Special Issue

Advances in Computational Electromagnetics

Message from the Guest Editor

Complex magnetic materials, such as superconducting materials, composite or nanomaterials, rare-earth free permanent magnets and so on are becoming more and more popular in next-generation technologies. The experimental characterization of these materials is often too costly or even not applicable, while fast and efficient computational electromagnetic (CEM) methods are currently available to understand and fully characterize the behavior of such materials. This Special Issue aims at publishing a collection of research contributions illustrating the recent advances in computational electromagnetic techniques needed to model and characterize complex magnetic materials, namely in the topics listed below.

- Computational methods for electromagnetics
- Numerical techniques for solving static and quasi-static fields
- Material modeling
- Nanomagnetics modeling
- Nano-electromagnetic computation
- Bio-electromagnetic computation
- Multiscale modeling and homogenization
- Electromagnetic inverse problems
- Optimization and design of electromagnetic devices
- Novel computational methods for machines and devices

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Message from the Editor-in-Chief

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