



THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering
Seminar

From Manual Design to Automated Deep Learning
by
Dr. OUYANG Wanli
The University of Sydney

Date : 6 January 2022 (Thursday)

Time : 9:30am – 10:30am

Zoom : <https://cuhk.zoom.us/j/94069935092?pwd=eEM2akc4TFZCT0w2VW52Tnd6aWZydz09>

(Meeting ID: 940 6993 5092; Passcode: 919282)

Abstract

This talk will introduce the manual design of deep models and automated machine learning for computer vision and pattern recognition. First, manual deep model designs for computer vision tasks will be introduced. These works show that observations from experts are useful in designing deep models and help to improve the effectiveness of deep models for many computer vision tasks. Second, this talk will introduce automated learning for deep neural network structure and other factors, e.g. loss function and sampling. A brief introduction will also be provided on the planned future works on automated machine learning and its applications to IoT and Science.

Biography

Wanli Ouyang received the PhD degree from the Department of Electronic Engineering, The Chinese University of Hong Kong. He is now an associate professor at the University of Sydney. His research interests include machine learning, computer vision, and pattern recognition. He serves as the associate editor for IJCV and Pattern Recognition, guest editor for TPAMI, area chair for CVPR, ICCV, AAAI, ICPR, and demo chair for ICCV 2019. He has served as the reviewer of many top journals and conferences such as IEEE TPAMI, TIP, IJCV, SIGGRAPH, CVPR, ICCV, and ECCV.

**** ALL ARE WELCOME ****