

KM Conference 2021

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Themes: Knowledge Management, Cybersecurity, Learning, and Information Technology

<https://iiakm.org/conference/>

1st Day Opening Keynote Lecture

Cybersecurity – Do we have the knowledge to manage it?

Professor Steven Furnell

Professor of Cyber Security, University of Nottingham, United Kingdom

Keynote Overview:

Cybersecurity is now regularly encountered by IT users in both personal and workplace contexts. However, despite widespread and established use of digital technology, our ability to use it in a security-aware manner is arguably lagging behind our enthusiasm for deploying devices and adopting new services. This leads to recognised problems in terms of user-focused threats and exploitation, but the most common response is frequently to try to direct more technology toward the problem. This presentation proposes that what is actually required is a credible foundation of cybersecurity literacy, sitting within the wider context of digital/data literacy frameworks. The discussion considers what ought to be encompassed within such an approach, including to ensure that users have credible knowledge and understanding of the threats they may face and the safeguards to protect against them, alongside the skills and capabilities to put such knowledge into practice. At the same time, there are challenges to be faced in terms of how to promote and provide the required knowledge, and the consistency of information that users may receive. There is also the overarching challenge of an ever-broadening range of devices and services to which such knowledge needs to be applied, as well as the evolving landscape of threats and safeguards as further new technologies and applications continue to emerge.

About the Keynote Presenter:

Steven Furnell is professor of cyber security at the University of Nottingham. He is also an Adjunct Professor with Edith Cowan University in Western Australia and an Honorary Professor with Nelson Mandela University in South Africa. His research interests include security awareness and culture, usability of security and privacy, and technologies for user authentication and intrusion detection. He has authored over 340 papers in refereed international journals and conference proceedings, as well as books including *Cybercrime: Vandalizing the Information Society*, *Computer Insecurity: Risking the System* and *Cybersecurity Education for Awareness and Compliance*. Prof. Furnell is the current Chair of Technical Committee 11 (security and privacy) within the International Federation for Information Processing, and a member of related working groups on security management, security education, and human aspects of security. He is also a board member of the Chartered Institute of Information Security and chairs the academic partnership committee. Prof. Furnell was a contributor to the human security knowledge area within the CSEC2017 cybersecurity curricula guidelines, and has recently contributed to the Qualifications workstream within the UK Cyber Security Council formation project. He has also been involved in a variety of studies conducted for the UK's Department for Digital, Culture, Media & Sport, including annual analysis of the cybersecurity skills in the labour market.

