

## Special Issue

# Evolutionary Algorithms and Their Real-World Applications

### Message from the Guest Editor

Evolutionary algorithms have been successfully used to address complex real-world problems. For a large set of domains, they can calculate or approximate solutions within a reasonable time. This Special Issue aims to present the latest advances in the real-world applications of evolutionary algorithms. The scope of this Issue encompasses a broad range of topics, including new theoretical developments, innovative techniques, novel applications, and real-world optimization benchmarks, both with and without constraints. Suggested topics for papers include, but are not limited to:

- Theory and applications of genetic algorithms, evolution strategies and genetic programming;
- Hybrid approaches to real-world applications;
- Surrogate-assisted optimization and Bayesian optimization
- Multi-fidelity optimization;
- Simulation-based and evolutionary optimization;
- Application of simulation-based soft computing;
- Applications in combinatorial optimization, bio- and medical informatics, networks and telecommunications, logistics, scheduling, and transportation prescriptive analytics.

---

### Guest Editor

Dr. Michael Affenzeller

Heuristic and Evolutionary Algorithms Laboratory (HEAL), University of Applied Sciences Upper Austria—Campus Hagenberg, Softwarepark 11, 4232 Hagenberg, Austria

---

### Deadline for manuscript submissions

closed (20 May 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/170813](https://mdpi.com/si/170813)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[appls](https://appls.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )