



CALL FOR PAPERS

Journal of Modern Power Systems and Clean Energy

Special Section on Distributed Integrated Multi-energy System (DIMS)

The increasing pressure from energy and environment protection has made the research for advanced energy infrastructures urgent. To this aim, DIMS, focusing on deep integration of advanced multi-energy and information technologies, is regarded as the most likely form of resilient energy utilization for the future human society. By embedding advanced information technology into multiple energy systems, the intelligent regulation, coordination, dispatch, commitment, control, optimization and protection, etc., will be achieved in the processes of energy generation, conversion, transmission, distribution and consumption, etc. Meanwhile, the integrated multi-energy system will generate and utilize abundant data, which calls for innovative data collection, analytics and development of information technology. There are many challenges that require further research and development on the modeling, planning, operation and control of the distributed information and energy systems, which may include interdependent infrastructures such as electricity, transportation, communication, heat and natural gas networks. This special section aims at addressing and disseminating state-of-the-art research and opportunities regarding applications of innovative solutions to achieve the deep integration of advanced communication and information technology and multi-energy systems. We seek original papers with novel research contributions in all aspects of tools, models and methods of relevance and impact in DIMS.

The topics of interests include, but are not limited to:

- Distributed energy management structure and framework of DIMS
- Coupled mechanism modeling of DIMS
- Spatiotemporal data analysis and model development of DIMS
- Optimal planning, operation and control of DIMS
- Steady-state and transient stability analysis of DIMS
- The impact of cyber and physical security on the DIMS
- The application of AI and 5G technologies in the DIMS
- New algorithms and their convergence and stability analysis for DIMS

Submission Guidelines

The manuscripts could be submitted on <https://mc03.manuscriptcentral.com/mpce> .

The article templates can be downloaded from <http://www.mpce.info>.

Important Dates

Paper Submission Deadline: **Extended to April 30, 2020**

Acceptance Notification: **July 31, 2020**

Date of Publication: **September 30, 2020**

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