An optical method for generating the nonlinear separating isosurface of two classes of objects in two-dimensions using Marching Squares

Shawn Halayka*

Tuesday 19^{th} April, 2022 09:47

Abstract

1 Introduction

Iron out the wrinkles using blur. Ameliorate

^{*}Independent - sjhalayka@gmail.com

References

[1] James, et al. An Introduction to Statistical Learning with Applications in R. ISBN: 978-1-0716-1417-4

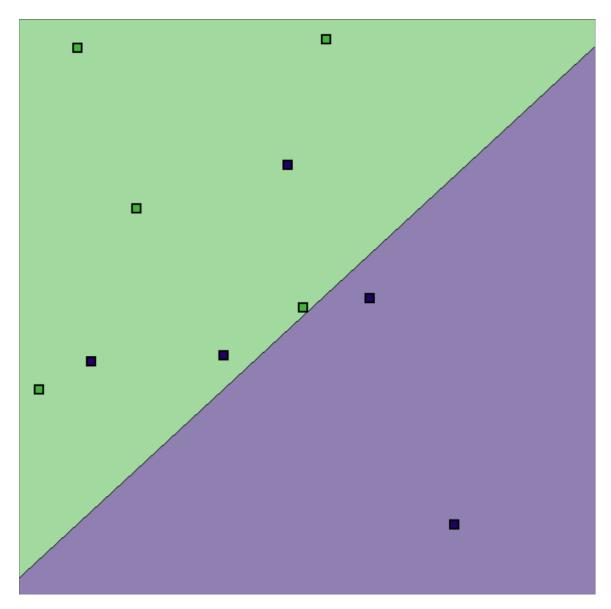


Figure 1: Linear separation.

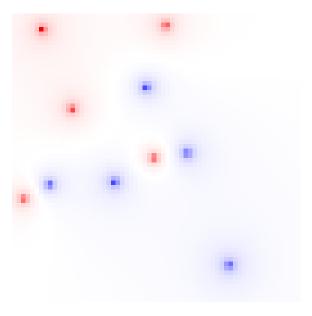


Figure 2: Bitmap image used as input to the Marching Squares algorithm.

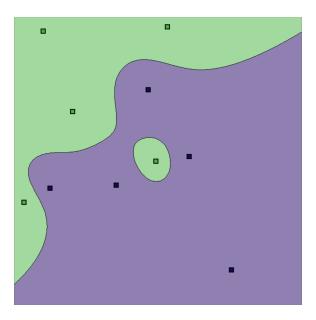


Figure 3: Nonlinear separation generated by the Marching Squares algorithm.

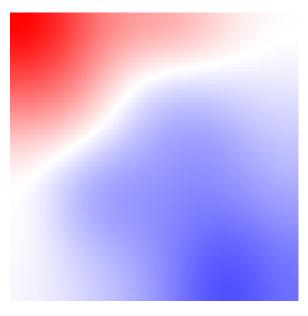


Figure 4: A Gaussian blurred bitmap image used as input to the Marching Squares algorithm.

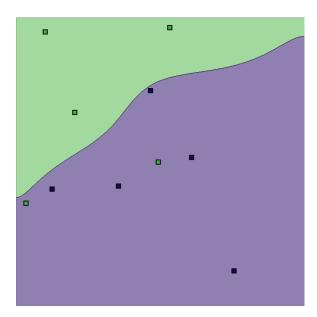


Figure 5: Gaussian blurred nonlinear separation generated by the Marching Squares algorithm.