



## Evolutionary Optimization Algorithms for Electromagnetic Devices

Guest Editors:

**Dr. Alessandro Nicolai**

Department of Energy–Electrical Engineering, Politecnico di Milano, Via La Masa 34, 20156 Milano, Italy

**Prof. Dr. Riccardo Zich**

Department of Energy – Electrical Engineering, POLITECNICO DI MILANO, Via La Masa, 34, 20156 Milano (MI), Italy

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**closed (31 December 2021)**

### Message from the Guest Editors

Evolutionary Optimization Algorithms (EAs) are a family of biologically inspired population-based algorithms for global optimization. They are important tools for providing an effective and efficient solution to many real-world engineering problems due to their flexibility and capability to solve multimodal problems.

This Special Issue is focused on the solution of design and operation optimization problems of electromagnetic devices. Potential optimization topics include but are not limited to the following:

- Innovative applications of EAs;
- Tailored EAs;
- A surrogate model for reducing the optimization time;
- New electromagnetic benchmarks;
- A comparison between EAs;
- Real-time optimisation;
- Hardware-in-the-loop or software-in-the-loop optimization;
- Memory-saving and compact optimisation.

Possible applications include but are not limited to the following:

- Active antennas;
- Impulse antennas;
- Reflectarray and transmitarray antennas;
- Linear and tubular motors;
- Electric motors;
- Wireless power transfer





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## Editor-in-Chief

**Prof. Dr. Francisco Chiclana**  
School of Computer Science and  
Informatics, De Montfort  
University, The Gateway,  
Leicester LE1 9BH, UK

## Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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*Mathematics* Editorial Office  
MDPI, St. Alban-Anlage 66  
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