THREAT 20 SUMMIT 19

JUNE 26 – 27, 2019
JOHANNESBURG, SOUTH AFRICA

Triple

Helix

Cybe**R**

s**E**curity

Africa

Summi**T**

Government
Academia
Industry

http://www.threatcon.co.za
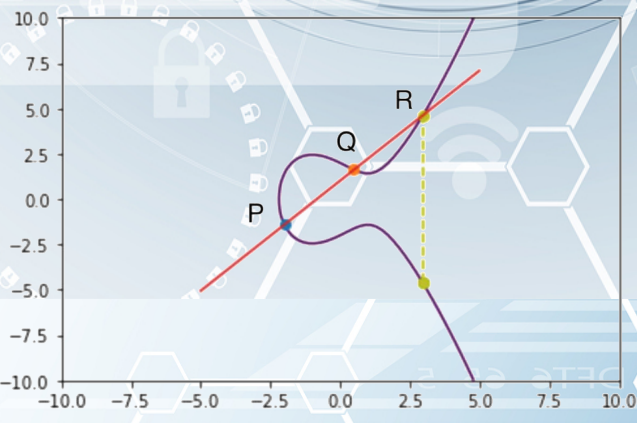
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THREAT 2019 Summit

The THREAT 2019 Summit is a first-of-its-kind collaboration in Africa that brings together cybersecurity expertise from government, academia and industry for a high-powered series of discussions, workshops and networking opportunities. It presents a unique opportunity for researchers, industry professionals and government leaders to share ideas and best practice towards enhancing Africa's cybersecurity posture. The summit will be held over two days on **26 and 27 June 2019** and will comprise six plenary sessions in which perspectives from cybersecurity researchers, professionals and government will be shared.

All papers accepted for the summit will appear in the conference proceedings, with selected full conference papers being reviewed for consideration for the African Journal of Information and Communication (AJIC). This thematic issue of the *African Journal of Information and Communication* (*AJIC*) will publish articles presenting original research in the interdisciplinary cyber security research domain, as well as other value-adding contributions, such as case studies.

Summit Themes

Cybersecurity, Privacy and the emerging legislative framework
Legislation relating to the protection of personal information and data privacy exist or are in development in many countries. In South Africa, for example, the passing of the POPI Act and the imminent promulgation of the Cybercrime and Cybersecurity Bill provides the legislative framework for the protection of cyberspace in South Africa. Additionally, South Africa's National Cybersecurity Policy Framework (NCPF) places obligations on sectors to create a collective capability, envisaged as sector Computer Security Incident Response Teams (CSIRTs). The operationalisation of these national and sector CSIRTs are at the coal face of cybersecurity. While CSIRTs are the accepted strategy for South Africa to address cybersecurity, many countries approach this differently. These methodologies are effective to different degrees. In this theme, these strategies and their effectiveness will be interrogated with a view to understanding their role in regulating public discourse and business behaviour.

Cybersecurity skills, training and awareness
It is internationally acknowledged that end-user security awareness is a critical factor in ensuring an acceptable cybersecurity posture for organisations. The rapid expansion of access to high-speed always-on networks to an expanding base of unskilled users creates a serious problem for cybersecurity practitioners. Massive training and skills development and awareness initiatives are essential to address this problem.

Legal and legislative frameworks to combat international cybercrime
The borderless nature of cybercrime makes prosecuting cybercriminals extremely difficult. There continue to be attempts at international treaties to police cyberspace, but with limited success. A discussion of international cybercrime incidents in relation to their prosecution will be discussed in this theme.

Social impact of cybersecurity
Today cyber threats affect the fabric of social life, as trust, confidentiality and privacy can be trampled upon as a result of cyber-attacks. The way it affects societies, cultures, religions and demographics may differ significantly in scope and severity.

Emerging technologies, blockchain, cryptography, fintech, quantum computing, AI, threat hunting
As technology evolves so does the sophistication of cyber-attacks. Cybersecurity solutions quickly become ineffective as the threat landscape evolves. Proactive cyber defence utilising AI represents potential

solutions to the evolving Cyberthreat landscape. Technological advancements driven by the IoT and 4IR bring significant benefits for businesses and consumers. However, these digital disruptions place pressure on cybersecurity solutions as cybercriminals exploit emerging technologies. Agile cybersecurity solutions are necessary.

Digital forensics, computer and network forensics
The increasing integration of technology into the everyday lives of consumers presents prime opportunities for criminals. It is not clear whether consumers understand the security risks posed by personal and integrated computer devices.

THREAT 2019 Workshops
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AGENDA

DAY 1: Wednesday 26 June 2019

7:00   **Registration**
8:00   **Tea/Coffee**

8:00   **Opening and**
8:30   **Welcome**

9:00   **Session 1: Cybersecurity, Privacy and the emerging legislative framework**

Keynote Speaker: **Mr. Sizwe Snail, Snail Attorneys and Information Regulator**
Sizwe is registered with the University of Fort Hare for an LLD and is a member of South African Information Regulator and member of Films and Publication Appeal Board since 2016. Sizwe Lindelo Snail ka Mtuze holds a Baccalareus Legum (LLB) from the University of Pretoria with Tax Law and Cyber-Law electives He is a practising attorney with the law firm, Snail Attorneys at Law and International Co-ordinator of the African Centre for Cyberlaw and Crime Prevention based in Kampala, Uganda also as an (LLM)from UNISA.

Keynote Speaker: **TBC**

Research Presentations

Paper 1:   **TBC**

Paper 2:   **TBC**

Paper 3:   **TBC**

Panel Discussion

11:00   Tea Break

11:30   Session 2: Cybersecurity skills, training and awareness

Keynote Speaker: Prof Fulufhelo Nelwamondo, Executive Director of CSIR Modelling and Digital Science

Prof Fulufhelo Nelwamondo is one of the youngest South Africans ever to receive the Harvard South Africa Fellowship and has been awarded many national and international research accolades, from organisations such as the IEEE and South African Institute of Electrical Engineers, among others. He has been awarded several accolades for best research and he has supervised a number of Masters and Doctoral students in Electrical Engineering and Computer Science. Prof Nelwamondo has published over 100 research papers in journals, reviewed conferences and book chapters. He Fulufhelo Nelwamondo is a founding member of the South African Young Academy of Science and served on the Department of Home Affairs ministerial advisory committee on modernisation.

Keynote Speaker: TBC

Research Presentations

Paper 1:   TBC

Paper 2:   TBC

Paper 3:   TBC

13:30   Lunch

14:30   Session 3: Legal and legislative frameworks to combat international cybercrime

Keynote Speaker: Ms Pria Chetty

Pria Chetty has over 10 years experience as a technology law and policy advisor to public and private sector organisations, developing country governments and international organisations. In 2007, Pria founded a leading South African technology law firm which was acquired by Pricewaterhouse Coopers in 2011. Following the acquisition, Ms. Chetty was responsible for establishing and heading the technology legal and regulatory service area for the PwC national advisory practice. She left PwC in 2013 and went on to serve as an expert consultant on an ITU project focusing on technical assistance in the area of cybersecurity law and policy for Southern African countries. Pria currently serves as a member of regional and international expert groups and advisory boards including the BRICS Cybersecurity Expert Group and the Southern African Innovation Network and is an Associate at the Global Cybersecurity Centre at Oxford University.

Keynote Speaker: TBC

Research Presentations

Paper 1:   TBC

Paper 2:   TBC

Paper 3:   TBC

16:30   Breakaway Workshops

A series of workshops have been scheduled that will explore selected topics or will focus os specific industry sectors. The workshops are practical, hands-on and interactive. They will explore specific themes relating to the sector and / or provide best-practice……

18:30   End of Day 1 - Welcome Cocktail

DAY 2: Thursday 27 June 2017

7:00   Registration
8:00   Tea/Coffee

9:00   Session 4: Social impact of cybersecurity

Keynote Speaker: TBC

Keynote Speaker: TBC

Research Presentations

Paper 1:   TBC

Paper 2:   TBC

Paper 3:   TBC

11:00   Tea Break

11:30 Session 5: Emerging technologies, blockchain, cryptography, fintech, quantum computing, AI, threat hunting

Keynote Speaker:

13:30   Lunch

14:30   Session 6: Digital forensics, computer and network forensics

Keynote Speaker: Mr. Danny Myburgh

Danny is the Managing Director of Cyanre - The Digital Forensic Lab and LexTrado EDS, which specializes in digital forensic investigations, data fraud trend analysis, Incident Response, e-discovery services and litigation support services. Danny established and commanded the SAPS National Computer Crime Investigation Unit from 2000 until 2002. Danny was the chairman of the Interpol African Working Party on Cyber Crime from 2002 until 2005 and represented Africa on the Interpol International Steering Committee on Cyber Crime. He was the chairperson of the Association of Certified Fraud Examiners Cyber Forensic Forum from 2011 to early 2016 and again since beginning of 2018. Danny was also a member of the BRICS Expert Working Group on Cyber Security aimed at enhancing the coordination on Cybersecurity issues between the BRICS States.

Keynote Speaker: **TBC**

Research Presentations

Paper 1: **TBC**

Paper 2: **TBC**

Paper 3: **TBC**

16:30 Closing Comments
17:00 and Awards

Summit Chairperson
Prof Manoj Maharaj

Academic Conference Chairperson
Dr Luci Abrahams

Editorial Committee
Prof M. Maharaj, Dr L. Abrahams, Dr K. Pillay, Dr. U. G. Singh

Steering Committee
Prof M. Maharaj, Dr L. Abrahams. Dr K. Pillay, Dr. U. G. Singh

Registration Fees		
Early registration Discount Fee	Before 20 February 2019	ZAR 5 500
Normal Registration	Before 31 April 2019	ZAR 6 000
Late Registration	Before 30 May 2019	ZAR 6 500

Call for Papers
The African Journal of Information and Communication (AJIC)
Issue 22: Thematic Issue: Perspectives in Cybersecurity

Important dates:

Important Dates	
Extended Abstract Submission	15 February 2018
Notification of acceptance for full paper or poster presentation	15 March 2019
Final Paper Submission	20 April 2019

Corresponding Editor:
Dr Luci Abrahams, Director, LINK Centre, University of the Witwatersrand, Johannesburg

Guest Editor:
Professor Manoj Maharaj, University of KwaZulu-Natal

Key submission guidelines

Original submissions (6000 words for full research-based conference papers; 3000 words for case studies and other types of contributions listed above) will be subject to double-blind peer review and must meet the publication standards and editorial requirements of *The African Journal of Information and Communication*. Authors are expected to implement appropriate revisions and extensions to the original submission, including revisions advised by the peer reviewers. Extended abstracts of the accepted papers for the AJIC will also be included in the peer reviewed conference proceedings. Please see the detailed submission guidelines available at http://www.wits.ac.za/linkcentre/ajic/submission-guidelines/

Referencing: The journal follows APA reference style. Authors can familiarise themselves with APA style at www.apastyle.org noting, in particular, the online tutorial and blog.

Papers may be submitted via: https://easychair.org/conferences/?conf=threat2019