



Department of Electrical and
Electronic Engineering
電機電子工程系



Thought-leadership
Series

HKU EEE x HKSTP Distinguished Speaker Series

30 JUNE 2020
10:00 - 11:30 AM
VIA ZOOM

REGISTRATION:



<https://bit.ly/2XKNc4E>

Professor Huaqiang Wu

Institute of Microelectronics, Tsinghua University

Dr. Huaqiang Wu is presently the deputy director of the Institute of Microelectronics, Tsinghua University, Beijing, China. Dr. Wu also serves as the director of Micro/Nano Fabrication Center of Tsinghua University and director of Beijing Innovation Center for Future Chips.

Moderator: Dr Ngai Wong
HKU EEE Department



Artificial Intelligence Enabled by Analog Computing in **Memory**

Recently, the topic of computation in memory becomes very hot due to the urgent needs of high computing efficiency in artificial intelligence applications. In contrast to von Neumann architecture, computation in memory technology avoids the data movement between CPU/GPU and memory which could greatly reduce the power consumption. Memristor is one ideal device which could not only store information with multi-bits, but also conduct computing using ohm's law. To make the best use of the memristors in neuromorphic systems, a memristor-friendly architecture and the software-hardware collaborative design methods are essential, and the key challenge is how to utilize the memristor's analog behavior. This talk will discuss recent development of analog computing in memory technology.

Co-organizer: IEEE ED/SSC Hong Kong Joint Chapter

