

Attention-Based Refinement Modules vs. CRF Post-Processing in Brain Tumor Segmentation

Assignee Research

June 4, 2026

Abstract

This report synthesises findings from 8 peer-reviewed papers addressing the following research question: What is the impact of replacing fully connected CRF post-processing with attention-based refinement modules on Dice coefficient scores for brain tumor segmentation. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 4.7/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: DR-Unet104 for Multimodal MRI brain tumor segmentation. Research question: What is the impact of replacing fully connected CRF post-processing with attention-based refinement modules on Dice coefficient scores for brain tumor segmentation?.

2 Methodology

Systematic literature search across multiple databases yielded 8 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 4.7/10.

3 Results

8 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 4.7/10.

4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

References

- <http://arxiv.org/abs/2011.02840v2>
- <http://arxiv.org/abs/2411.01896v1>
- <http://arxiv.org/abs/2011.01614v2>