Special Issue

Recent Advances of Deep Learning for Cancer Diagnosis and Prognosis

Message from the Guest Editors

Deep learning has advanced substantially in recent years due to the availability of powerful computational resources, large datasets, and the invention of novel network architectures. Deep learning boasts successful applications in many fields, including the early detection of cancer and the prediction of cancer prognosis. As a complicated disease that depends on multiple factors, the accurate assessment of cancer subtype, onset, and development requires the integration of heterogeneous datasets such as genome sequencing data, medical image data, and electronic medical data or available clinical records to identify informative biomarkers and make reliable predictions. As a result, the multi-faceted causes of cancer, complex interdependency of biological systems, heterogeneity of available data, expectation of high interpretability, privacy, and ethics all pose special challenges to the application of deep learning in this field. For this Special Issue, we welcome manuscripts that focus on addressing the above challenges from a technical or algorithmic perspective, as well as applications of existing deep learning methods that make substantial clinical impacts.

Guest Editors

Dr. Cuncong Zhong
Prof. Dr. Marcus Schmidt
Dr. Olivier Rukundo

Deadline for manuscript submissions

closed (30 June 2024)

Cancers

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed

mdpi.com/si/187774

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

mdpi.com/journal/cancers

Cancers

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 8.8
Indexed in PubMed

mdpi.com/journal/cancers

About the Journal

Message from the Editor-in-Chief

Cancers (ISSN 2072-6694) is an international, online journal addressing both clinical and basic science issues related to cancer research. The journal will continue its open access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

Editor-in-Chief

Prof. Dr. Samuel C. Mok
Department of Gynecologic Oncology and Reproductive Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

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), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Oncology) / CiteScore - Q1 (Oncology)