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
Current Issues in Law Enforcement Digital Evidence
Investigator Sara Klein, Digital Forensics Unit, Seminole County Sheriff’s Office, Sanford, Florida, USA

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 Shenoi
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: Raymond Chan, Singapore Institute of Technology, Singapore

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, Gjovik, Norway
Swedish National Forensic Centre, Linkoping, Sweden
Swedish Defence Research Agency, Linkoping, 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, Gjovik, 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 (Smokey Bones, 303 N. Alafaya Trail; Tel: (407) 249-2009)
Meet in Hotel Lobby @ 06:15pm for Car Pooling
January 29, 2019 (Tuesday)

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

08:00am - 09:15am: Keynote Lecture
Case Studies in Invasive Digital Forensics
Sujeet Shenoi, University of Tulsa, Tulsa, Oklahoma, USA

09:15am - 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, Gjovik, 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)