
The Journal of Information System Security is a publication of the Information Institute. The JISSec's mission is to significantly expand the domain of information system security research to a wide and eclectic audience of academics, consultants and executives who are involved in the management of security and generally maintaining the integrity of the business operations.

Editor-in-Chief
Gurpreet Dhillon
University of North Texas, USA

Managing Editor
Filipe de Sá-Soares
University of Minho, Portugal

Publishing Manager
Mark Crathorne
ISEG, Universidade de Lisboa, Portugal

ISSN: 1551-0123
Volume 19, Issue 1

www.jissec.org

EDITORIAL

All the three papers of this Issue concern practical examples of how to prevent fraud and threats to information systems security. The first two papers propose concrete measures for the acceptance and adoption of two emerging Systems Security preventative integrated services: Digital Security by Design (DSbD) and Security-as-a-Service (SecaaS). In the last of the three papers, the authors present a highly effective mechanism that they designed for combating Shill bidding auction fraud.

The first paper, entitled 'Assessing Organizational Awareness and Acceptance of Digital Security by Design', is by Steven Furnell, Maria Bada and Joseph Kaberuk, who are all based in the UK. It discusses the need to enable Security by Design, i.e., building in systems security and protection from the outset in order to avoid vulnerabilities at source. It reports on a survey carried out in the UK to investigate organizational awareness and acceptance of the Digital Security by Design (DSbD) concept, revealing that awareness of DSbD is currently limited, although a positive perspective prevails.

In the second paper, 'An Empirical Analysis of the Factors Driving Organizational Satisfaction with Security-as-a-Service', the authors, Ali Vedadi, Timothy Greer and Nita Brooks, from the USA, study Security-as-a-Service (SecaaS), a rapidly growing cloud service. By proposing an integrative theoretical framework, the authors developed a research model and tested the research hypotheses concerning integration issues and the need for proper governance and mindful adoption, presenting findings with considerable implications for both theory and practice alike.

The third paper is entitled 'Shill Bidding Detection in Real-Time Across Multiple Online Auctions', and is by Nazia Majad and Jarrod Trevathan, from Bangladesh and Australia, respectively. It examines the phenomenon of Shill bidding, the most severe and persistent type of auction fraud, where bidders place artificial bids to inflate the final price of an online auction. The authors propose a mechanism for detecting shill bidders in real-time, using an algorithm which is 99.4% effective in detecting shill bidding while an auction is in progress. This mechanism possesses great potential value in enabling auctioneers to take immediate action to prevent innocent bidders becoming victims.

I hope that you will find this Issue interesting reading.

Gurpreet Dhillon, Editor-in-Chief