

Capacity Building: Integrated Learning Environment for Cyber Security of Smart Grid

Challenge:

Security education for Smart Grid falls behind

Need to design both course modules and platform for hands-on experiments

Solution:

Education materials on security of communication, sensing, and transmission in Smart Grids

Systematic evaluation in both CS and EE courses

Award: 1303356. PIs: Weichao Wang, Wenzhan Song, Yi Pan, and Le Xie

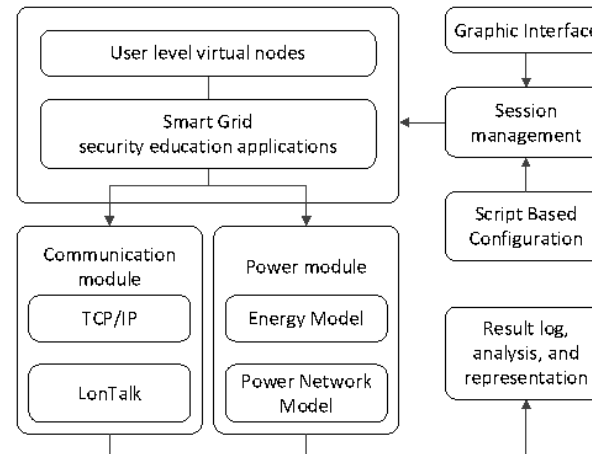
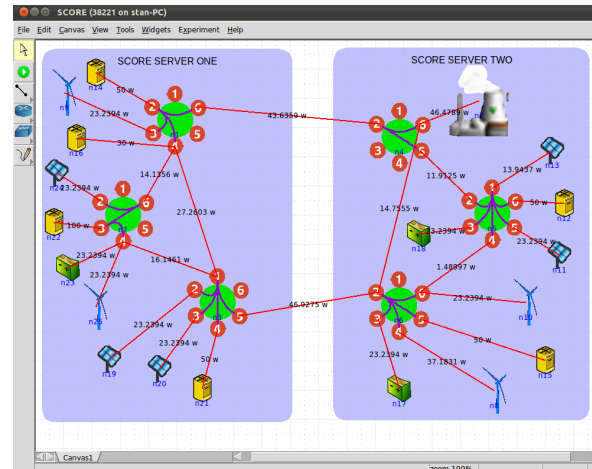


Figure 1. Architecture of the simulation environment.

Scientific Impact:

Bridge the gap in security education for Smart Grids

Simulation/Emulation experiment platform for hands-on exercises

Broader Impact:

Train qualified workforce for thousands of openings in modern power industry

Provide interdisciplinary research/education experiences to both faculty and students