

## Introduction to the HICCS-47 Minitrack on Innovative Behavioral IS Security and Privacy Research

Merrill Warkentin  
Mississippi State University  
[m.warkentin@msstate.edu](mailto:m.warkentin@msstate.edu)

Allen C. Johnston  
University of Alabama at  
Birmingham  
[ajohnston@uab.edu](mailto:ajohnston@uab.edu)

Anthony Vance  
Brigham Young University  
[anthony@vance.name](mailto:anthony@vance.name)

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 minitrack will provide IS/IT researchers a collaborative forum to share their research approaches. We hope to attract the skills and insights of scholars from a wide set of disciplines, presenting a mix of theoretical and applied papers on threats and mitigation.

This year the minitrack features eleven papers covering a range of behavioral privacy and security topics and methods. These papers are summarized below as follows:

- “Rethinking the Information Security Risk Practices: A Critical Social Theory Perspective” by Devinder Thapa and Dan Harnesk examines information risk practices through the lens of critical social theory, a perspective rarely applied to information security.
- “A Cross Industry Study: Differences in Information Security Policy Compliance between the Banking Industry and Higher Education,” by Hwee-Joo Kam and Pairin Katerattanakul, examines differences in information security policy compliance between the banking and higher education sectors.
- “Factors Affecting Perceptions of Privacy Breach among Smartphone Application Users,” by Stanislav Mamonov and Raquel Benbunan-Fich, studies four factors affecting perceptions of privacy breaches among smartphone application users.
- “Effects of Privacy Concerns on the Distribution Channels Adopted by Location Based Services,” by Adrian Tan, Wen Yong Chua, and Klarissa Chang, shows that two location-based service channels (push and pull) affect the degree of information privacy concerns between the literate and semi-literate users.

- “A Longitudinal Study to Determine Non-Technical Deterrence Effects of Severity and Communication of Internet Use Policy for Reducing Employee Internet Abuse,” by Morgan Shepherd, Roberto Mejias, and Gary Klein, investigates how employee Internet abuse can be reduced via IT acceptable use policies. The study used actual usage and audit logs to monitor the web activity of employees.
- “Why Individuals Commit Information Security Violations: Neural Correlates of Decision Processes and Self-Control,” by Qing Hu, Robert West, Laura Smarandescu, and Zachary Yapple,” uses social control theory as measured by electroencephalography (EEG) to explain information security policy violations.
- “Improving Compliance with Password Guidelines: How User Perceptions of Passwords and Security Threats Affect Compliance with Guidelines,” by Florence Mwangwabi, Tanya McGill, and Michael Dixon, uses protection motivation theory to explain perceptions of security threats to passwords.
- “The Effect of Using Visualizations in Privacy Policies on Trust in Data Privacy and Security,” by Jörg Becker, Marcel Heddier, Ayten Öksüz, and Ralf Knackstedt, investigate how visualizations that communicate privacy and security measures affect trust.
- “Assessing Sunk Cost Effect on Employees’ Intentions to Violate Information Security Policies in Organizations,” by Miranda Kajtazi, Burcu Bulgurcu, Hasan Cavusoglu, and Izak Benbasat, studies how employees’ perceived sunk costs influence information security policy violations.
- “Short-Time Non-Work-Related Computing and Creative Performance, by Jungwon Kuem and Mikko Siponen, examines the benefits of short-time non-work-related computing on creative performance.
- “A Longitudinal Study of Information Privacy on Mobile Devices,” by Mark Keith, Jeffry Babb, and Paul Benjamin Lowry, uses a novel and authentic field experiment to examine privacy concerns towards mobile devices.