

Auto Segmentation of Spine CT for Data-Intensive Analysis of Surgical Outcome

- Motivation
 - Currently spine surgery outcomes have high variability
 - “Spine Cloud” - a big data approach to improve spine surgery outcome
 - “Spine Cloud” requires a large database of segmented spine CT images
- Method
 - 3D-Based Graph Cut Optimization
- Results
 - N20 Average Dice Coefficient >0.7
 - N200 performing well for typical spine morphology

