



## Simulation Tools for Electromagnetics

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### Message from the Guest Editor

The electromagnetic field computation has acquired more and more significance for the simulation, design and optimization of electrical engineering devices. The development of material technologies, the adoption of non-traditional configurations, the reduction of the equipment sizes and costs going along with the growth of the energy levels and the decrease of transmission times have motivated the improvement of computation techniques making them more and more rigorous.

The aim of the present issue is the application of analytical and numerical methods to the simulation and analysis of electrical engineering devices concerning namely power transmission lines and cables, transformers and electric machines (in the scope of electrical energy); signal transmission lines, waveguides, optical devices and antennas (in the scope of telecommunication systems); simulation of material electromagnetic properties, non-destructive tests, electromagnetic compatibility problems and electric and magnetic field mitigation techniques.





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