



澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU

大學講壇

網絡空間新技術安全

University Lecture Series

Cyberspace Security in Relation to New Technology

網絡安全態勢年年都被認為很嚴重，得不到改善，原因是新技術不斷出現，過去的安全問題解決了，新技術又帶來了新的安全問題。新技術與安全領域之間存在着兩種效應：賦能效應、伴生效應。其中賦能效應是將新技術運用到安全領域中，從而提升了安全領域能力。當然，新技術既可運用來從事安全防禦，稱之為賦能防禦；也可用於從事安全攻擊，稱之為賦能攻擊。同樣，新技術的脆弱性會帶來新的安全問題，可能是新技術系統自身的安全問題，稱之為內生安全；也可能是新技術的脆弱性導致其他領域的不安全，稱之為衍生安全。

網絡空間安全專家方濱興院士將親臨澳大開講，報告從以上幾個維度，探討人工智能、量子技術、區塊鏈、網聯車、工業互聯網、雲計算平台、大數據系統、芯片安全、物聯網、5G 網絡等的安全問題。

Cyberspace security has been considered a critical issue which, however, has seen little improvement in the past years. As new technologies emerge, even if existing security issues are solved, novel ones appear alongside new technologies. Two effects can be observed between new technologies and cyberspace security: the enabling effect and the side effect. Academician Binxing FANG, an expert in the field of cyberspace security, will give a public lecture on this topic at UM. He will discuss security issues related to artificial intelligence, quantum technology, blockchains, intelligent connected vehicles, industrial Internet, cloud computing platform, Big Data system, chipset security, Internet of Things, and 5G networks.