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Design, Optimization and Applications of Power Converters

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Message from the Guest Editors

The power converters have become a mature and attractive solution for many applications. They can be found in many applications such as motor drives, active filters, charging stations, high frequency heaters, renewable energy sources, FACTS, and HVDC, among others. The most popular are the voltage source inverters, which are commonly used for low-power conversion and (especially multi-level inverters) in medium voltage and high power applications. The current source inverters also find their renaissance. In many technical papers their Authors present new inverter topologies with new properties and also proposes their control methods. The continuous efforts of scientists around the world make it possible to propose for industry the various converter topologies, modulation techniques and control strategies to improve features like the efficiency, robustness, fault-tolerant capability, economic cost and size. The research on this topic is ongoing, and is nowadays a hot research topic.



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Message from the Editor-in-Chief

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