



Special Issue on Lightweight and Energy-Efficient Security Solutions for Mobile Computing Devices



In the modern life, computing devices are becoming more and more mobile and embedded, meaning that they are vulnerable to power limitation and low resources. In this context, the needs of lightweight and energy-efficient security solutions to secure communication as well as applications in which they are involved are inescapable. The targeted mobile devices are small and low computational ones such as RFID, Contactless Smart Card, Wireless Sensors Nodes, to name a few. The aim of this Special Issue is to publish state-of-the-art research results in recent advances in Lightweight and Energy-Efficient Security Solutions for Mobile and Pervasive Computing Devices. Topics of primary interest include, but are not limited, to:

Lightweight Security and Privacy, and Energy-Efficient Solutions:

Applications in Mobile Computing for:

• Design, analysis and implementation of lightweight cryptographic protocols and applications / Low-power cryptographic architectures ◦ Hardware and software implementation and design ◦ Formal methods for analysis of lightweight cryptographic protocols • Design, analysis and implementation of lightweight privacy-preserving protocols and systems • Mobile Computing Devices in Applications: critical infrastructure protection • Wireless network security for low-resource devices • Benchmark, Test and Evaluation framework and metrics	• Steganography and secret hiding • Multimedia security • Authentication and privacy • Network forensics • Fraud detection • RFID Security and user Privacy
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IMPORTANT DATES (Tentative):

- Submission: **September 14, 2015**
- First Acceptance: **November 14, 2015**
- Amended Versions: **February 15, 2016**
- Publication Date: **April 15, 2016**