# Special Issue

# Advancements in Evolutionary Computation

## Message from the Guest Editors

Evolutionary computation, a family of algorithms inspired by biological evolution for global optimization, has been developed over several decades. Evolutionary computation is used to solve complex optimization problems that have too many variables for traditional algorithms. Potential applications are wide-ranging and include problems relating to combinatorial optimization, multi-objective optimization, and numerical optimization in diverse domains (such as engineering, design, medicine, robotics, sciences, etc.). In particular, these problems are often noisy, stochastic, or have dynamically changing constraints. This is where evolutionary computation methods are often applied as they have been shown to be highly successful when dealing with difficult problem domains. Evolutionary computation is commonly used instead of standard numerical methods when there is no known derivative of the fitness function or when the fitness function has many local extremes that can trap sequential methods. This Special Issue invites submissions on recent advances in the theory and application of evolutionary computation.

## Guest Editors

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## Deadline for manuscript submissions

closed (30 April 2024)

# Life

# About the Journal

### Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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