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Persona-Centred Information Security Awareness

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Biographical Sketch for - Persona-Centred Information Security Awareness

Duncan Ki-Aries is a Cyber Security PhD Research student in the Department of Computing & Informatics at Bournemouth University. His PhD research is specifically looking at Risk Assessment in Complex Systems of Systems (SoS), which incorporates a number of research areas of interest, such as System of Systems Engineering (SoSE), Interoperability, Risk Management, Security, Awareness, Trust, Privacy, Usability, and Human Factors.

Dr Shamal Faily is a Senior Lecturer in the Department of Computing & Informatics at Bournemouth University. His research explores how security can be designed into software systems. In particular, he aims to understand how interaction design techniques and software tools can be used to build and maintain systems that are not only secure, but also usable within different contexts of use. As such, Shamal's research interests are at the intersection of Cyber Security, Software Engineering, and Human-Computer Interaction (HCI).

Abstract

Maintaining Information Security and protecting data assets remains a principal concern for businesses. Many data breaches continue to result from accidental, intentional or malicious human factors, leading to financial or reputational loss. One approach towards improving behaviours and culture is with the application of on-going awareness activities. This paper presents an approach for identifying security related human factors by incorporating personas into information security awareness design and implementation. The personas, which are grounded in empirical data, offer a useful method for identifying audience needs and security risks, enabling a tailored approach to business-specific awareness activities. As a means for integrating personas, we present six on-going steps that can be embedded into business-as-usual activities with 90-day cycles of awareness themes, and evaluate our approach with a case study

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