

Invitation

Security Threats, Challenges, and Mitigations in Cyber-Physical Energy Systems

Wednesday, 24th of July 2019
11:00 am

Conference Room, 5th floor,
Department of Electrical Engineering and Computer
Engineering and Informatics Building (Ttofis Building),
Cyprus University of Technology,
Limassol



Cyprus
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Department of Electrical
Engineering and Computer
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The Department of Electrical Engineering and Computer Engineering and Informatics of the Cyprus University of Technology invites you at the lecture on:

Security Threats, Challenges, and Mitigations in Cyber-Physical Energy Systems

Presenter: *Dr. Charalambos (Harrys) Konstantinou, Ph.D.*

Affiliations: Department of Electrical and Computer Engineering, FAMU-FSU College of Engineering & The Center for Advanced Power Systems (CAPS), Florida State University

Host: Dr. Vassos Soteriou

Abstract

Election hacking, power grid cyber-attacks, troll farms, fake news, ransomware, and other terms have entered our daily vocabularies and are here to stay. Cybersecurity touches nearly every part of our daily lives. Most importantly, national security and economic vitality rely on a safe, resilient, and stable cyber-space. We rely on hardware devices, software platforms, and network systems to connect, travel, communicate, power our homes, provide health care, run our economy, etc. However, cyber-threats and attacks have grown exponentially over the past years, exposing both corporate and personal data, disrupting critical operations, causing a public health and safety impact, and imposing high costs on the economy. In this talk, we will motivate the need to look more closely to cyber-physical energy systems security. We will provide a research perspective and discuss security threats, challenges, and counter-measures related with the cyber-physical infrastructure of power systems. We will also discuss the need for an accurate assessment environment, achieved through the inclusion of hardware-in-the-loop testbeds.

Bio of Dr. Charalambos (Harrys) Konstantinou

Dr. Charalambos (Harrys) Konstantinou is an Assistant Professor of Electrical and Computer Engineering with Florida A&M University and Florida State University (FAMU-FSU) College of Engineering and an affiliated faculty with the Center for Advanced Power Systems (CAPS) at FSU. He is the Director of the Decision & Secure Systems Laboratory (DSSlab) at CAPS, FSU. He received his Ph.D. in Electrical Engineering from New York University (NYU), NY and his Dipl.-Ing.-M.Eng. Degree in Electrical and Computer Engineering from National Technical University of Athens (NTUA), Greece. His research interests focus on cyber-physical and embedded systems security with particular focus on smart grid technologies. He is the recipient of the SCEEE Young Faculty Development Award 2019 (from the Southeastern Center for Electrical Engineering Education), as well as best paper award at the 26th IFIP/IEEE International Conference on VLSI and System-on-Chip (VLSI-SoC 2018). He is a member of the IEEE.

Information:
Tel. 25002566
www.cut.ac.cy