

The 3rd Workshop on Soft Robotics

Date: June 5 (Mon), 2023

Venue: Conference Room No.2 in the 55N building, Nishi-waseda Campus, Waseda University

Program

Chairperson Prof. Toru Asahi

10:30-10:35 Opening Address Prof. Hideko Koshima

Session 1

10:35-11:05 “Biohybrid softrobot consisting of cultured muscle tissue”

Assoc. Prof. Yuya Morimoto

11:05-11:35 “Photo-induced bending of ordered inorganic-organic hybrid materials”

Prof. Atsushi Shimojima

11:35-11:55 “Versatile high-speed crystal photoactuators based on resonated natural vibration”

Mr. Yuki Hagiwara

12:00-12:15 Special Lecture “Introduction to Nano-Energy Unit of the TGU Program”

Unit Leader, Prof. Kenichi Oyaizu

Lunch

Chairperson Prof. Hideyuki Sawada

Session 2

13:30-13:50 “Application of SMA wire to robotic actuation”

Mr. Renke Liu

13:50-14:10 “Observational analysis of Marangoni convection in a self-propelling alcohol droplet”

Ms. Tamako Suzuki

14:10-14:30 “Material design and condition optimization for generating higher force of photomechanical crystals using machine learning”

Mr. Kazuki Ishizaki

14:30-14:50 “Fabrication of crystal-polymer hybrid photoactuators”

Mr. Takashi Ueno

Break

Chairperson Dr. Kenta Nakagawa

Session 3

15:20 -15:40 “Development of high-speed crystal actuators driven by the photothermal effect” online

Mr. Shodai Hasebe

15:40-16:10 “Perspectives for Soft Robotics Technologies”

Prof. Pierre Lambert

16:10-16:20 Closing Address

Prof. Toru Asahi