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, Atsuhiro 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 Shenoi, 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