

Emerging Technologies Forum

Advances in Artificial Intelligence

Date: 22 September 2017 (Fri)

Time: 2pm to 5pm

Registration Form

To : CityU Business and Industrial Club (CUBIC)

Name : (*Prof / Dr / Mr / Ms) _____

Position : _____

Organization : _____

Phone : (Office) _____ (Mobile) _____

Fax : _____

Email : _____

Address : _____

Are you a CUBIC member? *Yes / No

Are you a member of HKIE? *Yes / No

Are you a member of IET? *Yes / No

(* please delete as appropriate)

Notes:

1. Seats will be reserved on a first-come-first-served basis. Please complete and return the registration form to us on or before **15 September 2017** by:
Fax: 3442 0883 or Email: cubic@cityu.edu.hk
2. You are welcome to invite other guests to attend the Forum. Separate form should be used for each application. Please make a copy of the form, if needed.
3. Notification on successful registration will be sent via email by 19 September 2017.

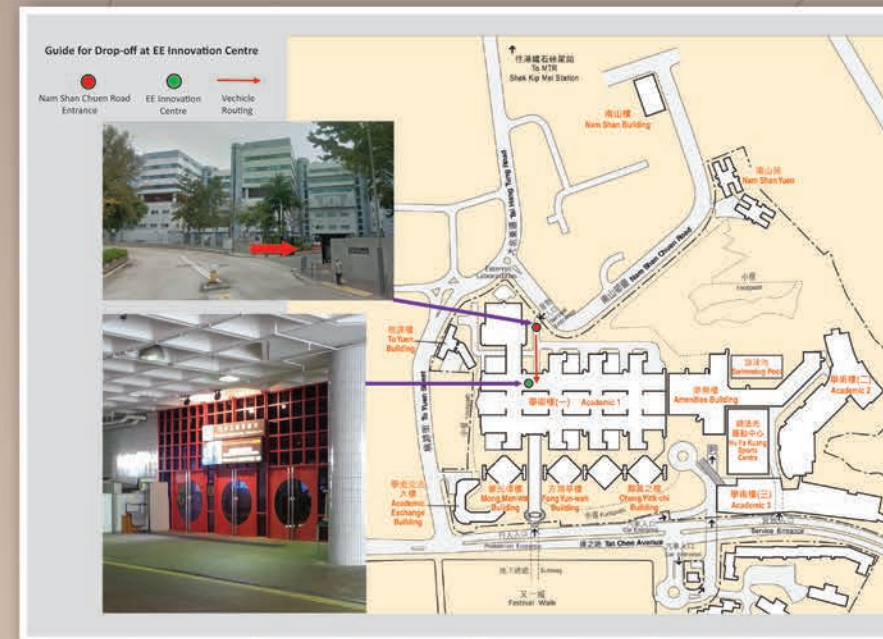
Enquiries:

Ms Maggie Mak (Tel: 3442 6821; Email: mcmak@cityu.edu.hk)

Ms Canny Tang (Tel: 3442 6420; Email: canny.tang@cityu.edu.hk)

Website: <http://www.cityu.edu.hk/kto>

Location map of venue



Emerging Technologies Forum

Advances in Artificial Intelligence

22 September 2017



Venue:

Innovation Centre
Yeung Kin Man Academic Building
City University of Hong Kong
Tat Chee Avenue, Kowloon

Language:

Cantonese/English

Admission:

Free

Organizers:



Supporting Organizations :

Hong Kong Science & Technology Parks Corporation
HKIE (TBC)
IET(TBC)

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Programme

Time	Activities
2:30 – 2:45pm	Registration
2:45 – 2:55pm	Welcoming Remarks
2:55 – 3:25pm	Presentation 1: Low-Rank Matrix Approximation and Recovery Professor H.C. So, <i>Department of Electronic Engineering, City University of Hong Kong</i>
3:25 – 3:55pm	Presentation 2: The Era of AI Computing – Rise of GPU Computing Mr. Samuel Lo, <i>Nvidia</i>
3:55 – 4:15pm	Q & A
4:15 – 5:00pm	Networking and refreshment

About the Speakers



Prof H C So received his BEng degree from City University of Hong Kong (CityU) and PhD degree from The Chinese University of Hong Kong, both in electronic engineering, in 1990 and 1995 respectively. From 1990 to 1991, he was an electronic engineer at the Research and Development Division of Everex Systems Engineering Ltd., Hong Kong. Currently, he is a professor in the Department of Electronic Engineering of CityU. He has published over 200 refereed journal papers in the field of signal processing. He has been on the editorial boards of IEEE Signal Processing Magazine, IEEE Transactions on Signal Processing, Signal Processing, and Digital Signal Processing. He is a Fellow of the IEEE.

For more information, please visit:

<http://www.ee.cityu.edu.hk/~hcso/>



Mr Samuel Lo has been involved in education and research in Asia Pacific region for over 15 years, supporting local research and ICT collaborations when he was with Sun Microsystems and Silicon Graphics. Recently he joined NVIDIA as General Manager for Hong Kong AI Tech Center supporting local research and teaching in AI and Deep Learning on GPU technology. Prior to joining NVIDIA, Mr Lo was Senior Director of Oracle China, responsible for Government Affairs and Corporate Development.

Mr Lo holds Bsc in Computer Science from the Asia International Open University.

Synopsis

Low-Rank Matrix Approximation and Recovery by Prof H C So

Many real-world signals such as textual, visual, audio and financial data lie near some low-dimensional subspace. That is, when representing these observations in matrix form, the corresponding matrices are of approximately low rank. In fact, extraction of the low-rank components or low-rank matrix approximation has been a core task in many important areas including dimensionality reduction, computer vision, machine learning and signal processing, especially with high dimensional datasets. The task of low-rank matrix approximation in the presence of missing observations is referred to as low-rank matrix recovery. In this presentation, the main ideas of the low-rank matrix approximation and recovery will be provided and their applications in recommender systems, image inpainting and restoration, and video background extraction will be highlighted.

The Era of AI Computing – Rise of GPU Computing by Mr. Samuel Lo

Artificial intelligence (AI) is the use of computers to simulate human intelligence. Learning from data – a computer’s version of life experience – is how AI evolves. GPU deep learning is a new computing model in which deep neural networks are trained to recognize patterns from massive amounts of data. Networks are then deployed in data centers and intelligent devices to infer and predict the next actions – Every industry has awoken to AI.