

Special Issue on
Machine Learning Approaches for Security and Privacy in Mobile Applications and Devices

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Mobile applications and devices are currently developing at a rapid pace. The rapid growth of mobile users, in conjunction with the increasing capabilities of mobile devices, has motivated malicious developers to heavily target mobile software. These devices often represent the preferred gateways for accessing sensitive assets, as well as private data, files and applications, and connectivity services. Thus, protecting sensitive user data and preventing devices from being compromised have to be considered as key research topics in the context of security research.

Facing these challenges based only on the effort of human experts and application/system developers may be unfeasible, given the rapid pace of platforms development and the ever-increasing number of attack opportunities. Machine Learning (ML), i.e., the set of techniques which allow a computer to solve a task without being explicitly programmed for it, can be a useful tool and precious aid to human experts, developers, and analysts in their fight for preserving security and privacy in the mobile world.

This special issue focuses on the mobile context and aims to solicit original research papers that discuss innovative ML solutions for security and privacy of mobile applications and devices.

Potential topics include but are not limited to the following:

- ▶ ML approaches for vulnerability detection, assessment, and testing of mobile devices
- ▶ ML-based methods and tools for testing the security of mobile apps
- ▶ Intrusion detection and prevention schemes via ML
- ▶ Solutions for improving mobile user privacy based on ML
- ▶ ML approaches for mobile device management
- ▶ Security and privacy concerns for ML solutions targeting mobile devices and applications
- ▶ Usability of ML protection mechanisms for mobile devices and applications
- ▶ ML approaches, techniques, and tools for mobile malware detection
- ▶ Trust models for mobile devices and applications

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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