Special Issue

Artificial Intelligence in Medical Imaging: The Beginning of a New Era

Message from the Guest Editor

The evolution of imaging techniques in radiology has led to obtaining images rich in information and therefore to the affirmation of quantitative imaging analysis. Such quantitative analysis uses digital images to extrapolate useful data. The idea of using machines to help physicians to make diagnoses is called computer-aided diagnosis or computer-aided detection. The evolution of this system over the years has led to an ever-greater diffusion of quantitative imaging analysis, enabling the extrapolation of imaging biomarkers from the images and their association with disease conditions. The current Special Issue focuses on the application of AI in medical imaging both generally and for investigating the conditions of specific pathological patients. Exploiting its subsystems such as machine learning and deep learning, with or without recurring to radiomics, a great amount of information can be obtained and used by physicians as a helpful tool. Since this field is in constant evolution, we aim to describe some of the current applications of AI in diagnostics.

Guest Editor

Dr. Cosimo Nardi

Department of Experimental and Clinical Biomedical Sciences “Mario Serio”, University of Florence, Viale Morgagni 50, 50134 Florence, Italy

Deadline for manuscript submissions

closed (31 July 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/112173

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

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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

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