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The BEM and FEM/BEM Methods in Computational Electromagnetics

Guest Editor:

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Deadline for manuscript submissions: closed (30 April 2022)

Message from the Guest Editor

t is well known that many boundary-value problems can efficiently be solved numerically by means of the finite element method (FEM) and the boundary element method (BEM). The finite element method is very general and flexible. It can be applied to nonlinear problems, and the system of algebraic equations obtained is sparse and often symmetric and positive definite. However, it requires a bounded domain. By contrast, the boundary element method can elegantly deal with unbounded regions. It is more efficient in *meshing* due to the reduction of dimensions, and the resulting stiffness matrix is smaller but is fully populated, which is an often mentioned drawback.....

The aim of this Special Issue is to update the related techniques in the context of computational electromagnetics. Topics of interest include (but are not limited to) numerical methods as well as DC to high-frequency applications. Contributions that involve a review of the state-of-the-art in this area will be welcome.



Specialsue





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Message from the Editor-in-Chief

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