

Special Issue

Application of Artificial Intelligence in Oncology

Message from the Guest Editor

The aim of this Special Issue is to highlight the key role of artificial intelligence in modern oncology. Artificial intelligence is one of the elements of the so-called Fourth Industrial Revolution and plays a key role in the development of medicine, especially oncology, in which the largest application of artificial intelligence is in cancer diagnosis (more than 80%), especially radiological and histopathological. Artificial intelligence algorithms make it possible not only to detect cancer at an early stage, but also to predict the possible development of cancer by means of predictive models. Unlike traditional predictive models fraught with limitations, especially in their ability to process complex and multidimensional data, artificial intelligence techniques have the potential to identify complex patterns and data relationships, making them particularly suitable for handling large and heterogeneous datasets analysed in cancer research. Artificial intelligence plays a special role in clinical research in oncology. It allows new drugs to be discovered and developed faster, even if not necessarily successfully, and patients to be better recruited into clinical trials.

Guest Editor

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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.

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