

The “Internet of Things” (IoT) will see a multitude of sensors and daily-use objects connected to the Internet, transmitting huge quantities of sensitive personal information that require security. Unfortunately, most IoT devices rely on small, low-cost and battery-operated platforms, with very limited computational power. Such simplistic hardware does not support state-of-the-art cryptography.

The project "Wireless-SPIne – Wireless Security and Privacy for INternEt of things" is a radical new approach to ensure IoT security in physical layer. It combines interdisciplinary research at the edge of antenna engineering, wireless communication techniques, signal processing, cryptography and cryptanalysis. It is led by Dr Adam Narbudowicz as a joint collaboration between Technological University Dublin and Trinity College Dublin.