

Special Issue

The Use of Evolutionary Algorithms for Crop Planning

Message from the Guest Editors

This Special Issue aims to explore the latest advancements and future trajectories of using evolutionary algorithms (EAs) to aid in crop planning processes, both in the short and long terms. Crop planning plays a crucial role in agricultural productivity, resource management, and sustainability. Evolutionary algorithms are powerful techniques based on nature that have proved to be very effective in many domains. Existing work that applies these algorithms in this area has been remarkably successful in developing new insights into how cropping will need to change in the future. We invite submissions focusing on various aspects of evolutionary algorithms applied to crop planning, including, but not limited to, the following:

- Mathematical modeling approaches for EAs and crop planning;
- Multi-objective optimization for sustainable agricultural practices;
- EAs applied to resource allocation and use in crop production;
- EA-based decision support systems for precision agriculture using optimization techniques;
- Case studies and applications of EA methods in real-world crop planning scenarios;
- Novel EAs and computational methods for crop planning optimization.

Guest Editors

Prof. Dr. Marcus Randall

Bond Business School, Bond University, Queensland, Australia

Dr. James Montgomery

School of Information and Communication Technology, University of Tasmania, Hobart, Australia

Dr. Andrew Lewis

Institute for Integrated and Intelligent Systems, Griffith University, Queensland, Australia

Deadline for manuscript submissions

20 September 2025



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/233992

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

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





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



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



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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), PubAg, AGRIS, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)