



Advances of Artificial Intelligence in the Management of Patients with Central Nervous System Tumors

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Message from the Guest Editors

Dear Colleagues,

In recent years, advanced neuroimaging techniques, such as diffusion tensor imaging (DTI), dynamic susceptibility contrast (DSC), dynamic contrast-enhanced imaging (DCE), MR spectroscopy, and magnetic resonance elastography (MRE) provided valuable qualitative and quantitative information about morphology and function that can be used as a biomarkers in brain tumors.

On the other hand, the molecular characterization of tumors is enhanced with current genetic sequencing techniques and transcriptomic and proteomic analysis.

Artificial intelligence allows significant advances in neuro-oncology. Its application allows the performance of complex tasks related to diagnosis, segmentation, histopathological diagnosis, tracking tumor development, classification, and predictions of outcome. Thus, the classification and prediction results generated by AI can be applied in daily clinical practice.

We welcome submissions of research papers providing evidence for the development and application of techniques based on artificial intelligence related to managing CNS tumors.

Dr. Santiago Cepeda
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Guest Editors





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