

LaCATODA 2021 Invited Lecture

Takamasa Iio

Know-how on scenario creation for interactive robot systems

Abstract

There has been much research on social robots that provide information while conversing with people in public facilities and homes. I have developed and demonstrated various robot systems, including a guide robot that explains exhibits at a science museum, a care robot that chats with older adults at a nursing home, and entertainment robots that discuss human nature with people at an event. In terms of time and cost, such demonstrations in real-world environments prefer old-fashioned but robust methods (e.g., dialogue management based on manual scenarios) rather than sophisticated methods (e.g., state-of-the-art machine learning technology). As a result of my involvement in those projects, I have acquired the know-how to create scenarios for human-robot interaction. That know-how may be insignificant in this AI era, but it can be helpful to implement interactive robots working in the real world quickly. In this talk, I will talk about this know-how.

Invited Lecturer's Bio

Takamasa Iio received a Ph.D. degree from Doshisha University, Kyoto, Japan, in 2012. Then, he has worked at Intelligent Robotics and Communication Laboratories, ATR, Osaka University, and the University of Tsukuba. Currently, he is an associate professor at Doshisha University, Kyoto, Japan. His field of expertise is social robotics. He is interested in how people's cognition and behavior change through interaction with social robots and how human society changes.