The successful deployment of smart grids is predicated on the ability to guarantee their security. Such a requirement is of paramount importance since electrical grids are essential to several components of the critical infrastructure. Recent cyber security incidents and security research studies demonstrate that electrical grids could be subjected to disrupting attacks that might lead to severe security and economic consequences, and even to the endangerment and loss of human lives. In this talk, we will first present the ongoing activities of our research program on smart grid security. We will then, present some of our recent research contributions in terms of the detection and the mitigation of delay attacks on time synchronization. In addition, we will discuss our recent ongoing research on security metrics for the smart grid.

Thursday, April 06, 2017
12:00 PM – 1:15 PM
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