

# Contents

Introduction.....	iv
Focus.....	v
Conference Committees.....	vii
Review Committee.....	viii
Review Process.....	xi
A framework towards governing “Bring Your Own Device in SMMEs” <i>Noluvuyo Fani, Rossouw von Solms and Mariana Gerber</i> .....	1
PoPI Act - opt-in and opt-out compliance from a data value chain perspective: A South African insurance industry experiment <i>Paulus Swartz and Adele Da Veiga</i> .....	9
An Interactive Visual Library Model to Improve Awareness in Handling of Business Information <i>Petrus Marthinus Jacobus Delpont, Mariana Gerber and Nader Sohrabi Safa</i> .....	18
Mobile Device Usage in Higher Education Institutions in South Africa: A Case Study <i>Ryan De Kock and Lynn Futcher</i> .....	27
SHA-1 and the Strict Avalanche Criterion <i>Yusuf Motara and Barry Irwin</i> .....	35
Specific Emitter Identification for Enhanced Access Control <i>Jeevan Samuel and Warren Du Plessis</i> .....	41
Review of Data Storage Protection Approaches for POPI Compliance <i>Nicholas Scharnick, Mariana Gerber and Lynn Futcher</i> .....	48
CDMA in signal encryption and information security <i>Olanrewaju Wojuola, Stanley Mneney and Viranjay M Srivastava</i> .....	56
Effect of Varying Mobility in the Analysis of Black Hole Attack on MANET Reactive Routing Protocols <i>Lineo Mejaele and Elisha Ochola</i> .....	62
The Pattern-richness of Graphical Passwords <i>Johannes Vorster, Renier van Heerden and Barry Irwin</i> .....	69
Dridex: analysis of the traffic and automatic generation of IOCs <i>Lauren Rudman and Barry Irwin</i> .....	77
Context-Aware Mobile Application for Mobile Devices <i>Mfundo Masango, Francois Mouton, Alastair Nottingham and Jabu Mtsweni</i> .....	85
Team Formation in Digital Forensics <i>Wynand van Staden and Etienne van der Poel</i> .....	91
Social Network Phishing: Becoming Habituated To Clicks and Ignorant To Threats? <i>Edwin Donald Frauenstein and Stephen Flowerday</i> .....	98
Identity Management for e-Government (Libya as a case study) <i>Othoman Elaswad and Christian D. Jensen</i> .....	106
Recognizing Surgically Altered Faces using Local Edge Gradient Gabor Magnitude Pattern <i>Chollette Olisah and Peter Ogedebe</i> .....	114
Adaptable Exploit Detection through Scalable NetFlow Analysis <i>Alan Herbert and Barry Irwin</i> .....	121
Unsupervised Learning for Robust Bitcoin Fraud Detection <i>Patrick Monamo, Vukosi Marivate and Bhekisipho Twala</i> .....	129