



Department of
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From Soft Intelligence to embodied intelligence

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Date: 3 July 2024

Time: 2:00 pm

Venue: YEUNG-Y4702, 4/F

Yeung Kin Man Academic Building

Abstract

We are witnessing the great exploration and spread of digital artificial intelligence such as ChatGPT. It opens an era of AI, and greatly lightens the human's imagination of the future towards artificial general intelligence (AGI). As one of the widely accepted AGI forms, embodied intelligence has attracted great attention recently. However, in contrast to digital artificial intelligence, its body (physical artificial intelligence) still lags behind, which cannot match the rapid progress of digital artificial intelligence and hence delay the coming of AGI. Hence, more attention is necessary to put on its body studies. Among them, the soft body is one of the best candidates for AGI. Following, I would like to talk about our journey from soft intelligence to embodied intelligence. In particular, we discussed liquid alloyed-based soft electronic smartness and their application exploration, multifunctional soft robots from the aspect of design, fabrication, and applications development, and finally the soft-related embodied intelligence we are working on.

Biography

Zhigang Wu is currently a full Professor at Huazhong University of Science and Technology. Prior to current position, he was an Associate Professor in the division of Microsystems Technology, Uppsala University, Sweden, and held a Research Fellow at the Swedish Research Council. He has long been engaged in the design and manufacture of bionic robots, soft robots with embodied intelligence, and digital (AI)-driven design of intelligent soft structures. He has published more than 100 papers in international journals, such as Sci. Robot., Nat. Commun., Adv. Mater., Natl. Sci. Rev., and many of them are selected as highlight articles or cover articles.