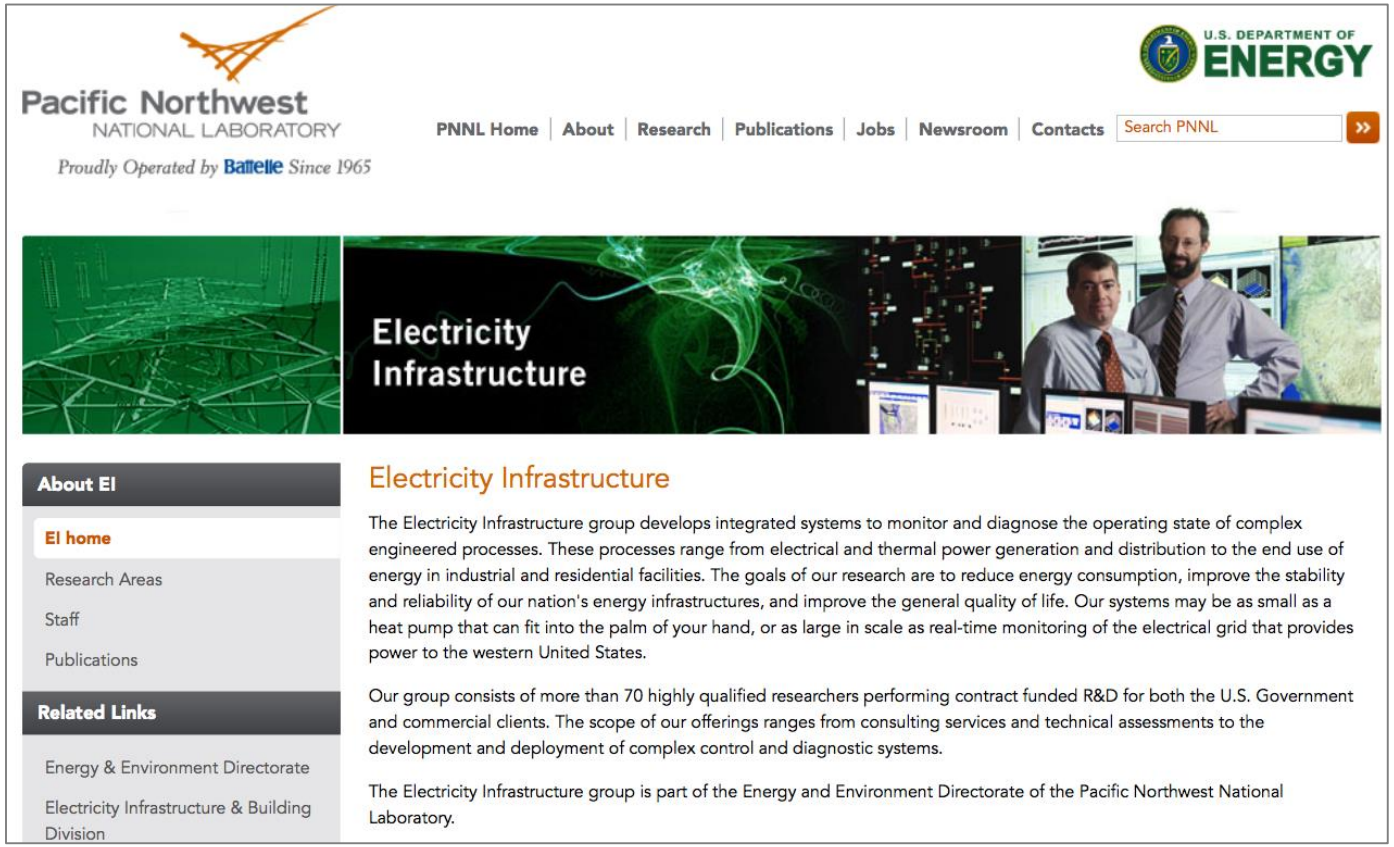
Shuangshuang Jin, Ph.D.

Associate Professor, School of Computing
College of Engineering, Computing and Applied Sciences
Clemson University
1240 Supply St, North Charleston, SC 29405
Email: jin6@clemson.edu
Phone: 843-730-5119

Prior Experience (2008-2017)

Senior Research Scientist, Electricity Infrastructure
Energy & Environment Directorate
Pacific Northwest National Laboratory
902 Battelle Blvd, Richland, WA 99354



Research Interests, Perspectives, and Capabilities

Apply advanced computer science technologies to other disciplines to solve pressing scientific and engineering problems.

High-Performance Computing

Big Data

Machine Learning

Data Analytics

Visualization

Power Grid

Energy System

Automotive

System Biology

Proteomics

Areas of Relevance for Clean Coal and Carbon

- Fossil Energy Power Systems
  - Energy efficiency: energy efficiency improvement at various stages of the fossil power production line.
  - Cyber physical security: online anomaly detection to identify and respond to faults and attacks in fossil power generation, operation, control and communication networks to enhance situational awareness.
  - Energy optimization: efficient utilization of intermittent renewable resource and fossil fuel generation to optimize power supply and demand to lower electricity bills, prevent cascading failures, and reduce carbon footprint.