

Introduction to the HICSS-50 Minitrack on Innovative Behavioral IS Security and Privacy Research

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This minitrack provides a venue for innovative research that rigorously addresses the risks to information system security and privacy, with a specific focus on individual behaviors within this nomological net. Domains include work related to detecting, mitigating, and preventing both internal and external human threats to organizational security. Papers may include theory development, empirical studies (both quantitative and qualitative), case studies, and other high-quality research manuscripts.

This year the minitrack features eight papers and one research panel. These contributions address a range of behavioral security and privacy research questions that will stimulate further discussion and exploration of the key phenomena within this domain.

One group of papers addresses the research traditions in our sub-discipline, with papers that conduct a meta-analysis of the compliance literature, review the measurement of information privacy awareness in our literature stream, and evaluate the role of emotions in deviant security behavior. These papers will frame fundamental introspection of our core research theories and constructs so that we may refine our research approaches.

- “Seeing the forest and the trees: A meta-analysis of information security policy compliance literature” (by W. Alec Cram, Jeffery Proudfoot, and John D’Arcy)
- “Information Privacy Awareness (IPA): A Review of the Use, Definition and Measurement of IPA” (by John Correia and Deborah Compeau)
- “Anger or Fear? Effects of Discrete Emotions on Deviant Security Behavior” (by Feng Xu, Xin Luo, and Carol Hsu)

A second group of papers featured within this minitrack is focused on research topics

related to privacy, including privacy issues within mobile interactions, privacy related to violent acts, and a contrasting look at privacy versus security in online social networks.

- “The Mobile Privacy-Security Knowledge Gap Model: Understanding Behaviors” (by Robert E. Crossler and France Bélanger)
- “Institutional Violence Complaints in Argentina: A Privacy Study” (by Jorge Roa, Pablo Villarreal, Marcelo Fantinato, Patrick C. K. Hung, and Laura Rafferty)
- “Can Privacy and Security Be Friends? A Cultural Framework to Differentiate Security and Privacy Behaviors on Online Social Networks” (by Ersin Dincelli and Sanjay Goel)

Finally, the third group includes two papers and one panel, which is a first within our minitrack. The theme of this group is user authentication, including the use of passwords. An interesting look at biometrics is followed by a look at password managers. We then offer a panel to investigate if passwords are dead!

- “Insider Misuse Identification using Transparent Biometrics” (by Nathan Clarke, Fudong Li, Abdulrahman Alruban, and Steven Furnell)
- “So Much Promise, So Little Use: What is Stopping Home End-Users from Using Password Manager Applications?” (by Salvatore Aurigemma, Thomas Mattson, and Lori Leonard)
- “Not quite dead yet: password authentication revisited” (Panelists: Steven Furnell, Robert Crossler, and Sanjay Goel)

We trust that this year’s contributions will stimulate interesting discussion and will advance the research within our discipline.