

# CALL FOR PAPERS



## Special Session on Applications of Multi-Agent System on Modelling and Control of

### Emerging Smart Grids

SPIES 2019-The International Conference on Smart Power & Internet Energy Systems

April 25-27, 2019, Melbourne, Australia



### Applications of Multi-Agent System on Modelling and Control of Emerging Smart Grids

#### Abstract:

In the 21<sup>st</sup> century, the vision of smart grids is to commit to the evolution and welfare of the human race in a highly reliable, stable and sustainable environment. Smart grids are viewed as critical energy infrastructures which eventually integrate physical processes, computational resources and communication capabilities managed by information technology. On top of that, the integration of distributed renewable energy resources and automation of existing systems require a knowledge of real-time information from different neighboring parts of the power network. Research and development in advanced multi-agent system (MAS) explore a new way of persistent compilation of advanced modelling and control techniques for power systems with communication and information technologies. The application of MAS on smart grids enriches stability

and cyber security through various advanced control and counter measuring techniques. This special session on the application of MAS on power systems will cover the following issues, but not limited to:

1. Application of MAS on control topology of conventional power systems and renewable energy integrated power systems
2. Application of MAS on power system protection
3. Application of MAS on smart energy management system modelling and control
4. Application of MAS on cyber-physical modelling and control of power systems
5. Application of MAS on modelling and designing of cyber security counter measuring techniques

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#### Schedule:

Deadline for submission of special session paper to Special Session Organizer- December 31, 2018

Notification of acceptance – January 31, 2019

Deadline for submission of final manuscripts to the Special Session Organizer-February 15, 2019

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