

Department of Electrical and Computer Engineering

Title: «Secured multiparty computations for networked control systems»

Konstantinos Koumidis

Research Associate of the KIOS Research Centre, University of Cyprus

Wednesday, 02th November 2016, 17:00 – 18:00
Room XOD02 – 117, New Campus – University of Cyprus

Abstract:

This talk first exemplifies the Blockchain technology that has been successfully used to protect values contained within the bitcoin alternative currency from malicious manipulation. Due to this particular feature of durability, it is worth investigating how blockchain technology can be used in the settings of cyber attacks. Thereafter the multi-party computation approach is detailed which enables multiple entities to securely compute a shared function based on their own inputs. The talk demonstrates how these two technologies can be successfully used to securely design networked control systems

Biography:

Konstantinos Koumidis is a research associate of the KIOS Research Centre for Intelligent Systems and Networks at the University of Cyprus. He has received his B.Sc. degree in Computer Engineering from the University of Cyprus in 2014 and his MSc in Computer Engineer in the same department in 2016. His thesis was focused on algorithms and security for Device to Device Communications. He is working as a Researcher at KIOS Research Center for the past two years. His research interests are mobile computing and networks and also security.