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Patent Search

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Abstract:

SYSTEMATIC TECHNIQUES TO STUDY THE IMPACT OF NOVEL APPROACHES IN BRAIN TUMOR THERAPY A method for in-vitro brain tumour model to preserve the three dimensional structure during the subsequent culture process while also effectively resolving issues with the prior art's inadequate cell nutrition supply inside large-volume hydrogel and the degradation of biological properties and functions of brain tumour cells in the in-vitro two-dimensional (2D) culture of the existing brain tumour model leveraging the current deep learning technology to segment brain tumours, the method addresses the issue of not being able to guarantee the continuity of a segmented result on the appearance and the space. The method comprises the steps of deep coding-decoding full convolution network segmentation system model building, deep discriminator network model building, segmentation system pre-training and parameter optimization, counter training and target domain feature extractor parameter optimization and target domain MRI brain tumor automatic semantic segmentation.

Complete Specification

Description:SYSTEMATIC TECHNIQUES TO STUDY THE IMPACT OF NOVEL APPROACHES IN BRAIN TUMOR THERAPY

BACKGROUND

Technical Field

[0001] The embodiments herein generally relate to a systematic technique to study the impact of novel approaches in brain tumor therapy.

Description of the Related Art

[0002] A method is generally recognized that the three-dimensional microenvironment structure in which tumours grow in living organisms contains not only tumour cells but also stromal cells, extracellular matrix, and a variety of secreted substances. Radiologists frequently manually segment tumours using multimodal magnetic resonance images in the clinic, which is a laborious and time-consuming process. By using computerized brain tumour segmentation technology, the doctor can be relieved of this duty and efficiently avoid fatigue-related blunders. Although there have been many improvements in patient management practices and in basic scientific research, there is still a great deal of frustration in the rational and successful discovery of effective therapies, especially for life-threatening diseases like cancer, inflammatory conditions, infection, and other conditions. For neuropathological investigation, the creation of diagnosis reports, the design of surgical plans, the development of treatment plans, and other similar processes, accurate segmentation of brain tumours is crucial support. Treatment consists primarily of surgical removal and radiotherapy. Chemotherapy is also used, but the choice of appropriate chemotherapy drugs is limited, possibly because most drugs do not penetrate the blood-brain barrier sufficiently to treat brain tumors. The tumour recurrence, which is believed to result from a subset of cancer stem cells that survive the initial treatments, is the main

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