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Evolutionary Antenna Optimization

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Deadline for manuscript submissions:
closed (15 September 2022)

Message from the Guest Editors

Evolutionary optimization methods have been used with success in many scientific fields, including computational electromagnetics. The use of evolutionary optimization for antenna design has attracted increasing attention in the last decade and counts many success stories. On the other hand, some challenges are also present, such as the long optimization time due to the computational cost of 3D electromagnetic simulations.

This paper call aims to build a bridge between evolutionary algorithms and design procedures of complex electromagnetic structures. In particular, it aims to review the state-of-the-art of evolutionary optimization-based antenna design methods, identify and address key challenges, develop bespoke evolutionary optimization methods for antenna design, as well as promote application to a variety of antennas, e.g., wideband antennas, patch antennas, and antenna arrays, including RF circuit theory and synthesis, and predicting the equivalent circuits of multi-ports network. We also encourage submissions geared towards the use of hybrid optimizations methods.

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Message from the Editor-in-Chief

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