

IEEE Miami Section Invited Seminar Announcement

“Smart Grid Cyber-physical Security Technologies and Evolution”

Speaker: Dr. Tarek Youssef

Date: June 15, 2021

Lecture: 1:30 PM-4:30 PM, FIU-EC 3960

Abstract:

Data communication is one of the most important aspects of establishing an intelligent network. Not only in Smart Grid infrastructure, firewalls, and gateways, but also in network status monitoring, reliable data communication enables successful network operation. Energy sector is an attractive target for cyber attackers for its perceived high vulnerability, high impact outcome. In this talk, I will discuss the importance of security in Smart Grid Cyber-physical Systems and their evolution.



Speaker's Bio

Dr. Tarek Youssef, an Assistant Professor of Electrical and Computer Engineering Department, has worked as a researcher in several projects funded by the department of energy (DoE) and the office of naval research (ONR). He authored and co-authored more than 15 journal and 25 conferences articles, two books chapters and three patents in energy storage, energy management, and smart grid security. He published articles in IEEE transaction on industrial informatics, IEEE transaction on Smart Grid, IEEE transaction on industrial applications, IEEE transaction on energy conversion, IEEE transaction on Magnetics, Electrical power system research Journal and Energies Journal.

Youssef joined UWF in 2018 after working as a postdoctoral at Florida International University for one year. His research during his Ph.D. and the postdoctoral period were funded by DOE's SEEDS cybersecurity center for securing smart grid. Prior to that, he worked for 12 years in communication and security field in Egypt. Youssef holds an M.S. degree in power electronics and B.S. degree in Electrical Engineering from Helwan University, Egypt and a Ph.D. degree in electrical engineering from Florida International University, USA.

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