



Artificial Intelligence and Beyond in Medical and Healthcare Engineering

Guest Editor:

Dr. Syoji Kobashi

Graduate School of Engineering,
University of Hyogo 2167,
Shosha, Himeji 671-2280, Japan

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Message from the Guest Editor

In this Special Issue, we will focus on the vast range of new algorithms for medical image processing, analysis, and quantification. Machine learning, especially deep learning, has recently been widely investigated and has shown its power in medical image segmentation, registration, classification, response prediction, etc. We welcome manuscripts using unsupervised or supervised learning based on statistical and mathematical models for all the above clinical tasks in this Special Issue. Other topics include but are not limited to new algorithms on medical image segmentation, registration, disease response prediction, classification, image quality enhancement, image construction, and new systems in computer-aided diagnosis, perception, image-guided procedures, biomedical applications, informatics, radiology, and digital pathology.

In this Special Issue we welcome both original research papers and review articles on diverse topics such as:

- Deep learning
- Statistical model
- Medical image processing
- Prediction
- Personalized medicine
- Digital Health
- Patient satisfaction
- Computer-aided systems
- Deep medicine





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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.

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Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
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