

Brown Bag Seminar

No. 074

Recorded data will be uploaded

Online
(Zoom)



2022 11.16 (wed.) 12:10-12:50

12:10-12:15

◆ Introduction

12:15-12:40

◆ Seminar
(Presentation)

12:40-12:50

◆ Q&A

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https://temdec-med-kyushu-u-ac-jp.zoom.us/webinar/register/WN_ViYMs5exS6Ok9BI60Ev3_g

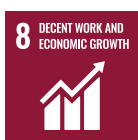
Supported by Kyushu University, Q-AOS & TEMDEC

Information technology for measuring and changing human behavior

Chair: **Assoc. Prof. Toshinori TANAKA** (Research Promotion Coordinator of Q-AOS)

Professor Arakawa Yutaka

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I was born in Itoshima City, Fukuoka Prefecture, Japan. I spent my undergraduate, master's, and doctoral years at Keio University, where I completed my doctoral studies in 2006, getting a Ph.D. degree in engineering. After graduation, I worked as an assistant professor at Keio University for 3 years and Kyushu University for 4 years. In 2013, I became an associate professor at NAIST. Finally in 2019, I'm back again to Kyushu University as a professor. During my career, I studied abroad three times: three months in France (2011) and one year in Germany (2012) when I was an assistant professor, and one year in the U.S. (2017-2018) when I was an associate professor. My research interests were in optical networking from undergraduate to my first assistant professor, but I changed my research field drastically when I turned 30 years old. Currently, I specialize in ubiquitous computing and the Internet of Things (IoT), with a particular focus on human behavior sensing. I am also pioneering the field of ICT-based behavior change support system, which uses information technology to promote better human behavior. I have received more than 35 awards and consistently had collaborated research projects with 5-10 companies in the past 10 years.

With the advancement of sensor and AI technologies, our activities are always being sensed. Our walking steps, sleep, heart rate, state (whether we are at work or not), even emotions, stress, are always sensed by a smart watch. Not only measuring, but also those devices can predict such activities. In this talk, I would like to give a brief explanation of those technologies and consider what will happen in a society where such ubiquitous computing is widespread. We already rely on the information we get from our smartphones, even when we think we are making decisions on our own. This means that there could be a future where we are deliberately manipulated by AI that predicts ahead of time. Let's think together with our imagination.

Key Words

"Human Activity Recognition"
"Behavior Change Support System"