Special Issue

The Application of Machine Learning in Agriculture

Message from the Guest Editors

Machine learning (ML) has emerged together with big data technologies and high-performance computing to create new opportunities to unravel, quantify, and understand data-intensive processes in agricultural operational environments. For precision analysis, numerous computing methods, such as neural networks, k-means, etc., have been used in the past. artificial neural networks, fuzzy information, support vector machines, decision trees, Bayesian belief networks, regression analyses, etc. are the most commonly used methods. It is essential to promote research and development of machine learning applications in the field of agriculture. Some of the application areas of machine learning are given, i.e., automated irrigation systems, agricultural drones for field analysis, crop monitoring systems, precision agriculture, animal identification, health monitoring, etc. This Special Issue focuses on the role of machine learning in the sustainable development of the agriculture industry, aims to share quality research concerning the application of machine learning techniques in the diverse agriculture sector, including pre-production, production, processing, and distribution phases.

Guest Editors

Prof. Dr. Nen Fu Huang

Department of Computer Science, College of Electrical Engineering and Computer Science, National Tsing Hua University, Hsinchu 30013, Taiwan

Prof. Dr. Ho-Hsien Chen

College of Agriculture, Departmenat of Food Science, National Pingtung University of Science and Technology, Pingtung, Taiwan

Deadline for manuscript submissions

closed (25 September 2022)

Agriculture

an Open Access Journal by MDPI

**Impact Factor 3.3
CiteScore 6.3**

MDPI

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 6.3

About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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)