



**Fifteenth Annual IFIP WG 11.9 International Conference on Digital Forensics
Orlando, Florida
January 28-29, 2019**

January 27, 2019 (Sunday)

**06:00pm - 08:30pm: Dinner (High Tide Harry's, 4645 S. Semoran Boulevard; Tel: (407) 273-4422)
Meet in Hotel Lobby @ 05:15pm for Car Pooling**

January 28, 2019 (Monday)

06:30am - 07:45am: Breakfast (Holiday Inn Orlando East – UCF Area)

08:00am - 08:15am: Welcoming Remarks and Logistics

08:15am - 09:15am: Keynote Lecture

Title of Keynote

TBD

09:15am - 10:15am: Session 1: Digital Forensic Models

Chair: Gilbert Peterson, Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, USA

A Holistic Forensic Model for the Internet of Things

Lakshminarayana Sadineni, Emmanuel Pilli and Ramesh Babu

Malaviya National Institute of Technology, Jaipur, India

Implementing the Harmonized Model for Digital Evidence Admissibility Assessment

Albert Antwi-Boasiako and Hein Venter

e-Crime Bureau, Accra, Ghana

University of Pretoria, Pretoria, South Africa

10:15am - 10:30am: Break

10:30am - 12:00pm: Session 2: Mobile Device Forensics

Chair: Stefan Axelsson, Halmstad University, Halmstad, Sweden

Retrofitting Mobile Devices for Capturing Memory-Resident Malware Based on System Side-Effects

Zachary Grimmett, Jason Staggs and Sujeet Sheno

University of Tulsa, Tulsa, Oklahoma, USA

Classifying the Authenticity of Evaluated Smartphone Data

Heloise Pieterse, Martin Olivier and Renier van Heerden

University of Pretoria, Pretoria, South Africa

Council for Scientific and Industrial Research, Pretoria, South Africa

Nelson Mandela University, Port Elizabeth, South Africa

January 28, 2019 (Monday) (continued)

Design and Implementation of a Targeted Data Extraction System for Mobile Devices

Sudhir Aggarwal, Gokila Dorai, Umit Karabiyik, Tathagata Mukherjee, Nicholas Guerra, Manuel Hernandez, James Parsons, Khushboo Rathi, Hongmei Chi, Temilola Aderibigbe and Rodney Wilson

Florida State University, Tallahassee, Florida, USA

Purdue University, West Lafayette, Indiana, USA

University of Alabama, Huntsville, Alabama, USA

University of Tulsa, Tulsa, Oklahoma, USA

Sam Houston State University, Huntsville, Texas, USA

Florida A&M University, Tallahassee, Florida, USA

12:15pm - 01:15pm: Lunch (Golden Corral, 11731 E. Colonial Drive; Tel: (407) 902-2979)

01:30pm - 02:30pm: Session 3: Forensic Techniques I

Chair: Kam-Pui Chow, University of Hong Kong, Hong Kong, China

Analyzing Windows Subsystems for Linux Metadata to Detect Timestamp Forgery

Bhupendra Singh and Gaurav Gupta

Indian Institute of Information Technology, Pune, India

Ministry of Electronics and Information Technology, New Delhi, India

Creating a Map of User Data in NTFS to Improve File Carving

Martin Karresand, Asalena Warnqvist, David Lindahl, Stefan Axelsson and Geir Olav Dyrkolbotn

Norwegian University of Science and Technology, Gjøvik, Norway

Swedish National Forensic Centre, Linköping, Sweden

Swedish Defence Research Agency, Linköping, Sweden

02:30pm - 02:45pm: Break

02:45pm - 03:45pm: Session 4: Advanced Forensic Techniques

Chair: Martin Olivier, University of Pretoria, Pretoria, South Africa

Forensic Atomic Force Microscopy of Semiconductor Memory Arrays

Struan Gray and Stefan Axelsson

Halmstad University, Halmstad, Sweden

Norwegian University of Science and Technology, Gjøvik, Norway

Programmable Logic Controller Anomaly Detection Using Unsupervised Machine Learning

Chun-Fai Chan, Kam-Pui Chow, Cesar Mak and Raymond Chan

University of Hong Kong, Hong Kong, China

Singapore Institute of Technology, Singapore

03:45pm - 04:45pm: IFIP WG 11.9 Business Meeting/2020 IFIP WG 11.9 Conference

06:30pm - 08:30pm: Dinner (Smoky Bones, 303 N. Alafaya Trail; Tel: (407) 249-2009) Meet in Hotel Lobby @ 06:15pm for Car Pooling

January 29, 2019 (Tuesday)

06:30am - 08:30am: Breakfast (Holiday Inn Orlando East – UCF Area)

08:45am - 09:45am: Keynote Lecture

Case Studies in Invasive Digital Forensics

Sujeet Sheno, University of Tulsa, Tulsa, Oklahoma, USA

09:45am - 10:15am: Session 5: Image Forensics

Chair: Sudhir Aggarwal, Florida State University, Tallahassee, Florida, USA

Quick Response Encoding of Human Faces for Identity Fraud Detection

Shweta Singh, Saheb Chhabra, Garima Gupta, Monika Gupta and Gaurav Gupta

Maharishi Dayanand University, Rohtak, India,

Indian Institute of Information Technology, Pune, India

Ministry of Electronics and Information Technology, New Delhi, India

Miranda House, Delhi University, New Delhi, India

Defence Institute of Advanced Technology, Pune, India

A Neural-Network-Based Method for Fake Colorized Image Detection

Yuze Li, Yaping Zhang, Liangfu Lu, Yongheng Jia and Jingcheng Liu

Tianjin University, Tianjin, China

10:15am - 10:30am: Break

10:30am - 12:00pm: Session 6: Forensic Techniques II

Chair: Gaurav Gupta, Ministry of Electronics and Information Technology, New Delhi, India

Timeline Visualization of Keywords

Wynand van Staden

University of South Africa, Johannesburg, South Africa

Brute Forcing Vendor Defined Messages in the USB Power Delivery Protocol

Gunnar Alendal, Stefan Axelsson and Geir Olav Dyrkolbotn

Halmstad University, Halmstad, Sweden

Norwegian University of Science and Technology, Gjøvik, Norway

Determining the Forensic Data Requirements for Detecting Hypervisor Attacks

Changwei Liu, Anoop Singhal, Ramaswamy Chandramouli and Duminda Wijesekera

George Mason University, Fairfax, Virginia, USA

National Institute of Standards and Technology, Gaithersburg, Maryland, USA

12:15pm - 01:15pm: Lunch (Golden Corral, 11731 E. Colonial Drive; Tel: (407) 902-2979)