

## **Research Interest June 2017**

**Asst. Güner Ürün**

My research focuses on electrical power systems and I examine issues related to the generation, transmission, and distribution of electric energy. A major topics of our work is on wide area monitoring and control, optimization of power system operation techniques, the security and reliability of power systems, and the integration of energy generation from renewable sources.

In shortly my research interest topic is based on ;

- DC Microgrid
- Grid-Connected Inverters for Renewable Energy Resources
- Power Converters, Control and Topologies

## **Current projects**

### **Robust DC Microgrid Control System**

A microgrid is an aggregation of Distributed Generators (DG) and loads. It can work in island standalone mode or in parallel with the main grid. Microgrid systems are one of the main building blocks of future Smart Grid technology. Microgrid technology has been a subject for research during the last 10 years. But, there still many technical challenges to be addressed in order to bring microgrid into full commercial use. In this work ,I will obtain controlling of power sharing by using droop control method .