Leveraging Technology for a Better Tomorrow

November 17, 2023, Friday, 6~ 7:30 PM

Seminar (Virtual) **- Introduction to Confidential Computing**

Dr. Pau-Chen Cheng
IBM Thomas J Watson Research Center

Joint Event hosted by
IEEE Computer NY Chapter, IEEE Systems, Man, and Cybernetics (SMC) NY Chapter
For program questions, Please email to ptchung@ieee.org.

Abstract: Confidential Computing (CC) has been getting more and more attention in recent years. The IT industry has figured out how to protect content in transit (TLS, IPSec) and content at rest (disk encryption), it is developing CC technology to protect content in use, i.e.; data and code in RAM. This talk will first give an overview of the CC technology, its usages in a cloud setting, and its providers, then it will use Intel TDX as an example to show some technical details, it ends with a discussion of CC's potential weakness and opportunities.

Dr. Pau-Chen Cheng is a Research Staff Member at IBM Thomas J Watson Research Center. He received his Ph.D. in electrical engineering from the University of Maryland in 1990 and joined IBM. He has been doing R&D on information and cyber security for more than 30 years. He was the principal architect and developer of IBM IPSec-VPN technology. He has also worked on intrusion detection/prevention systems, risk-based security systems, and analysis of encrypted internet traffic. He currently works on Confidential Computing. He received numerous awards from IBM, Including an IBM Corporate Award for his contribution to IBM IPSec technology.

Event Agenda: **6:00 PM**
Welcome Remark (Dr. Ping-Tsai Chung)
6:10 ~ 7:10 PM (Keynote Presentation - Dr. Pau-chen Cheng, Confidential Computing**),**
7:10 ~7:30 PM (Q/A), This event is free to attend.
ALL ARE WELCOME

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NY IEEE Seminar (Virtual) - Introduction to Confidential Computing
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