

Special Issue

Applications of Genetic and Evolutionary Computation

Message from the Guest Editors

The field of Genetic and Evolutionary Computation (GEC) represents a cornerstone of computational intelligence, leveraging biologically inspired principles to solve complex optimization and decision-making problems. Over recent decades, the applications of GEC have expanded significantly, influencing areas such as engineering design, bioinformatics, logistics, robotics, and beyond. With the rise of big data and artificial intelligence, the integration of GEC with emerging technologies has further unlocked its potential for tackling real-world challenges across diverse domains. Research areas may include (but are not limited to) the following:

- Applications in engineering optimization, scheduling, and control;
- Advances in GEC for machine learning, data mining, and intelligent systems;
- Applications driven by the integrated synergy of GEC and large language models;
- GEC techniques in artificial intelligence and robotics;
- Real-world applications of GEC in finance, economics, and business;
- Multi-objective, dynamic, and constrained optimization problems;
- Theoretical advancements in GEC.

Guest Editors

Prof. Dr. Jun Zhang

1. Department of Electrical and Electronic Engineering, Hanyang University, Ansan 15588, Republic of Korea
2. College of Artificial Intelligence, Nankai University, Tianjin 300071, China
3. School of Computer Science and Technology, Zhejiang Normal University, Jinhua 321004, China

Dr. Weijie Yu

School of Information Management, Sun Yat-sen University, Guangzhou 510006, China

Deadline for manuscript submissions

31 August 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/229185

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

mdpi.com/journal/appls





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)