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국문 강연제목: 인체의 이해 및 모델링 기반의 인체 정보 모니터링 시스템 개발

영문 강연제목: Monitoring of human body information based on understanding
and modeling of human body

Abstract:

After the COVID-19 pandemic, the rapid growth of telemedicine highlighted the importance of convenient measurement of health-related information at home. Consequently, many wearable sensors were developed for health monitoring. However, there are still challenges. It's difficult to get high-quality information and keep the sensor easy to use. For example, wearable sensors often struggle to provide information related to strength due to the challenges in measuring force data. Furthermore, the health information obtained from wearable sensors may not always meet accuracy standards. In addressing this challenge, many researchers have tried to implement machine learning techniques in estimating target information using wearable sensors. In my presentation, I'll talk about how understanding the human body and its movements can help machine learning work better in this area.

Brief Biosketch

Hyerim Lim received the B.S., M.S., and Ph. D. degrees in Mechanical Engineering from Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea in 2011, 2013, and 2018, respectively. After a year of postdoc in Biomechanics laboratory at KAIST, she worked as a staff researcher at Samsung Advanced Institute of Technology, Suwon, South Korea from 2019 to 2023. Recently, she joined Department of Mechanical System Engineering at Kumoh National Institute of Technology as an assistant professor.