

Special Issue

Digital Control of Power Electronics

Message from the Guest Editors

In recent years, model predictive control has been a powerful advanced digital control technology due to its superior control performance and excellent dynamic response. Nevertheless, this control technique suffers from excessive tuning and computational requirements, as well as high model/parameters dependence. At present, great effort is being focused on development in the digital control of power electronics, which presents critical features such as high control performance and fast dynamic response, robustness against noise/variation of parameters/faults etc., low tuning/computational requirements, simple implementation and model/parameters independence. We invite submissions on the topics include, but are not limited to, the following research areas:

- New digital control techniques for power electronics;
- Stability and robustness of digital control;
- Low-complexity digital algorithms;
- Model-free digital control approaches;
- Implementation issues of digital algorithms;
- Artificial intelligence and data-driven approaches in digital control.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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