



**THE CHINESE UNIVERSITY OF HONG KONG**  
Department of Information Engineering  
*Seminar*

**AI for Science -- Opportunities and Challenges**

**By**

**Prof. Ouyang Wanli**

The Chinese University of Hong Kong, Hong Kong

**Date : 1 December 2023 (Friday)**

**Time : 11:30am – 12:15pm**

**Venue : Rm 801, Ho Sin Hang Engineering Building, CUHK**

*Abstract*

Artificial Intelligence (AI) has demonstrated unparalleled potential across industries and daily lives. In particular, AI for Science has emerged as a powerful tool for addressing complex scientific challenges by designing new AI methods. Its success in various fields such as physics, biology, drug design, and weather forecasting has garnered significant attention. This talk aims to provide an overview of the current opportunities and challenges in AI for Science. Additionally, it will offer a concise introduction to our recent research endeavours on developing novel AI methods for material science, biology, and weather forecasting.

*Biography*

Wanli Ouyang received the PhD degree in the Department of Electronic Engineering, The Chinese University of Hong Kong. He was an associate professor at The University of Sydney, and in November 2023 he joined the Department of Information Engineering at The Chinese University of Hong Kong. He has won a number of competitions and awards such as the first in 2016 ImageNet ILSVRC Challenge and the first in 2018 COCO object detection Challenge. He was awarded the Future Fellowship by The Australian Research Council and the Vice-Chancellor's Award for Outstanding Research by The University of Sydney. He served as the associate editor of TPAMI, IJCV and PR, the Senior Area Chair of CVPR.

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