ACM CPSS’17 Program
3rd ACM Cyber-Physical System Security Workshop
Abu Dhabi, UAE, April 2, 2017
(in conjunction with ACM AsiaCCS’17)
http://jianying.space/cpss/CPSS2017/

09:00 – 09:10  Workshop Opening

09:10 – 10:10  Keynote 1  Session Chair: Ernesto Damiani
Prof. Bashar Nuseibeh (The Open University, UK & Lero, Ireland)
On the Disappearing Boundary between Digital, Physical, and Social Spaces – Who, what, where and when?

10:10 – 10:50  Session 1: Threat Modeling for CPS
Session Chair: Konstantinos Markantonakis
• Alexander Winnicki, Marina Krotorff and Dieter Gollmann. Cyber-Physical System Discovery – Reverse Engineering Physical Processes
• Nektarios Georgios Tsoutsos, Homer Gamil and Michail Maniatakos. Secure 3D Printing: Reconstructing and Validating Solid Geometries using Toolpath Reverse Engineering

10:50 – 11:20  Break

11:20 – 12:20  Session 2: Data Security and Privacy for CPS
Session Chair: Sokratis K. Katsikas
• Srinivasa Rao Routhu and Alwyn Pais. Detecting Phishing Websites using Automation of Human Behavior
• Yuexin Zhang, Yang Xiang and Xinyi Huang. A Cross-Layer Key Establishment Model for Wireless Devices in Cyber-Physical Systems

12:20 – 14:00  Lunch

14:00 – 15:00  Keynote 2  Session Chair: Dieter Gollmann
Prof. Sokratis Katsikas (NTNU, Norway)
Cyber Security of the Autonomous Ship

15:00 – 15:40  Session 3: IoT Security
Session Chair: Michail Maniatakos
• Juan Guarnizo, Amit Tambe, Suman Sankar Bhunia, Martin Ochoa, Nils Tippenhauer, Asaf Shabtai and Yuval Elovici. SiPHON: Towards Scalable High-Interaction Physical Honeypots
• Hajoon Ko, Jiong Jin and Syeloong Keoh. ViotSOC: Controlling Access to Dynamically Virtualized IoT Services using Service Object Capability
15:40 – 16:40 Break / Walkthrough of NYUAD Center of Cyber Security Smart-City Testbed

16:40 – 17:40 Session 4: Attack Defense for CPS
Session Chair: Nils Ole Tippenhauer

- Jiafa Liu, Di Ma, Haojin Zhu and Andre Weimerskirch. A Functional Co-Design towards Safe and Secure Vehicle Platooning
- Zhiyuan Zheng and Narasimha Reddy. Towards Improving Data Validity of Cyber-Physical Systems through Path Redundancy
- Biplab Sikdar. Spatio-Temporal Correlations in Cyber-Physical Systems: A Defense Against Data Availability Attacks

17:40 -17:50 Closing and Best Paper Award