# **Special Issue**

# Artificial Intelligence in Oncology: Improving Imaging Diagnostics and Treatment

# Message from the Guest Editors

The emergence of artificial intelligence has irreversibly affected numerous medical fields, among themoncology. Oncology itself has always been the specialty harboring cutting-edge technologies and solutions. Rapid advances in the field of machine learning and artificial intelligence are fueling the development of computational oncology, radiomics and other areas. We have witnessed an incredible, ever-increasing amount of data that are recorded, analyzed and retrieved. This change pertains to the handling of datasets (fusion of variables originating from distinct realms of medical records, e.g., images, texts, signals, metadata, searching for relevant studies), mining and analysis (Albased algorithms), as well as the discovery of novel relations, insights and knowledge. In this Special Issue, the goal is to demonstrate: 1. How Al algorithms have permeated oncology, starting from diagnosis, both pathologically and with the use of a variety of imaging techniques; 2. What Al's power is for predicting treatment results (more relevant predictors discovery); 3. What the Al's role is in monitoring treatment outcomes, utilizing extractable prognostic factors.

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### Deadline for manuscript submissions

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