

## Tentative Outline

### Special/Thematic Issue for the Journal Recent Advances in Electrical and Electronic Engineering

#### Challenges for Stable Power Supply

*Guest Editor: Prof. Dongmin Yu*

*Co-Guest Editors: Prof. Dogan Celik and Dr. Dhananjay R. Mishra*

#### Scope of the Thematic Issue:

With the development of the electric power industry, the scale of the electric power system is expanding day by day, the transmission distance is longer and longer, the trans-provincial and regional large-scale electric power networks appear successively, and the economic benefits and power supply reliability have been improved. The development of power systems to large unit, large grid and high voltage long-distance transmission has also brought a series of complex technical problems, among which the stability of power system operation is one of the outstanding problems.

Voltage instability will lead to a large area of power outage accidents, resulting in great economic losses and serious social impact, therefore, how to solve the voltage stability and control technology, to prevent the occurrence of voltage collapse accidents, has important significance.

This topic focuses on the research of voltage stability, frequency stability, static stability, transient stability and dynamic stability of power system related stability measures, adjustment means, analysis methods, modeling and optimization, electronic components and other related research.

**Keywords:** Nanotechnology, Functional oxides, Biomaterials, Ferroelectrics, Nano-composites.

#### Sub-topics:

- Dynamic forecasting method of ultra-short term load
- Artificial intelligence automatic voltage regulation system control
- Relay protection policy
- Frequency stabilization strategy of DC power grid
- Automatic voltage regulator
- Impedance modeling and stability analysis of grid connection
- Series capacitance compensation
- Low frequency power oscillation

#### Schedule:

- Thematic issue submission deadline: **September 30, 2023**

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