

## Call for Papers

### Special Issue on

# “Optimal Operation and Control of Hybrid AC-DC Power Systems with High Share of Renewable Energy”

#### Important Dates

Full Paper Submission: **Apr. 30, 2020**

Final Decision Notification: **Jun. 30, 2020**

Publication of Special Issue: **Oct. 30, 2020**

Energy consumption transition from conventional energy to a low-carbon high-efficiency energy has led to the rapid development and utilization of renewable energy all over the world. For example, total installations of both wind and solar power capacities had reached to 184GW and 174GW respectively in 2018 in China. In order to transmit large scale remote renewable energy to the load centers, many HVDC links have also been constructed and built. As a result, power systems are changing from conventional AC power systems to hybrid AC-DC power systems with high share of renewable energy.

This “Call for paper” aims to promote research, innovation and exchange of information related to the key challenges regarding optimal operation and control of hybrid AC-DC power systems with high share of renewable energy.

#### The topics of interest of this “Call for Paper” are within these areas, in particular:

- Modelling, simulation and analysis of AC-DC power systems with high share of renewable energy;
- Optimal operation and control of AC-DC transmission systems with high share of renewable energy;
- Optimal operation and control of distribution systems with high share of distributed renewable energy
- Dynamic stability and control of AC-DC power systems with high share of renewable energy;
- Auxiliary service and power market for safe operation and control of AC-DC power systems
- Artificial intelligence (AI) applications for AC-DC power system operation and control.

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