

Research Seminar Series 2020/21 #8

Advancement of NLP with Deep Learning

Date & Time : 12 May 2021 (Wednesday), 1:00pm - 2:00pm

Format: Join in-person: A509, CIHE / Join on ZOOM

Professor Francis Chin

Founder/Chief Solution Officer, DeepTranslate Limited, HK Science Park

Emeritus and Honorary Professor, Dept of Computer Science, University of Hong Kong

Chairperson: Professor CHAN Hing Hung Anthony, Dean of School of Computing and Information Sciences

Abstract

Over the past few years, Google and many major IT companies have invested significantly in Machine Learning technology, in particular, so-called “Deep Learning” using very-large-scale multi-layer neural networks, in order to enhance their services with, for example, better image searching and machine translation capabilities. Deep Learning has already demonstrated great success in applications across many domains such as object detection, image classification, speech recognition, natural language and text processing, medical diagnosis and drug discovery. We envision that Deep Learning will have great potential in many other areas of research and applications.

The success of Deep Learning technology relies very much on the large amount of training data and capturing of the hidden information (representation) in the data. In the talk, we shall explain how Deep Learning works and how information is represented in the Neural Network. Natural Language Processing (NLP) with its applications are discussed as examples for Deep Representation Learning.

Biography

Professor Chin has retired from HKU in 2015 and is now an Emeritus Professor of The University of Hong Kong. He is now working as Founder and Chief Solution Officer of a startup company, DeepTranslate Limited, on Machine Translation of financial documents at Hong Kong Science Park.

Professor Chin received his B.A.Sc. degree from the University of Toronto in 1972, and his M.S., M.A. and Ph.D. degrees from Princeton University in 1974, 1975, and 1976, respectively. Prior to joining The University of Hong Kong (HKU) in 1985, he had taught at the University of Maryland, Baltimore County; the University of California, San Diego; the University of Alberta; the Chinese University of Hong Kong; and the University of Texas at Dallas.

He is a Fellow of IEEE, HKIE and HKACE. He was the Chair of the Department of Computer Science and Taikoo Professor of Engineering at HKU, joined HKU in 1985 and was the founding Head of the Department from its establishment until December 31, 1999. He had served as an Associate Dean of the Graduate School from 2002 to 2006 and the Faculty of Engineering from 2007 to 2014. He was the Head and Chair Professor of Computing, Director of Deep Learning Research and Applications Centre, Hang Seng Management College (now retitled Hang Seng University of Hong Kong) from 2015-2018.



Sandwich/salad will be provided to the participants who join the seminar in-person.

All are welcome.

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