



**Thirteenth Annual IFIP WG 11.9 International Conference on Digital Forensics
Orlando, Florida
January 30 – February 1, 2017**

January 29, 2017 (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 30, 2017 (Monday)

06:30am - 08:20am: Breakfast (Holiday Inn Orlando East – UCF Area)

08:20am - 08:30am: Welcoming Remarks and Logistics

08:30am - 09:30am: Keynote Lecture

A Scientific Approach to Fighting Web-Based Cyber Crime
Tyler Moore, University of Tulsa, Tulsa, Oklahoma, USA

09:30am - 10:30am: Session 1: Digital Forensic Examinations

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

Establishing Findings in Digital Forensic Examinations

Oluwasayo Oyelami and Martin Olivier
University of Pretoria, Pretoria, South Africa

A Model for Digital Evidence Admissibility Assessment

Albert Antwi-Boasiako and Hein Venter
e-Crime Bureau, Accra, Ghana
University of Pretoria, Pretoria, South Africa

10:30am - 10:45am: Break

10:45am - 11:45am: Session 2: Malware Forensics

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

Categorizing Mobile Device Malware Based on System Side-Effects

Zachary Grimmett and Sujeet Shenoj
University of Tulsa, Tulsa, Oklahoma, USA

A Behavioral-Based Approach for Detecting Malware

Rayan Mosli, Rui Li, Bo Yuan and Yin Pan
Rochester Institute of Technology, Rochester, New York, USA
King Abdulaziz University, Jeddah, Saudi Arabia

11:45am - 01:00pm: Lunch (Golden Corral, 11731 E. Colonial Drive; Tel: (407) 902-2979)

January 30, 2017 (Monday) (continued)

01:15pm - 02:15pm: Session 3: Forensic Analysis Methodologies

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

A Tactical Forensic Analysis Methodology for Software Defined Networking Switches

Tommy Chin and Kaiqi Xiong

Rochester Institute of Technology, Rochester, New York, USA

University of South Florida, Tampa, Florida, USA

Forensic Analysis of an Amazon Fire TV Stick

Logan Morrison, Huw Read, Iain Sutherland and Konstantinos Xynos

Norwich University, Northfield, Vermont, USA

Noroff University College, Kristiansand, Norway

DarkMatter, Dubai, United Arab Emirates

02:15pm - 02:45pm: Break

02:45pm - 03:15pm: Session 4: Forensic Techniques I

Chair: Anoop Singhal, National Institute of Standards and Technology, Gaithersburg, Maryland, USA

Insider Threat Detection Using Time-Series-Based Raw Disk Forensic Analysis

Nicole Beebe, Lishu Liu and Zi Ye

University of Texas at San Antonio, San Antonio, Texas, USA

03:15pm - 04:15pm: IFIP WG 11.9 Business Meeting

06:00pm - 08:30pm: Dinner (Smoky Bones, 303 N. Alafaya Trail; Tel: (407) 249-2009)

Meet in Hotel Lobby @ 05:45pm for Car Pooling

January 31, 2017 (Tuesday)

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

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

It's an Obstacle Course, Not a Race – Your Future in Digital Forensics

Mark Pollitt, Digital Evidence Professional Services, Ellicott City, Maryland, USA

09:45am - 10:15am: Session 5: Fraud Detection

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

Detecting Innovative Criminal Schemes Involving Fraudulent Bank Checks

Saheb Chhabra, Gaurav Gupta and Monika Gupta

Indraprastha Institute of Information Technology, New Delhi, India

Ministry of Electronics and Information Technology, New Delhi, India

10:15am - 10:30am: Break

10:30am - 11:30am: Session 6: Mobile Device Forensics

Chair: Stefan Axelsson, Norwegian University of Science and Technology, Gjøvik, Norway

Authentic Smartphone Evidence

Heloise Pieterse, Martin Olivier and Renier van Heerden

Council of Scientific and Industrial Research, Pretoria, South Africa

University of Pretoria, Pretoria, South Africa

Component-API Linkage for Android Malware Detection

Zhaoheng Yang, Frank Breitingner and Ibrahim Baggili

University of New Haven, New Haven, Connecticut, USA

11:30am - 01:00pm: Lunch (Golden Corral, 11731 E. Colonial Drive; Tel: (407) 902-2979)

01:15pm - 02:15pm: Session 7: Forensic Techniques II

Chair: Al Holt, National Security Agency, Fort Meade, Maryland, USA

Significant Data Region Identification and Forensic Analysis of Large Storage Drives Using the k-Means Algorithm

Nitesh Bharadwaj and Upasna Singh

Defence Institute of Advanced Technology, Pune, India

Semantic Video Carving for Digital Forensics Using Perceptual Hash and Optical Flow

Junbin Fang, Sijin Li, Guikai Xi, Zoe Jiang, Siu-Ming Yiu, Liyang Yu, Xuan Wang, Qi Han and Qiong Li

Jinan University, Guangzhou, China

Harbin Institute of Technology Shenzhen, China

University of Hong Kong, Hong Kong, China

02:15pm - 02:30pm: Break

02:30pm - 04:00pm: Session 8: Novel Approaches

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

Anti-Forensic Threat Modeling

Bruno Hoelz and Marcelo Maues

Centro de Pericias Cientificas Renato Chaves, Maraba, Brazil

National Institute of Criminalistics, Brasilia, Brazil

A Collusion Attack on the Lightning Network – Implications for Forensics

Dmytro Piatkivskyi, Stefan Axelsson and Mariusz Nowostawski

Norwegian University of Science and Technology, Gjøvik, Norway

January 30, 2017 (Tuesday) (continued)

Using Personal Information for Targeted Attacks in Grammar-Based Probabilistic Password Cracking

Shiva Houshmand and Sudhir Aggarwal

Southern Illinois University, Carbondale, Illinois, USA

Florida State University, Tallahassee, Florida, USA

06:00pm - 08:30pm: Dinner (Miller's Ale House, 641 N. Alafaya Trail; Tel: (407) 736-0333)
Meet in Hotel Lobby @ 05:45pm for Car Pooling

February 1, 2017 (Wednesday)

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

08:45am - 10:15am: Session 9: Forensic Techniques III

Chair: Mark Pollitt, Digital Evidence Professional Services, Ellicott City, Maryland, USA

Applying Machine Learning to Programmable Logic Controller Event Detection and Logging

Kwai-Keung Yau and Kam-Pui Chow

University of Hong Kong, Hong Kong, China

Automated File Provenance Collection

Ryan Good and Gilbert Peterson

Air Force Institute of Technology, Wright-Patterson AFB, Ohio, USA

Identifying Evidence for Implementing a Cloud Forensic Analysis Framework

Changwei Liu, Anoop Singhal and Duminda Wijesekera

George Mason University, Fairfax, Virginia, USA

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

11:00am - 12:15pm: Lunch (Golden Corral, 11731 E. Colonial Drive; Tel: (407) 902-2979)