



MIST 2017 Program (October 30, 2017)

07:30-09:00 Registration

08:40-08:45 Welcome Message

General Co-Chair: Dr. Ilsun You (Soonchunhyang University, Republic of Korea)

08:45-10:00 Session 1 - Insider Threat Technologies 1

Session Chair: Dr. Hassan Takabi (University of North Texas)

- Insider Threat Event Detection in User-System Interactions
Pablo Moriano (Indiana University), Jared Pendleton (Cisco Systems, Inc.), Steve Rich (Cisco Systems, Inc.), and Jean Camp (Indiana University)
- Using VisorFlow to Control Information Flow without Modifying the Operating System Kernel or its Userspace
Matt Shockley (United States Military Academy), Chris Maixner (United States Military Academy), Ryan Johnson (United States Military Academy), Mitch Deridder (United States Military Academy), and W. Michael Petullo (United States Military Academy)
- Complexity of Insider Attacks to Databases
Gökhan Kul (University at Buffalo), Shambhu Upadhyaya (University at Buffalo), and Andrew Hughes (University at Buffalo)

10:00-10:20 Coffee Break

10:20-12:00 Session 2 - Insider Threat Technologies 2

Session Chair: Dr. W. Michael Petullo (United States Military Academy)

- A Multi-Modal Neuro-Physiological Study of Malicious Insider Threats
Yassir Hashem (University of North Texas), Hassan Takabi (University of North Texas), Ram Dantu (University of North Texas), and Rodney Nielsen (University of North Texas)
- MalicIT: A Dataset of Malicious Insider Threat Behavior Based on a Gamified Competition
Athul Harilal (Singapore University of Technology and Design), Flavio Toffalini (Singapore University of Technology and Design), John Castellanos (Singapore University of Technology and Design), Juan Guarnizo (Singapore University of Technology and Design), Ivan Homoliak (Singapore University of Technology and Design), and Martin Ochoa (Singapore University of Technology and Design)
- MemTri: A Memory Forensics Triage Tool using Bayesian Network and Volatility
Antonis Michalas (University of Westminster) and Rohan Murray (University of Westminster)
- A Subliminal Channel in EdDSA: Information Leakage with High-Speed Signatures
Alexander Hartl (TU Wien), Robert Annessi (TU Wien) and Tanja Zseby (TU Wien)

12:00-14:00 Lunch Break

14:00-15:00 Session 3 - Keynote Address

Session Chair: Dr. Ilsun You (Soonchunhyang University, Republic of Korea)

- Research Challenges and Opportunities in Big Digital Forensic Data
Kim-Kwang Raymond Choo (The University of Texas at San Antonio)

15:00-15:30 Coffee Break

15:30-17:00 Session 4 - Short Paper Session

Session Chair: Dr. Kim-Kwang Raymond Choo (The University of Texas at San Antonio)

- Socializing Drones for Inter-Service Operability in Ultra-Dense Wireless Networks using Blockchain
Vishal Sharma (Soonchunhyang University), Ilsun You (Soonchunhyang University), and Gökhan Kul (University at Buffalo)
- Combining Homomorphic Encryption with Trusted Execution Environment: a demonstration with Paillier encryption and SGX
Nir Drucker (University of Haifa) and Shay Gueron (University of Haifa)
- Behavior Prediction over Summarized Network Activities
Shih-Chieh Su (Qualcomm)
- Insider Threat Mitigation Using Moving Target Defense and Deception
Hassan Takabi (University of North Texas) and Haadi Jafarian (University of Colorado Denver)
- Criminal Minds: Reasoning Prime Suspect in Russian Hacking Scandal by Perspective of Insiders
Mookyu Park (Korea University), Junwoo Seo (Korea University), Kyoungmin Kim (Korea University), Moosung Park (Agency for Defense Development) and Kyungho Lee (Korea University)

In cooperation with

