



The Chinese University of Hong Kong



Department of Biomedical Engineering

Time: 2:00pm, 21 November 2023 (Tuesday)

Venue: ERB1122, William M.W. Mong Engineering Building, CUHK

Date-Driven Human Ability Research



Professor Wei Tech ANG

School of Mechanical & Aerospace Engineering
Nanyang Technological University

Abstract

Data-driven Human Ability Research is an emerging field at the intersection of data science, biomechanics, behavioural neuroscience, and human performance. It leverages advanced data analysis techniques to gain valuable insights into the wide spectrum of human abilities, ranging from physical movement and dexterity to cognitive-motor states. This research domain harnesses large datasets, sensor technologies, and machine learning algorithms to quantify, assess, and eventually enhance human capabilities.

Biography

Prof. Wei Tech ANG graduated with a PhD degree in Robotics from the Robotics Institute, Carnegie Mellon University, USA in 2004, and M.Eng. and B.Eng. degrees in Mechanical Engineering from NTU in 1999 and 1997 respectively. He is currently an Associate Professor at the School of Mechanical & Aerospace Engineering, NTU, and concurrently as the Executive Director of the Rehabilitation Research Institute of Singapore, a joint collaboration by Nanyang Technological University (NTU), Agency for Science, Technology and Research (A*STAR) and National Healthcare Group (NHG).

Prof. ANG's research focuses on robotics technology for biomedical applications, which include surgery, cell micromanipulation, rehabilitation, and assistive technology. His work has been well funded, published and cited, and resulted in several inventions licensed to the industry and spin-off companies.

***** ALL ARE WELCOME *****

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