[TuO2A.3]

14:30-14:45

A 3-D Haptic Trackball Interface for Teleoperating Continuum Robots

Mufeng Xie, Cédric Girerd, and Tania K. Morimoto

[TuO2A.4]

14:45-15:00

Toward Correcting Anxious Movements using Haptic Cues on the Da Vinci Surgical Robot

Yi Zheng, Marzieh Ershad, and Ann Majewicz Fey

[TuO2A.5]

15:00-15:15

Simulating and Optimizing Nasopharyngeal Swab Insertion Paths for Use in Robotics

Peter Q. Lee, John S. Zelek, and Katja Mombaur

[TuO2A.6]

15:15-15:30

Evaluation of Surgical Performance after Extended Laparoscopic Training using Physical Haptic Constraints

Noah Wright, Deborah Farr, and Ann Majewicz Fey

[TuO2A.7]

15:30-15:45

Soft Control Interface for Highly Dexterous Unilateral Remote Palpation

Leone Costi, Thilina Dulantha Lalitharatne, and Fumiya Iida