

Communications and Information Systems Security

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Scope and Motivation

With the advent of tomorrow’s global connectivity of resources and contents, all aspects of security, privacy, anonymity and trust have become a vital issue to any institution as well as individuals. The Symposium on Communication and Information Systems Security (CIS) welcomes manuscripts on new aspects, from theory to implementation and operation, which address these issues. Furthermore, also contributions devoted to the evaluation, optimization, or enhancement of security and privacy mechanisms for current technologies and applications, as well as efficient security and privacy solutions for emerging areas from physical layer technology to the application layer, are solicited.

Submitted manuscripts should represent high-quality and previously unpublished work and may not be submitted in parallel to other conferences or journals.

Main Topics of Interest

- Anonymity, anonymous communication, measures and performance analysis
- Authentication protocols and message authentication
- Availability of secure services and systems
- Biometric security: technologies, risks, vulnerabilities, bio-cryptography, mobile template protection

- Botnets prevention, detection and defense
- Cloud and distributed application security
- Computer and network forensics
- DDOS attacks, DNS spoofing, intrusion, localization and countermeasures
- Digital behavior management
- Digital right management: information hiding, watermarking, fingerprinting, and traitor tracing scheme
- Firewall technologies
- Formal trust models, security modeling and protocol design
- Identity management
- Information systems security and security management
- Integrity
- Lightweight security
- Mobile and Wireless network security, including ad hoc networks, P2P networks, 3G, 4G, sensor networks, Bluetooth, 802.11 family and WiMAX
- Multi-mode surveillance and homeland security
- Network public opinion analysis and monitoring
- Network security metrics and performance
- Operating systems and application security and analysis tools
- Optical network security
- Physical security and hardware/software security
- Privacy and privacy enhancing technologies
- Public-key, symmetric-key, applied crypto, coding-based cryptography
- Quantum cryptography
- Security in virtual machine environments
- Security in wired systems
- Social engineering
- Traffic accountability
- Trust management and certificate handling
- Virtual private networks and group security
- VoIP, IPTV, DAB, and other multimedia security
- Vulnerability, exploitation tools and virus analysis
- Web, eBusiness, eCommerce, eGovernment security

TPC members

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