Smart Wearables for Biomedical Applications

Tuesday, July 6th, 2021   9:00-11:30 (CET) / 16:00-18:30 (JST)

Tokyo Institute of Technology (Tokyo Tech) and RWTH Aachen University (RWTH Aachen) have been holding joint workshops annually since 2019. Going forward, we will separately be holding two- to three-hour mini-workshops on themes of interest to our two universities. In the first mini-workshop, six speakers will present research under the theme Smart Wearables.

As travel between Germany and Japan continues to be restricted due to the COVID-19 pandemic, the mini-workshops will be held **online**. Please join us for these very convenient opportunities to share information and exchange opinions.

PROGRAM

Chair: Prof. Sven Ingebrandt, RWTH Aachen
(Times indicated below are CET)

Time	Speaker and Topic
9:00 - 9:20	**Markus Lüken,** Chair for Medical Information Technology, Helmholtz Institute for Biomedical Engineering, RWTH Aachen *Unobtrusive Monitoring of Gait Using Smart Wearables*
9:20 - 9:40	**Prof. Toshinori Fujie,** School of Life Science and Technology, Tokyo Tech *Polymer Nanosheet Technology for Tissue-Interfaced Electronics*
9:40 - 10:00	**Prof. Sven Ingebrandt,** Institute of Materials in Electrical Engineering 1, RWTH Aachen *Contactless, Battery-free, and Stretchable Wearables for Continuous Recording of Electrical and Mechanical Activity of the Heart*
10:00 - 10:20	**Prof. Thomas Gries,** Institut für Textiltechnik, RWTH Aachen *SmartTexTronicsProduction – break through in production technology for wearable electronics*
10:20 - 10:40	**Prof. Hideyuki Tsukagoshi,** School of Engineering, Tokyo Tech *Contactable Fluid Powered Soft Actuator That Approaches the Human Body from a Medical Point of View*
10:40 - 11:00	**Prof. Takamichi Nakamoto,** Institute for Innovative Research, Tokyo Tech *Wearable olfactory display and its application*
11:00 - 11:30	Discussion

We hope that this online workshop will further strengthen the research cooperation between Tokyo Tech and RWTH and continue the fruitful exchange.

Registration via

https://rwth.zoom.us/meeting/register/tJ0tdeurpjIiE9VenNboHaYSuuEEXJNtqBvo

This workshop is organized by Tokyo Tech ANNEX Aachen and the RWTH Aachen University Profile Areas.

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