Patent Search

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Abstract:

A completely automated brain and classification technique and system are segmenting and classifying tumors enhance machine intelligence health experience. The syster segmentation technique and automated brain tumors use the entire tumor segmentation and multi-class segmentation to do a precise analysis.

Complete Specification

Claims:1. A technique that has been designed to include a device's non-transitory memory: the whole segmentation of tumor, including the location of initial tumor seeds and segmentation of tumor based on tumor seeds and multi-class segmentation of the tumor.
2. Claim 1 technique, including the whole segmentation of the tumor: data standardization and initial segmentation
3. The technique of claim one where the segmentation of the multi-class tumor includes: extraction, classification of voxel, and refining.
4. Claim 3 involves determining voxel-specific characteristics and context characteristics in which voxel-specific features comprise features, structure, and localizing features.
5. This technique, wherein this step generates the segmented brain tumor picture, comprises the optimization, iteratively, of an appropriate objective function based o the initial label information and the edge weight in the graph.
, Description:This innovation is concerned with medical imaging processing and, in particular, completes automated segmentation of brain tumors using a notion of dee learning.
DISCUSSION OF THE PRIOR ART:
Glioma is the most frequent and diverse of the primary brain malignancies. The traditional division of glioma into high and low-level tumors is based on their histology, a genetic profiles. Glioma segmentation based on Magnetic Resonance Imaging (MRI) may help predict aggressiveness and treatment response. At now, MRI segmentation glioma is mainly dependent on histological imagery correlations. Glioma are typically divided by traditional MRI sequences into active tumors, necrotic tissues, and surrounding edema (ED). Precise picture segmentation relies on how the MRI signal for those sub-components can be distinguished. The glioma segmentation concurre

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