Segmentation I

BMED/ECE 6780
Medical Image Processing
Spring 2009

Segmentation of Brain Structures

Colored brain region overlay
- Right hemisphere - Left Hemisphere - Brain Stem - Cerebellum

Segmentation algorithm demos
Coupled gray/CSF and white/gray surface propagation
Brain region growth

Brain Tissue Segmentation
Brain surface 2D sections

Skin surface extraction
Skin surface rendering with registration markers

Thresholding
Gonzalez and Woods, Digital Image Processing
Automatic Global Thresholding

Gonzalez and Woods,
Digital Image Processing