

Special Collection: Privacy and Security in Smart Networks and Mobile Computing

1. Aims and Scope

With the rapid development of wireless communication technology, mobile computing has combined with popular technologies, including Internet of Things, edge computing, and blockchain. This further extends many emerging applications in diverse sectors ranging from smart transportation and smart cities to healthcare and energy management, enabling mobile devices to implement real-time data transmission and resource sharing.

While users enjoy the convenience provided by smart networks and mobile computing, a large amount of personal data, such as voice data and location information, are facing serious threats. All these personal data could reveal users' behavior habits, preferences, and even identity information, which could potentially lead to privacy and security concerns. To sum up, there is a critical need for researchers and practitioners from both academia and industry to discuss novel privacy and security solutions in smart networks and mobile computing.

This Special Collection aims to collect the latest developments on privacy and security in smart networks and mobile computing, including studies on framework design, secure mechanisms, privacy-preserving data collection and analytics, security and performance tradeoffs, and attack detection algorithms.

Potential topics for submissions include but are not limited to:

- Secure and private frameworks, protocols for smart networks and mobile computing
- Privacy preserving on data aggregation, collection, and analytics for smart networks and mobile computing
- Incentive mechanism with privacy preserving for smart networks and mobile computing
- Security and performance tradeoffs in smart networks and mobile computing
- Security challenges and mitigation approaches for smart networks and mobile computing
- Secure routing for smart networks and mobile computing
- Attack detection algorithm for smart networks and mobile computing
- Future perspectives of privacy issues in smart networks and mobile computing

2. Keywords

Smart networks, mobile computing, security and privacy solutions, privacy-preserving, attack detection

3. Guest Editors

Lead Guest Editor

Name

University/institution, Country

[Institutional email address](#)

Optional short biography paragraph

Co-Guest Editors

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University/institution, Country

[Institutional email address](#)

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