

# **Multi-Modality Feature Fusion for 3D Brain Tissue Segmentation**

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A full paper is being prepared to describe our novel method in which we segment brain tissues with 3D fully convolutional networks. In this work, we propose a novel pipeline to address this challenge task. To deal with the heavy imbalance problem between classes, we design a high recall loss function based on a generalized form of Dice loss. In order to utilize information from different modalities, we propose an efficient and sufficient feature fusion strategy. To avoid heavy overfitting problem in small dataset, we adopt some basic data augmentation methods. We use T1, T1\_IR and FLAIR data in our pipeline. More details will be given in our full paper.