Cyberthreats and Security

The landscape of cybersecurity continues to change rapidly, with new threats and attack paths that seemingly appear almost daily. At the same time, advances on the technology side have accelerated. In particular, the Internet of Things (IoT) and miniature cyber-physical systems are bringing information security concerns to every aspect of life, including clothing, kitchen appliances, and automobiles. The corporate world is also facing challenges in how to apply new technology such as the IoT and distributed ledger systems—technology that even many computer security professionals don’t fully understand.

This special issue of IT Professional seeks to provide readers with an overview of current issues and advances in information and computer security. We seek high-quality contributions from industry, government, business, and academia that present recent developments in IT security, showcase successfully deployed security solutions, or discuss challenging security issues that deserve further study. Topics of interest include, but are not limited to, the following:

- Security in the IoT and cyber-physical systems
- Blockchain and distributed ledger systems
- Authentication and access control
- Physical and behavioral biometrics
- Applications of cryptography
- Cloud and distributed system security
- Computer forensics
- Privacy preservation in data mining and data analytics
- Intrusion-detection systems
- Malware detection
- Mobile app and device security
- Network security
- Legalities and ethics associated with security and privacy policies
- Protection of personal information
- Security architecture
- Usability and human factors issues
- Wearable device security
- Web application security
- Security of online transactions

Submissions
Feature articles should be no longer than 4,200 words and have no more than 20 references (with tables and figures counting as 300 words). Illustrations are welcome. For author guidelines, including sample articles, see www.computer.org/portal/web/peerreviewmagazines/acitpro. Submit your article at https://mc.manuscriptcentral.com/itpro-cs.

Questions?
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