INVITED SESSION SUMMARY

Title of Session: Cybercrime Investigation and Digital Forensics
Name, Title and Affiliation of Chair: Da-Yu Kao, Associate Professor (Central Police University, Taiwan) **Co-chaired by** Fuching Tsai, Assistant Professor (Central Police University, Taiwan) Michael Soltys, Professor (California State University Channel Islands, USA)
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 faced by researchers and practitioners 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. **Instructions for Authors** Papers must conform to the requirements detailed in the "Instructions to Authors" placed on the Conference Web Site (http://kes2019.kesinternational.org/submission.php) All papers must be presented by one of the authors, who must be registered in advance. Authors must submit paper through PROSE online paper submission system. (http://kes2019.kesinternational.org/prose.php) **Important date** Submission deadline of paper: ~~31 March~~ 30 April 2019. Notification of paper: ~~30 April~~ 15 May 2019. Deadline of camera-ready paper: ~~20 May~~ 1 June 2019 Conference Date: 4-6 September 2019
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 your conference fee.
Main Contributing Researchers / Research Centres (tentative, if known at this stage): Session chair: Da-Yu Kao (Central Police University, Taiwan), Fuching Tsai (Central Police University, Taiwan), and Michael Soltys (California State University Channel Islands, USA) PC members: Shuyuan Mary Ho (Florida State University, USA) and Chih Hung Shih (Central Police University, Taiwan)
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