Eighth Annual IFIP WG 11.9 International Conference on Digital Forensics
Sanlam Auditorium/Conference Center
University of Pretoria
Pretoria, South Africa
January 2 - 5, 2012

January 2, 2012 (Monday)

6:00pm - 9:30pm: Dinner
(Tuscan Barbecue, 78 George Storrar Drive, Groenkloof, Pretoria; Tel: +27 12 460 1238)
(Meet in hotel lobby @ 5:30pm for bus to restaurant)

January 3, 2012 (Tuesday)

7:00am - 8:30am: Breakfast (City Lodge Hotel, 407 Hilda Street, Hatfield, Pretoria; Tel: +27 12 423 5000)

8:45am - 9:00am: Welcoming Remarks
General Chair: Hein Venter, University of Pretoria, Pretoria, South Africa

9:00am - 10:00am: Keynote Lecture
Who Will Guard the Guardians?
David Klatzow
Forensic Practitioner, Cape Town, South Africa

10:00am - 11:00am: Session 1: The Digital Forensic Process - I
Chair: Gilbert Peterson, Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA

On the Creation of Reliable Digital Evidence
Carsten Rudolph, Aaron Alva, Barbara Endicott-Popovsky and John Christiansen
Fraunhofer Institute for Secure Information Technology, Darmstadt, Germany
University of Washington, Seattle, Washington, USA
Christiansen IT Law, Seattle, Washington, USA

The Explore, Investigate and Correlate Process for Information Visualization in Digital Forensics
Grant Osborne, Hannah Thinyane and Jill Slay
University of South Australia, Mawson Lakes, Australia

11:00am - 11:30am: Break

11:30am - 12:30pm: Session 2: The Digital Forensic Process - II
Chair: Jill Slay, University of South Australia, Mawson Lakes, Australia

Scalable Data Correlation
Vassil Roussev
University of New Orleans, New Orleans, Louisiana, USA

Using Performance Monitoring Software to Implement Digital Forensics Readiness
Francois Van Staden and Hein Venter
University of Pretoria, Pretoria, South Africa

12:30pm - 1:30pm: Lunch (Adler's Restaurant, University of Pretoria)

1:30pm - 3:00pm: Session 3: Forensic Techniques - I
Chair: Hein Venter, University of Pretoria, Pretoria, South Africa

Offline Forensic Tracking Using Multi-Model Trace Reconstruction
Saif Al-Kuwari and Stephen Wolthusen
Ministry of Foreign Affairs, Doha, Qatar
Royal Holloway, University of London, London, United Kingdom
Gjovik University College, Gjovik, Norway

January 3, 2012 (Tuesday) (continued)

Context-Based File Block Classification
Luigi Sportiello and Stefano Zanero
Polytechnic of Milan, Milan, Italy

Reasoning About Evidence Using Bayesian Networks
Hayson Tse, Kam-Pui Chow and Michael Kwan
University of Hong Kong, Hong Kong, China

3:00pm - 3:30pm: Break

3:30pm - 5:00pm: Session 4: Database Forensics
Chair: Stephen Wolthusen, Royal Holloway, University of London, London, United Kingdom

Reconstruction in Database Forensics
Oluwasola Fasan and Martin Olivier
University of Pretoria, Pretoria, South Africa

Application of Data Hiding Techniques in a Database Environment
Heloise Pieterse
University of Pretoria, Pretoria, South Africa

A Log File Digital Forensic Model
Himal Lalla, Tendai Sanyamahwe, Stephen Flowerday and Paul Tarwireyi
University of Fort Hare, East London, South Africa

6:00pm - 9:30pm: Dinner
(Moyo, Fountains Valley Road, Groenkloof Nature Reserve, Groenkloof, Pretoria; Tel: +27 12 341 5729)
(Meet in hotel lobby @ 5:30pm for bus to restaurant)

January 4, 2012 (Wednesday)

7:00am - 8:30am: Breakfast (City Lodge Hotel, 407 Hilda Street, Hatfield, Pretoria; Tel: +27 12 423 5000)

8:45am - 10:15am: Session 5: Cloud Forensics
Chair: Kam-Pui Chow, University of Hong Kong, Hong Kong, China

Finding File Fragments in the Cloud
Dirk Ras and Martin Olivier
University of Pretoria, Pretoria, South Africa

Cloud Forensics: Key Terms for Service Level Agreements
Keyun Ruan, Joshua James, Joe Carthy and Tahar Kechadi
University College Dublin, Dublin, Ireland

Isolation: Stuck in the Cloud
Waldo Delport and Martin Olivier
University of Pretoria, Pretoria, South Africa

10:15am - 10:30am: Break

10:30am - 11:30am: Session 6: Forensic Techniques - II
Chair: Martin Olivier, University of Pretoria, Pretoria, South Africa

Evidence Collection for Forensic Investigations of Peer-to-Peer Systems
Teja Myneedu and Yong Guan
Iowa State University, Ames, Iowa, USA

A Formal Analysis of the Foxy Peer-to-Peer Network Investigation
Ricci Ieong, Kam-Pui Chow and Pierre Lai
University of Hong Kong, Hong Kong, China

11:30am - 12:30pm: Lunch (Adler's Restaurant, University of Pretoria)

12:30pm - 6:30pm: Safari
(Rietvlei Nature Reserve, Rietvlei, Pretoria; Tel: +27 12 345 2274)
(Meet in the Conference Center parking lot @ 12:30pm for bus to Rietvlei Nature Reserve)

6:30pm - 9:30pm: Dinner
(Stone Cradle, Plot 72, Game Reserve Road, Doornkloof, Pretoria; Tel: +27 73 266 2555)

January 5, 2012 (Thursday)

7:00am - 8:30am: Breakfast (City Lodge Hotel, 407 Hilda Street, Hatfield, Pretoria; Tel: +27 12 423 5000)

8:45am - 10:15am: Session 7: Cell Phone Forensics
Chair: Vassil Roussev, University of New Orleans, New Orleans, USA

An Open Architecture for Digital Evidence Acquisition from Smart Phones
Lamine Aouad, Tahar Kechadi, Justin Trentesaux and An Le Khac
University College Dublin, Dublin, Ireland

Forensic Acquisition of Location Data from Android Smartphones
Felix Freiling, Sven Schmitt and Michael Spreitzenbarth
Friedrich-Alexander University, Erlangen-Nuremberg, Germany

MTK-Based Chinese Shanzai Mobile Phone Forensics
Junbin Fang, Zoe Jiang, Kam-Pui Chow, Siu-Ming Yiu, Lucas Hui and Gang Zhou
University of Hong Kong, Hong Kong, China
Harbin Institute of Technology, Shenzhen, China

10:15am - 10:45am: Break

10:45am - 11:45am: Session 8: Advanced Topics - I
Chair: Michael Kwan, University of Hong Kong, Hong Kong, China

XML Conversion of the Windows Registry for Forensic Processing and Distribution
Alex Nelson
Naval Postgraduate School, Monterey, California, USA

Improving Hash Sets in Digital Forensics
Marcelo Ruback, Bruno Hoelz and Celia Ralha
Brazilian Federal Police, Brasilia, Brazil
University of Brasilia, Brasilia, Brazil

11:45am - 1:30pm: Lunch (Adler's Restaurant, University of Pretoria)

1:30pm - 2:30pm: Session 9: Advanced Topics - II
Chair: Yong Guan, Iowa State University, Iowa, USA

Social Network Forensics: Tapping the Data Pool of Social Networks
Martin Mulazzani, Markus Huber and Edgar Weippl
Technical University of Vienna, Vienna, Austria
SBA Research, Vienna, Austria

Data Extraction from 3.5" Hard Disk Drives with Multiple Platters
Toshinobu Yasuhira, Kazuhiro Nishimura and Tomofumi Koida
National Police Agency, Tokyo, Japan

2:30pm - 3:00pm: Break

3:00pm - 4:00pm: Session 10: Advanced Topics - III
Chair: Sujeet Shenoi, University of Tulsa, Tulsa, Oklahoma, USA

Cracking Bitmap Steganography
Matthew Seyer, Josh Rios and Nicole Ibrahim
Oklahoma State University Institute of Technology, Okmulgee, Oklahoma, USA

Using Internal Depth to Aid Stereoscopic Image Splicing Detection
Mark-Anthony Fouche and Martin Olivier
University of Pretoria, Pretoria, South Africa