

CALL FOR PAPERS

ACM Transactions on Internet Technology

Special issue on the economics of security and privacy



ACM Transactions on Internet Technology

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IMPORTANT DATES:

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The global adoption of the Internet has transformed economies as well as societies. Internet technologies, however, also resulted in heightened societal concerns about information security and privacy. Its insufficiency – actual or perceived – has become a barrier to certain economic activities, and a source of downside risk to growth and sustainability, with possible systemic impact.

Scholars have realized for long that choices pertaining to security and privacy affect the world outside the narrow modeling of the engineering systems. In essence, these choices are economic. Thus, the analysis should incorporate the models and methods developed in economics and in the behavioral sciences. This special issue will highlight major achievements and latest advances in this interdisciplinary research field. We aim to gather the cutting-edge contributions from academia and industry.

We invite high quality submissions of original work not under review elsewhere. Submissions should adhere to the standards of the authors' disciplines and contain novel elements such as mathematical and statistical modeling, and analysis of reproducible experiments. The use of non-traditional novel technical tools is especially encouraged. Topics of interest include (but are *not limited to*):

Nature and causes of security and privacy risks

- Models and analysis of attacker behavior
- Definition and quantification of cyber and/or privacy risks
- Valuation of personal data, privacy, and anonymity
- Game theoretic analysis of incentives for security and privacy
- Vulnerabilities and breaches (discovery and disclosure)

Effects of security and privacy risks

- Cyber crime (modeling and mitigation)
- R&D and technology adoption (security and privacy enhancement)
- Economic analysis of protocols: incentives and adoption
- Producers and consumers: behaviors and interactions (incl. platform markets, large scale cyber physical systems, and critical infrastructures)

Intervention approaches

- Information sharing and cooperation, social cohesion
- Regulations and policies (analysis and evaluation)
- Cyber risk management (incl. cyber insurance)
- Privacy-preserving mechanisms and incentives

Initial submissions are limited to 20 pages and should comply with the ACM Transactions on Internet Technology policies. Authors can add a clearly marked appendix (no space limit) not counting towards the 20-pages limit. For accepted papers, the appendices will be available on the ACM digital library. Please refer to <http://toit.acm.org/authors.cfm> for complete formatting and submission instructions.