



INVITED SESSION SUMMARY

Title of Session: Cybercrime Investigation and Digital Forensics
Name, Title, and Affiliation of Chair: Fuching Tsai, Assistant Professor (Central Police University, Taiwan) Francesco Mercaldo, Dr. (National Research Council of Italy (CNR), Pisa, Italy)
Co-chaired by Chih Hung Shih, Assistant Professor (Central Police University, Taiwan) Chi Cheng Yang, Instructor (Central Police University, Taiwan) Da-Yu Kao, Professor (Central Police University, Taiwan)
Details of Session (including aim and scope): Cyber activity has become an essential part of our life. The hacking threats of cybercrime are becoming more sophisticated than ever. The challenges in cybercrime investigations have created a strong need for digital forensics. Digital forensics aims to identify, collect, examine, analyze, and present digital evidence to prosecute cybercriminals in the court of law. This session explores the challenges researchers and practitioners face in the area of cybercrime investigations and digital forensics. Attendees will benefit from each other's resources and expertise in the domain. The session covers, but is not limited to, the following topics: 1) Cybercrime Investigation: Cybercrime and: terrorism, criminology, challenges and countermeasures, international laws, scene investigation, laws and procedures, international attacks, and response. 2) Digital Forensics: Digital forensics and: challenges and countermeasures, Big data, Network, Systems, Application, Cloud, IoT, Drone, Data recovery. 3) Big Data Approach for Cybercrime Investigation: Network packets on the intranet, Timestamp metadata of digital objects, Automated data extraction, Anomalies detection, Machine-learning based model, Timeline reconstruction.
Training for Cybercrime Investigation and Digital Forensics Presenter: Dr. Dayu Kao Skill Level: Intermediate/Advanced In this technical class, the presenter will dig into different types of cybercrime cases. Learn strategies for cybercrime investigation and digital forensics. This training course is open to all conference delegates and included in the conference fee.
Main Contributing Researchers / Research Centres / PC members: Shuyuan Mary Ho (Florida State University, USA) Vacius Jusas (Kaunas University of Technology, Lithuania) Da-Yu Kao (Central Police University, Taiwan) Chien-Ling Lin (Criminal Investigation Bureau, Taiwan) Cheng-Lung Lee (Taiwan Police College, Taiwan) Esmiralda Moradian (Stockholm University, Sweden) Oliver Popov (Stockholm University, Sweden) Chih Hung Shih (Central Police University, Taiwan) Fuching Tsai (Central Police University, Taiwan) Chi Cheng Yang (Central Police University, Taiwan)
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