



# IEEE SYSTEMS JOURNAL

## Special Issue on Security and Privacy in Complex Systems



Today's information society relies on a globally interconnected infrastructure composed of diverse and widely distributed systems. It is of utmost importance to ensure proper protection to such complex systems, or systems-of-systems, to ensure security, privacy, and availability of the infrastructure as well as of resources and information it provides and manages. The problem is far from trivial, due to the criticality and the social impact of the applications and services relying on this global infrastructure, as well as the complexity given by the co-existence and co-operation of, possibly heterogeneous, component systems.

The goal of this special issue is to collect high-quality contributions on security and privacy in complex systems and systems-of-systems. We solicit submissions from academia, industry, and government presenting novel and original research on all theoretical and practical aspects of security and privacy in complex systems. The focus of the special issue spans security and privacy theory, technology, methodology, and applications in *complex systems*. *Submitted papers should therefore explicitly address issues in the complex system scenario*. Topics of interest include, but are not limited, to the ones listed below *provided that they are treated with specific focus on the complex system scenario*.

access control	secure interoperability
anonymity	security and privacy metrics
applied cryptography	security and privacy policies
authentication	security and privacy in cloud computing
biometric security and privacy	security and privacy in ad hoc networks
cyber warfare and security	security and privacy in e-services
complex systems security	security and privacy in grid computing
computer forensics	security and privacy in mobile systems
critical infrastructure protection	security and privacy in monitoring systems
data and application security	security and privacy in industrial systems
data protection	security and privacy in pervasive/ubiquitous computing
data/system integrity	security and privacy in sensor networks
dependability, reliability, and availability	security and privacy in smart grid and distributed generation systems
formal methods for security and privacy	security and privacy in social applications and networks
human factors in security and privacy	security and privacy in wireless sensor networks
identity management	security architectures
insider threats	security management in complex scenarios
intrusion detection and prevention	social implications of security and privacy
knowledge extraction/representation for security	surveillance systems
legal and ethical issues	threats, vulnerabilities, and risk management
middleware security	transportation systems
network security	trust management
operating systems security and privacy	usable security for complex systems
protection from cyberhacking	verification and validation of complex systems
security engineering	web service security
secure environments and applications	

Submitted papers must not be simultaneously submitted to a journal or a conference with proceedings. Extended versions of prior work should provide sufficient novel and original technical content; prior publications should be explicitly referenced in the bibliography, and comparison and added value with respect to prior publications should be discussed in the text. All manuscripts for this special issue should be uploaded via the IEEE Systems Journal Web site (<http://isj.engineering.utsa.edu/>), in the *section dedicated to the special issue*, by the deadline of *October 1, 2011*, and should follow formatting and submission instructions available at the Web site. For any questions on the special issue, send email to [pierangela.samarati@unimi.it](mailto:pierangela.samarati@unimi.it).

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