



## Artificial Neural Networks in Agriculture

Guest Editors:

**Dr. Sebastian Kujawa**

Department of Biosystems  
Engineering, Faculty of  
Environmental and Mechanical  
Engineering, Poznań University of  
Life Sciences, Wojska Polskiego  
50, 60-627 Poznań, Poland

**Prof. Dr. Gniewko Niedbala**

Department of Biosystems  
Engineering, Faculty of  
Environmental and Mechanical  
Engineering, Poznań University of  
Life Sciences, Wojska Polskiego  
50, 60-627 Poznań, Poland

Deadline for manuscript  
submissions:

**closed (31 December 2020)**

### Message from the Guest Editors

Dear Colleagues,

Modern agriculture needs to have high production efficiency combined with a high quality of obtained products. This applies to both crop and livestock production. To meet these requirements, advanced methods of data analysis are more and more frequently used, including those derived from artificial intelligence methods. Artificial neural networks (ANN) are one of the most popular tools of this kind. They are widely used in solving various classification and prediction tasks, for some time also in the broadly defined field of agriculture. They can form part of precision farming and decision support systems. ANN can replace the classical methods of modelling many issues, and are one of the main alternatives to classical mathematical models. The spectrum of applications of ANN is very wide. For a long time now, researchers from all over the world have been using these tools to support agricultural production, making it more efficient and providing the highest-quality products possible. Therefore, we encourage you to share the results of your research in the area of ANN applications in agriculture and submit your paper to this Special Issue.





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## Contact Us

---

*Agriculture* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/agriculture](http://mdpi.com/journal/agriculture)  
[agriculture@mdpi.com](mailto:agriculture@mdpi.com)  
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)