

2018 International Conference on Smart City and Intelligent Building (ICSCIB 2018)
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Special Session on:

“Smart Grid”

Session Organisers:

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Description:

Electrical grid and energy system are the foundation of the modern human society and play fundamental role in the development of smart city. Beside of the research on smart grid, one of the recent research themes in energy field is to study the multiple forms of energy (electricity, heat, cold, gas, etc.) in a systematic viewpoint and to design and control the multiple energy system in a distributed architecture, which is called energy Internet. To handle the significant penetration of the renewable energy resources including wind and solar and enhance energy system efficiency of energy intensive industries and buildings, future energy systems should also consider a systematic embedding of intelligent sensing, communication, control and optimization of energy systems.

Objectives:

This special session intends to provide a discussion and communication forum for the researchers in a wide span from smart grid to energy Internet.

Original papers are welcome in architecture design of energy systems, modelling and analysis of key elements in energy systems, scheduling and optimization of the operation of energy systems, etc.

🔍 Subject Coverage (not limited to)

- new architecture of energy systems
- modelling and analysis of energy systems
- distributed control and optimization of energy systems
- scheduling and optimization of grid
- analysis and optimization of renewable energy with grid
- analysis and optimization of energy storage systems with grid
- stability and safety of grid
- market analysis and business opportunity analysis