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講題摘要 Topic Outline

萬物互聯，構建泛在化社會 From Connected Things to Ubiquitous Society

報告將從未來泛在化的社會化的需求角度分析 5G 物聯網的技術演進過程，強調泛在網絡是泛在計算願景與信息化社會發展目標融合的過程中，與網絡互聯、通信相結合而衍生出的概念。研發和部署包括物聯網在內的泛在網絡，實現各行業及網絡信息，尤其是社會民生相關信息的可信融合和管控，符合建設自主可控的新一代融合信息基礎設施的國家意志，是促進信息消費，實施“信息惠民”，構建安全可信的信息消費市場的有效措施。未來的發展期間是我國社會經濟向數字化轉型的重要機遇期，泛在網絡也處於體系化和應用提升的關鍵階段。報告將從邊緣計算、智能製造、智慧醫療、智慧城市、智慧交通等案例對基于物聯網的泛在信息網絡進行敘述和描繪。最後，還針對信息網絡的發展做一需求分析。

In this talk, the evolution of 5G technology will be introduced from the perspective of social needs, with a focus ubiquitous networking. The concept of ubiquitous networking arises from the deep integration of wireless network and the Internet of Things during the process of realizing the vision of pervasive computing and achieving the goal of building an information society. The development and deployment of ubiquitous networks is of critical importance to achieve trusted integration and management of all kinds of industries and Internet information services, especially those that are closely related to people's livelihood. It is in accordance with the will of the nation to build the new generation of converged infrastructure, further promote information consumption, realize the goal of "information benefits the people", and create a safe and secure environment for information consumption. Currently, we are in an important period of strategic opportunities for the digital transformation of Chinese social economy, which is also an important period of systematization and industrialization of ubiquitous networks. This talk will explain the concept of ubiquitous information network based on use cases of edge computing, smart manufacturing, smart healthcare, smart city, and intelligent transportation, complemented by a demand analysis of the future development of information networks.