



4th International Conference on Smart Grid and Renewable Energy

www.sgre-qa.org

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Doha, Qatar

Special Session on Predictive Control for Power Electronics and Electrical Motors

organized and co-chaired by:

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Call for Papers

Outline of the Session:

Model Predictive Control (MPC) has been a topic of research/development for a long time. Firstly, it was proposed in the process industry. Then, in recent years, thanks to technological advances in microprocessors, it has been proposed as a promising solution for the control of power converters and electrical drive systems. MPC has several features, for instance, it can be utilized in a variety of processes, is simple to apply in multivariable systems and presents a fast dynamic response. Furthermore, it allows for nonlinearities and constraints to be easily included in the controller design. Major topics include but are not limited to the following:

- New model predictive control (MPC) methods
- Robust predictive control solutions
- Implementation on issues of MPC
- Modeless predictive control techniques
- Artificial intelligence in predictive control frame
- Predictive control techniques in renewable energy systems

Author's schedule:

Deadline for submission of special session papers	September 15, 2023
Notification of acceptance	October 15, 2023
Deadline for submission of final manuscripts	November 15, 2023

All the instructions for paper submission are included in the conference website:

<http://www.sgre-qa.org/>