

## Special Issue

# Smart Power Microdevices and Systems

### Message from the Guest Editor

Accordingly, power systems must be equipped with smart measurement capabilities, more advanced and stable control, as well as a communication platform. By using this equipment (smart sensors, telecommunication platform, and modern controller), more accurate information about the electrical network status can be obtained and decisions can be made in real-time. Such a structure of a modern power system that has smart sensors, a telecommunication platform for exchanging information, and renewable energy is called a smart grid. There are many definitions of the concept of a smart grid, such as "a grid where all consumers can access energy-efficient, cheap, accessible and reliable using control and communication technologies. Hence, a smart grid is a system that is compatible, reliable, and interactive, as well as a system that can integrate and optimize renewable energy sources. In addition, the specifications and requirements of the smart power grid infrastructure are divided into different layers such as application, security, communications, power control, and power systems.

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