

Special Issue

Innovations in Precision Smart Environmental Control for Sustainable Facility Agriculture

Message from the Guest Editors

In recent years, the demand for efficient and sustainable agricultural practices has surged, driven by the need to ensure food security and minimize environmental impact. Precision smart environmental control technologies and algorithms have emerged as essential tools in facility agriculture, encompassing greenhouses, livestock systems, and other controlled environments. These innovations enable growers to optimize environmental conditions, enhance plant and livestock productivity, and reduce resource consumption.

The aim of this Special Issue is to explore the latest developments in precision control systems and relevant advanced algorithms applied to environment control in facility agriculture. The articles in this Special Issue shall cover a broad range of topics, including but not limited to, precision climate control in greenhouses, smart ventilation systems in livestock facilities, environmental impact on animal behavior or plant production, and the application of AI and machine learning algorithms to optimize agricultural environmental operations.

Guest Editors

Dr. Hao Li

Dr. Xiaoshuai Wang

Dr. Guoxing Chen

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

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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

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