

## Special Issue

# Modelling Biological Systems for Digitalisation of Bioindustries

### Message from the Guest Editors

In this Special Issue, we invite submissions exploring the utilisation of formal or data-driven approaches to model biological systems in a variety of applications related to or implicated in bioindustries. Contributions can focus on but are not limited to network-based analysis, formal modelling, or ML-based predictive modelling of biological phenomena, modelling of mono-cultures or mixed-species cultures and their associated bioprocesses, or novel approaches in control of these systems that are directly relevant for bioindustries. Computational or bioinformatics tools that enhance our understanding of cellular and biological phenomena and facilitate their utilisation in bioindustries including those relevant for strain design and selection, as well as survey papers and reviews related to these areas are also welcomed.

---

### Guest Editors

Dr. Duygu Dikicioglu

Department of Biochemical Engineering, University College London, London, UK

Prof. Dr. Grigoris Amoutzias

Department of Biochemistry and Biotechnology, University of Thessaly, Greece

---

### Deadline for manuscript submissions

closed (28 February 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/45286](https://mdpi.com/si/45286)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )