SaTC: CORE: Small: A Practical Approach to Study Security in Wireless Networks



Challenge:

 Efficient use of system resources to achieve secrecy in wireless communications networks.

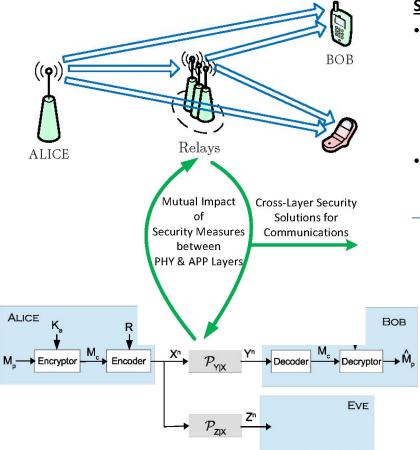
Solution:

- Design the physical layer security schemes based on the knowledge of encryption
- Making a bridge between physical layer security and cryptography

Award #:1956110

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Scientific Impact:

- The project will introduce a rigorous framework and create novel schemes to achieve efficient tradeoff of critical system resources, such as bandwidth and power
- The project will shed light on the interplay between security mechanisms at different layers of protocol stack

Broader Impact and Broader Participation:

- Achieve higher transmission rates while keeping the communication secure, better use of spectrum and resources
- Three PhD students and several undergraduate students are involved