



Twelfth Annual IFIP WG 11.9 International Conference on Digital Forensics
The Lalit, Barakhamba Avenue, Connaught Place, New Delhi, India
January 4-6, 2016

January 3, 2016 (Sunday)

07:15pm - 09:00pm: Dinner (Veda, H-27, Outer Circle, Connaught Place, New Delhi; paid participants only)
Meet in the Hotel Lobby @ 06:45pm for transportation to the restaurant

January 4, 2016 (Monday)

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

Future Crimes and the New Rules of the Game

Capt. Raghu Raman, Group President of Risk, Security and New Ventures, Reliance Industries, Mumbai, India
Former CEO, National Intelligence Grid, Ministry of Home Affairs, Government of India, New Delhi, India

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

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

On a Scientific Theory of Digital Forensics

Martin Olivier

University of Pretoria, Pretoria, South Africa

A Framework for Understanding and Assessing the Core Capability of a Digital Forensics Organization

Ahmed Almarzooqi and Andrew Jones

De Montfort University, Leicester, United Kingdom

11:10am - 11:30am: Break

11:30am - 01:00pm: Session 2: Mobile and Embedded Device Forensics

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

Vehicle Entertainment System Forensics: A Case Study of a Volkswagen Automobile

Daniel Jacobs and Nhien An Le Khac

Rotterdam Police, Rotterdam, The Netherlands

University College Dublin, Dublin, Ireland

A Forensic Methodology for the Analysis of a Nintendo 3DS

Huw Read, Elizabeth Thomas, Iain Sutherland, Konstantinos Xynos and Mikhaila Burgess

University of South Wales, Pontypridd, United Kingdom

Coalfire Systems, Manchester, United Kingdom

Noroff University College, Kristiansand, Norway

AMExtractor: A Widely Applicable Tool for Volatile Memory Acquisition from Android Devices

Haiyu Yang, Jianwei Zhuge, Wei Liu and Huiming Liu

Tsinghua University, Beijing, China

January 4, 2016 (Monday) (continued)

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

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

02:30pm - 04:00pm: Session 3: Knowledge Discovery in Digital Forensics

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

Hierarchical Classification Modeling for Data and File Type Classification

Nicole Beebe, Lishu Liu and Minghe Sun

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

Profiling a Flash Mob in a Discussion Forum in the Post Umbrella Movement Era

Vivien Chan, Kam-Pui Chow and Raymond Chan

University of Hong Kong, Hong Kong, China

Optimizing Short Text Sentiment Analysis in Mobile Device Forensics

Pelumi Aboluwarin, Panagiotis Andriotis, Atsuhiko Takasu and Theo Tryfonas

University of Bristol, Bristol, United Kingdom

National Institute of Informatics, Tokyo, Japan

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

Chair: Panagiotis Andriotis, University of Bristol, Bristol, United Kingdom

*A Second Pre-Image and Collision Attack on *sdhash* Similarity Hashing*

Monika Singh, Donghoon Chang and Somitra Sanadhya

Indraprastha Institute of Information Technology Delhi, New Delhi, India

A Case Study to Understand CryptoLocker Ransomware

Adarsh Agarwal and Sandeep Koul

Accenture Services, Bangalore, India

Proactive Forensic Data Collection for SaaS Consumers

Yansi Keim and Sonali Tyagi

Indira Gandhi Delhi Technical University for Women, New Delhi, India

Forensic Investigations in Cloud Computing Environments

Anand Kumar Mishra, Emmanuel Pilli and Mahesh Govil

Malaviya National Institute of Technology, Jaipur, India

Data Broker Scams that Lead to Advanced Persistent Threats

Mona Nandwani

Indira Gandhi Delhi Technical University for Women, New Delhi, India

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

07:15pm - 09:00pm: Dinner (Barbecue Nation, Block N, Outer Circle, Connaught Place, New Delhi; paid participants only)

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

January 5, 2016 (Tuesday)

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

09:00am - 09:35am: Keynote Lecture

Cyber Security

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

09:35am - 10:10am: Keynote Lecture

Imperatives of Building Digital Forensics as a Profession in India

Nandkumar Saravade, CEO, Data Security Council of India, New Delhi, India

10:10am - 11:10am: Session 4: Cloud Forensics

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

Forensic Acquisition of Cloud Drives

Vassil Roussev, Andres Barreto and Irfan Ahmed

University of New Orleans, New Orleans, Louisiana, USA

Cloud Storage Ecosystem: A New Business Model for Internet Piracy?

Ching-Bon Chan, Kam-Pui Chow, Vivien Chan and Michael Kwan

University of Hong Kong, Hong Kong, China

11:10am - 11:30am: Break

11:30am - 01:00pm: Session 5: Forensic Techniques and Tools

Chair: Vassil Roussev, University of New Orleans, New Orleans, Louisiana, USA

Secure Deletion of Solid State Drives and Countermeasures

Bhupendra Singh, Ravi Saharan, Gaurav Somani and Gaurav Gupta

Defence Institute of Advanced Technology, Pune, India

Central University of Rajasthan, Bandar Sindri, India

Department of Electronics and Information Technology, New Delhi, India

Advanced Automated Disk Investigation Toolkit

Umit Karabiyik and Sudhir Aggarwal

Sam Houston State University, Huntsville, Texas, USA

Florida State University, Tallahassee, Florida, USA

Generalizations to Travel Time Consistency Checking

Fred Cohen and Don Cohen

Management Analytics, Pebble Beach, California, USA

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

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

02:30pm - 04:00pm: Session 6: Internet Usage Artifacts

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

Reconstructing Tabbed Browser Sessions Using Metadata Associations for Multi-Threaded Browser Implementations

Sriram Raghavan and S.V. Raghavan

University of Melbourne, Melbourne, Australia

Indian Institute of Technology Madras, Chennai, India

ForenRIA: The Reconstruction of User-Interactions from HTTP Traces for Rich Internet Applications

Sara Baghbanzadeh, Salman Hooshmand, Gregor Bochmann, Guy-Vincent Jourdan, Seyed Mirtaheri, Muhammad Faheem and

Iosif Onut

University of Ottawa, Ottawa, Canada

IBM, Ottawa, Ontario, Canada

January 5, 2016 (Tuesday) (continued)

Extracting Forensic Artefacts from Windows 10 Jump Lists

Bhupendra Singh and Upasna Singh

Defence Institute of Advanced Technology, Pune, India

04:00pm - 04:30pm: Break

04:30pm - 05:30pm: Session 7: Image Forensics

Chair: Nicole Beebe, University of Texas at San Antonio, San Antonio, Texas, USA

Enhancing Image Forgery Detection Techniques Using 2-D Cross Products

Songpon Teerakanok and Tetsutaro Uehara

Ritsumeikan University, Shiga, Japan

On the Forensic Authentication of Bank Checks

Rajesh Kumar

Institute of Forensic Science, Aurangabad, India

07:15pm - 09:00pm: Dinner (Ambrosia Bliss, L 51-54, Outer Circle, Connaught Place, New Delhi; paid participants only)

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

January 6, 2016 (Wednesday)

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

09:00am - 10:30am: Session 8: Digital Forensics and Privacy

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

Forensic Analysis of Mobile Ads to Identify Users

Jayaprakash Govindaraj, Robin Verma and Gaurav Gupta

Infosys Technologies, Bangalore, India

Indraprastha Institute of Information Technology Delhi, New Delhi, India

Department of Electronics and Information Technology, New Delhi, India

Effects of Power Users' Data Privacy Measures on Mobile Device Investigations

Panagiotis Andriotis and Theo Tryfonas

University of Bristol, Bristol, United Kingdom

Perceptions of Data Privacy during Digital Forensic Investigations in India

Robin Verma, Jayaprakash Govindaraj and Gaurav Gupta

Indraprastha Institute of Information Technology Delhi, New Delhi, India

Infosys Technologies, Bangalore, India

Department of Electronics and Information Technology, New Delhi, India

11:00am - 11:30am: Break

11:30am - 12:30pm: Session 9: Forensic Models and Techniques

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

A Probabilistic Network Forensic Model for Evidence Analysis

Changwei Liu, Anoop Singhal and Duminda Wijesekera

George Mason University, Fairfax, Virginia, USA

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

Forensic Investigations of Facebook and Twitter Metro Apps in Windows 8 Environments

Swasti Bhushan Deb

Kolkata Cyber Laboratory, Data Security Council of India, Kolkata, 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

January 7, 2016 (Thursday)

06:00pm - 09:00pm: Guided Tour of the Taj Mahal in Agra (\$140 per head)

Meet in the Hotel Lobby @ 05:50am to catch the tour bus