

演講題目

The Dawn of the Planet of IoT

Abstract:

For the past few decades, communication mechanism has been singularly evolving from human-to-human, human-to-machine, to machine-to-machine (M2M). "Internet of Things" or IoT, an emerging M2M paradigm, is the fulfillment of a technological utopia where a fully connected world provides instant retrieval of any existing human knowledge, rapid response to events, autonomous resource management, self-managed, regulated services, etc. It was estimated that there will be around 50 billion connected devices on earth by 2020. In this talk, I will give an overview of this incoming world of IoT with emphasis on how does this global, distributed infrastructure change the way we live, how does it impact the way business is conducted, and how do people improve their quality of lives via such seamless connectivity. Aside from conventional issues such as undisrupted connectivity, bandwidth, power efficiency, and computing capability, the pervasiveness of IoT also brings in new technological challenges including privacy and security, which can result in dire consequences if mismanaged. I will also discuss such implication from the perspective of technology development.

李憲信 副處長

演講者 台積電設計法則暨套件發展處

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台達館 215

邀請人 – 徐碩鴻教授
分機 – 31278

聯絡人 – 王脩為
分機 – 34103