



## Applications of Artificial Intelligence in Medicine Practice

Guest Editors:

**Prof. Dr. Kyungtae Kang**

Department of Artificial  
Intelligence, Hanyang University,  
Ansan 15588, Republic of Korea

**Dr. Junggab Son**

Department of Computer  
Science, Kennesaw State  
University, Marietta, GA 30060,  
USA

**Dr. Hyo-Joong Suh**

School of Computer Science and  
Information Engineering, The  
Catholic University of Korea,  
Bucheon 14462, Korea

Deadline for manuscript  
submissions:

**closed (20 November 2021)**

### Message from the Guest Editors

Dear Colleagues,

The development of new artificial intelligence (AI) methods based on machine learning and deep learning have a good application in the practice of medicine. Sophisticated AI algorithms can learn features from a large volume of healthcare data and can subsequently incorporate the obtained insights for assisting in clinical practice. In addition, self-correcting abilities enhance the accuracy of the algorithm on the basis of feedback. Consequently, an AI-based healthcare support system can assist physicians for administering proper patient care and can thereby help in reducing diagnostic and therapeutic errors that are inevitable in human-based clinical practice. Furthermore, such an AI-based system can derive useful information from the data of a large patient population to assist in making real-time inferences associated with health risk alerts and health outcome predictions.

In this Special Issue, we solicit original articles from a wide variety of interdisciplinary perspectives concerning the theory and application of AI in medicine, medically-oriented human biology, and healthcare.





an Open Access Journal by MDPI

## Editor-in-Chief

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

## 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.

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

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

Applied Sciences Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)