



**Fourteenth Annual IFIP WG 11.9 International Conference on Digital Forensics
The Lalit, Barakhamba Avenue, Connaught Place, New Delhi, India
January 3-5, 2018**

January 2, 2018 (Tuesday)

07:15pm - 09:00pm: Dinner (Farzi Café, E-38/39, First Floor, Connaught Place, New Delhi; paid participants only)
Meet in the Hotel Lobby @ 06:45pm for transportation to the restaurant

January 3, 2018 (Wednesday)

07:30am - 08:45am: Breakfast (The Lalit, Barakhamba Avenue, Connaught Place; hotel guests only)

09:00am - 09:10am: Welcoming Remarks and Logistics

09:10am - 10:10am: Keynote Lecture

Keynote Lecture

Gulshan Rai, Cyber Security Coordinator, National Security Coordination Secretariat, New Delhi, India

10:10am - 11:10am: Session 1: Themes and Issues

Chair: Somitra Sanadhya, Indraprastha Institute of Information Technology Delhi, New Delhi, India

Case Studies and Challenges in Internet of Things Forensics

Saad Alabdulsalam, Kevin Schaefer, Arie Kouwen and Nhien An Le Khac

University College Dublin, Dublin, Ireland

German Federal Police, Stuttgart, Germany

Dutch Police, Amsterdam, The Netherlands

Measuring the Probative Value of Evidence in Digital Forensic Triage

Richard Overill and Kam-Pui Chow

King's College London, London, United Kingdom

University of Hong Kong, Hong Kong, China

11:10am - 11:30am: Break

11:30am - 01:00pm: Session 2: Network Forensics I

Chair: Duminda Wijesekera, George Mason University, Fairfax, Virginia, USA

A Real-Time Collaborative Network Forensic Scheme for Evidence Analysis

Nour Moustafa and Jill Slay

University of New South Wales, Canberra, Australia

Entropy-Based Prediction of Network Protocols in the Forensic Analysis of DNS Tunnels

Irvin Homem, Panagiotis Papapetrou and Spyridon Dosis

Stockholm University, Stockholm, Sweden

KTH Royal Institute of Technology, Stockholm, Sweden

Traffic Classification and Application Identification in Network Forensics

Jan Pluskal, Ondrej Lichtner and Ondřej Ryšavý

Brno University of Technology, Brno, Czech Republic

January 3, 2018 (Wednesday) (continued)

01:00pm - 02:10pm: Lunch (The Lalit, Barakhamba Avenue, Connaught Place)

02:10pm - 02:30pm: Sponsor Presentation

02:30pm - 04:00pm: Session 3: Forensic Techniques I

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

Challenges, Opportunities and a Framework for Web Environment Forensics

Mike Mabey, Adam Doupé, Ziming Zhao and Gail-Joon Ahn
Arizona State University, Tempe, Arizona, USA

Google Drive Client Artifacts in a macOS Sierra

Swasti Bhushan Deb
IBM India, Bangalore, India

Anti-Forensic Capacity and Detection Rating of Hidden Data in the ext4 Filesystem

Thomas Göbel and Harald Baier
Darmstadt University of Applied Sciences, Darmstadt, Germany

04:00pm - 05:00pm: Break and Poster Session

Chair: Robin Verma, Indraprastha Institute of Information Technology Delhi, New Delhi, India

A Dynamic Taint Analysis Tool for Android App Forensics

Yong Guan, Zhen Xu, Chen Shi and Zhenqiang Gong
Iowa State University, Ames, Iowa, USA

Forensic Analysis of a DVR Hard Disk

Chundur Prasad
Central Forensic Science Laboratory, Hyderabad, India

Solid State Drive Forensics

Santosh Khadsare
Cyber Security and Digital Forensics Practice, New Delhi, India

Forensics-as-a-Service

Raksha Khandelwal and Reetika Rastogi
Mody University, Sikar, India

Multimodal and Continuous Smartphone User Authentication: Applications in Forensics and e-Governance

Himanshu Gangwar and Sachin Vashistha
Kurukshetra University, Kurukshetra, India

Quick Response Codes for Scalable and Secure Forensic Solutions

Yansi Keim and Keertika Gangwar
Indira Gandhi Delhi Technical University for Women, New Delhi, India

05:00pm - 05:30pm: Business Meeting

07:15pm - 09:00pm: Dinner (Chew – Pan Asian Café, M-16, 1st Floor, Outer Circle, Connaught Place, New Delhi; paid participants)

Meet in the Hotel Lobby @ 06:45pm for transportation to the restaurant

January 4, 2018 (Thursday)

07:30am - 08:45am: Breakfast (The Lalit, Barakhamba Avenue, Connaught Place; hotel guests only)

09:00am - 10:00am: Session 4: Cloud Forensics

Chair: Jill Slay, University of New South Wales, Canberra, Australia

A Layered Graphical Model for Cloud Forensics and Mission Attack Impact Analysis

Changwei Liu, Anoop Singhal and Duminda Wijesekera

George Mason University, Fairfax, Virginia, USA

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

A Taxonomy of Cloud Endpoint Forensic Tools

Anand Mishra, Emmanuel Pilli and Mahesh Govil

Malaviya National Institute of Technology, Jaipur, India

10:00am - 11:00am: Session 5: Industrial Control System Forensics

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

Enhancing Forensic and Abnormality Detection Capabilities for Programmable Logic Controllers

Chun-Fai Chan, Kam-Pui Chow, Siu-Ming Yiu and Kwai-Keung Yau

University of Hong Kong, Hong Kong, China

Effective Logging System for Digital Forensic Readiness of Siemens Programmable Logic Controllers

Kwai-Keung Yau, Kam-Pui Chow and Siu-Ming Yiu

University of Hong Kong, Hong Kong, China

11:00am - 11:30am: Break

11:30am - 01:00pm: Session 6: Network Forensics II

Chair: Yong Guan, Iowa State University, Ames, Iowa, USA

Enabling the Non-Expert Analysis of Large Volumes of Intercepted Network Traffic

Erwin Van Wiel, Mark Scanlon and Nhien An Le Khac

Dutch Police, Amsterdam, The Netherlands

University College Dublin, Dublin, Ireland

Network Forensics with Snort – Collecting Evidence Using Constrained Approximate Search

Ambika Shrestha Chitrakar and Slobodan Petrovic

Norwegian University of Science and Technology, Gjøvik, Norway

Hashing Unordered and Incomplete Network Streams on the Fly

Chao Zheng, Xiang Li, Qingyun Liu, Yong Sun and Binxing Fang

Institute of Information Engineering, Chinese Academy of Sciences, Beijing, China

University of Electronics Science and Technology of China, Guangdong, China,

01:00pm - 02:10pm: Lunch (The Lalit, Barakhamba Avenue, Connaught Place)

02:10pm - 02:30pm: Sponsor Presentation

02:30pm - 04:00pm: Session 7: Forensic Techniques II

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

Obtaining Valuable Precision-Recall Trade-Offs During Fuzzy Searches of Large E-Mail Corpora

Kyle Porter and Slobodan Petrovic

Norwegian University of Science and Technology, Gjøvik, Norway

Recovery of Forensic Artifacts from Deleted Jump Lists

Pankaj Sharma, Rajender Nath, Bhupendra Singh and Azad Singh

Chitkara University, Rajpura, India

Kurukshetra University, Kurukshetra, India

Defence Institute of Advanced Technology, Pune, India

National Institute of Technology, Hamirpur, India

January 4, 2018 (Thursday) (continued)

Detecting the Leakage Source of Hard Copy Documents

Jijnasa Nayak, Saheb Chhabra, Gaurav Gupta, Monika Gupta and Garima Gupta

National Institute of Technology, Rourkela, India

Indraprastha Institute of Information Technology Delhi, New Delhi, India

Ministry of Electronics and Information Technology, New Delhi, India

04:00pm - 04:30pm: Break

04:30pm - 05:30pm: Session 8: Cell Phone and Embedded Device Forensics

Chair: Richard Overill, King's College London, London, United Kingdom

Forensic Analysis of Steganography Apps in Android Devices

Wenhao Chen, Yangxiao Wang, Yong Guan, Jennifer Newman, Li Lin and Stephanie Reinders

Iowa State University, Ames, Iowa, USA

Automated Vulnerability Detection in Embedded Systems

Danjun Liu, Yong Tang and Baosheng Wang

National University of Defense and Technology, Changsha, China

07:15pm - 09:00pm: Dinner (Ardor 2.1, N 55-56 & 88/89, Outer Circle, Connaught Place, New Delhi; paid participants only)

Meet in the Hotel Lobby @ 06:45pm for transportation to the restaurant

January 5, 2018 (Friday)

07:30am - 08:45am: Breakfast (The Lalit, Barakhamba Avenue, Connaught Place; hotel guests only)

09:00am – 10:30am: Keynote Lecture

Case Studies in Invasive Embedded Device Forensics: Evidence Extraction and Firmware Verification
Sujeet Shenoï, F.P. Walter Professor of Computer Science and Professor of Chemical Engineering
University of Tulsa, Tulsa, Oklahoma, USA

10:30am - 11:00am: Break

11:00am - 12:30pm: Keynote Lecture

Digitized Document Fraud: New Directions and Opportunities
Gaurav Gupta, Joint Director and Scientist D
Ministry of Electronics and Information Technology, New Delhi, India

12:30pm - 01:20pm: Lunch (The Lalit, Barakhamba Avenue, Connaught Place)

01:30pm - 05:30pm: Guided Tour of New Delhi

Meet in the Hotel Lobby @ 01:20pm to catch the tour bus

01:30pm - 03:00pm: Invited Lecture for Law Enforcement

Why are Critical Infrastructure Assets so Easy to Attack?
Sujeet Shenoï, F.P. Walter Professor of Computer Science and Professor of Chemical Engineering
University of Tulsa, Tulsa, Oklahoma, USA

3:00pm - 03:30pm: Break

03:30pm - 04:30pm: Invited Lecture for law Enforcement

Lecture Title
Lecturer Name

04:30pm - 05:00pm: Invited Lecture for Law Enforcement

Lecture Title
Lecturer Name