

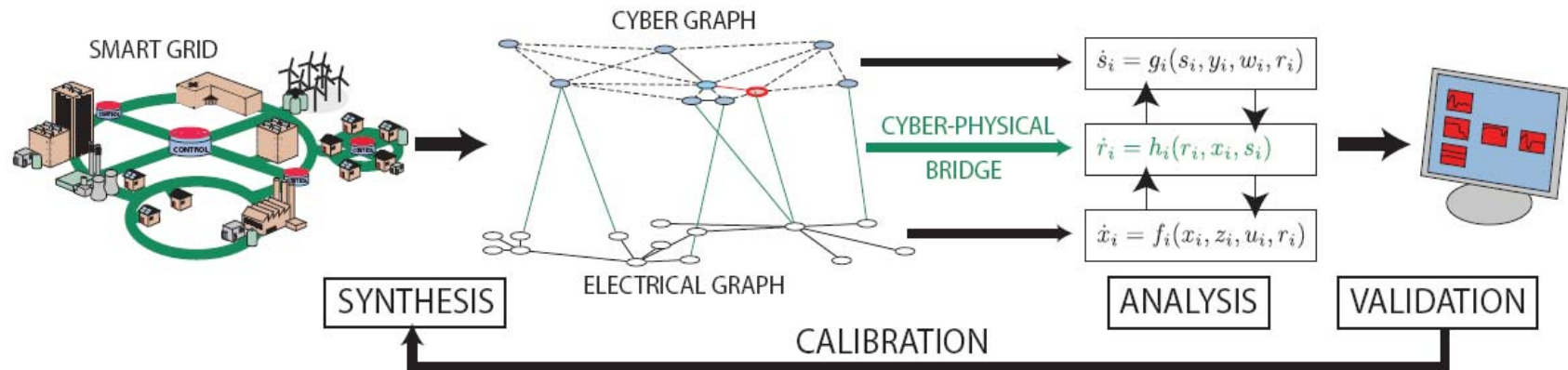
Karen Butler-Purry, PhD, P.E.
Professor of Electrical and Computer Engr.

- **Prognosis of Aging Power Systems**
- **Protection of Power Distribution Systems with Distributed Generators**
- **Active Management of MicroGrids and Stand Alone Power Systems**
- **Power Management and Damage Control of Shipboard Power Systems**
- **System Modeling and Simulation for Terrestrial and Military Power Systems**
- **Real-time Simulation of large-scale power systems, including Controller in the Loop (CIL) and Hardware in the Loop (HIL) studies**
- **A Framework for Cyber Security Analysis of the Electric Smart Grid**



*Department of Electrical and Computer Engineering
Texas A&M University
College Station, TX 77843-3128*

Cyber Physical System Resilience



- Graph theoretical dynamical modelling of interactions between cyber and power network
- Impact analysis of cyber attacks
- Cost benefit analysis of mitigation actions
- Protection and control methods for improving power grid resilience

