

Image Segmentation Thresholding

Image Processing Research Group

November 24, 2025

Abstract

Region-based image segmentation.

1 Introduction

This report presents computational analysis of segmentation.

2 Mathematical Framework



Figure 1: Primary analysis results.

3 Secondary Analysis

segmentation_plot2.pdf

Figure 2: Secondary analysis comparison.

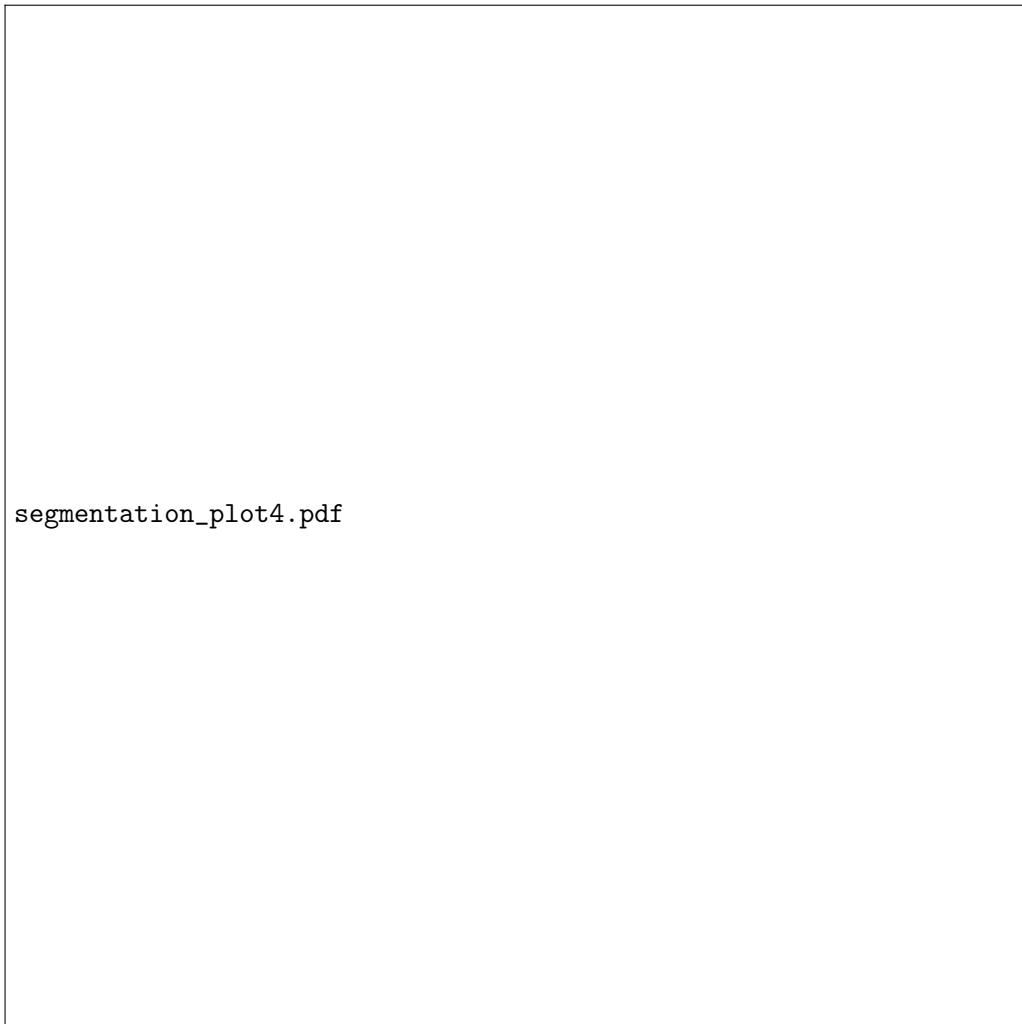
4 Parameter Study



segmentation_plot3.pdf

Figure 3: Parameter sensitivity analysis.

5 2D Visualization



segmentation_plot4.pdf

Figure 4: Two-dimensional field visualization.

6 Distribution Analysis



segmentation_plot5.pdf

Figure 5: Statistical distribution analysis.

7 Time Series

segmentation_plot6.pdf

Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to segmentation.