Invited Session Title:
Control and Optimization in Flexible Energy Systems: Modern Approximation Theory and Application

Brief Description:
The future energy systems, consists of interconnected renewable electrical power grid, P2G devices and stations, energy storage plants, and other media of energy, are becoming a promising solution to the climatic issues. To accommodate the volatile renewable energy sources as well as get adapted to the changing operating environment, advanced control and optimization methodology is needed to realize flexibility of the future energy systems. Recent research has shown that modern approximation theory may help to tackle the technical challenges lie in the modeling, analysis, and eventually control and optimization of the flexible energy systems. In this session, invited specialists will share their theoretical and application work regarding the modern approximation theory and application on the control and optimization of flexible energy systems.

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