

# Semi-Automated Brain MRI Segmentation

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## Goals:

- To apply theoretical improvements to the watershed transformation to MRI images of glioblastoma patients
- To increase accuracy and reduce inter and intra-observer variability present in current segmentation practices

## • Significance:

- Current Methods are manual, which results in inter/intra observer variability
- Preforming regions reduces variability of all kinds

## Results:

- First ever implementation of the Viscous Watershed Transform in ITK
- Both integrated into ITK-SNAP

