

Spatial Epidemiology Diffusion Models

Epidemiology Research Group

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Abstract

Geographic spread of infectious diseases.

1 Introduction

This report presents computational analysis of spatial epidemiology.

2 Mathematical Framework

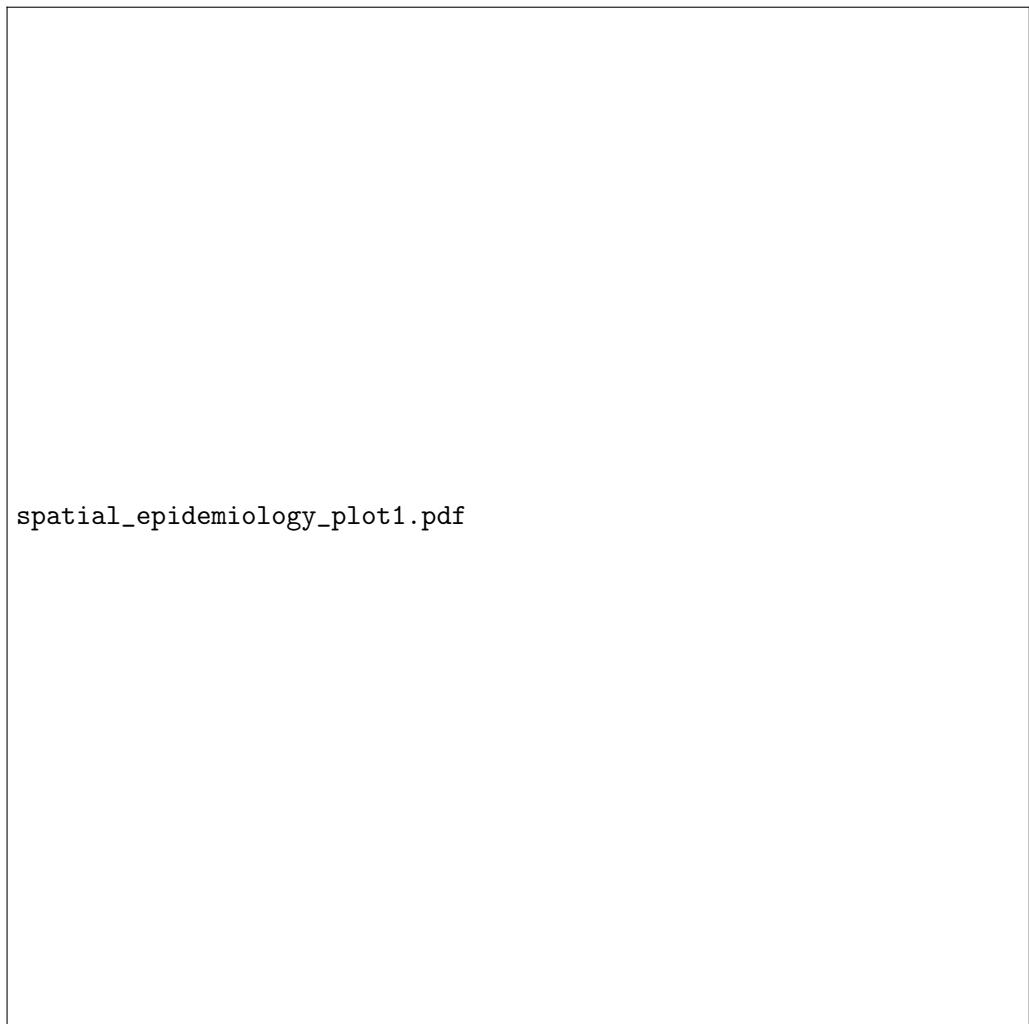


Figure 1: Primary analysis results.

3 Secondary Analysis

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Figure 2: Secondary analysis comparison.

4 Parameter Study

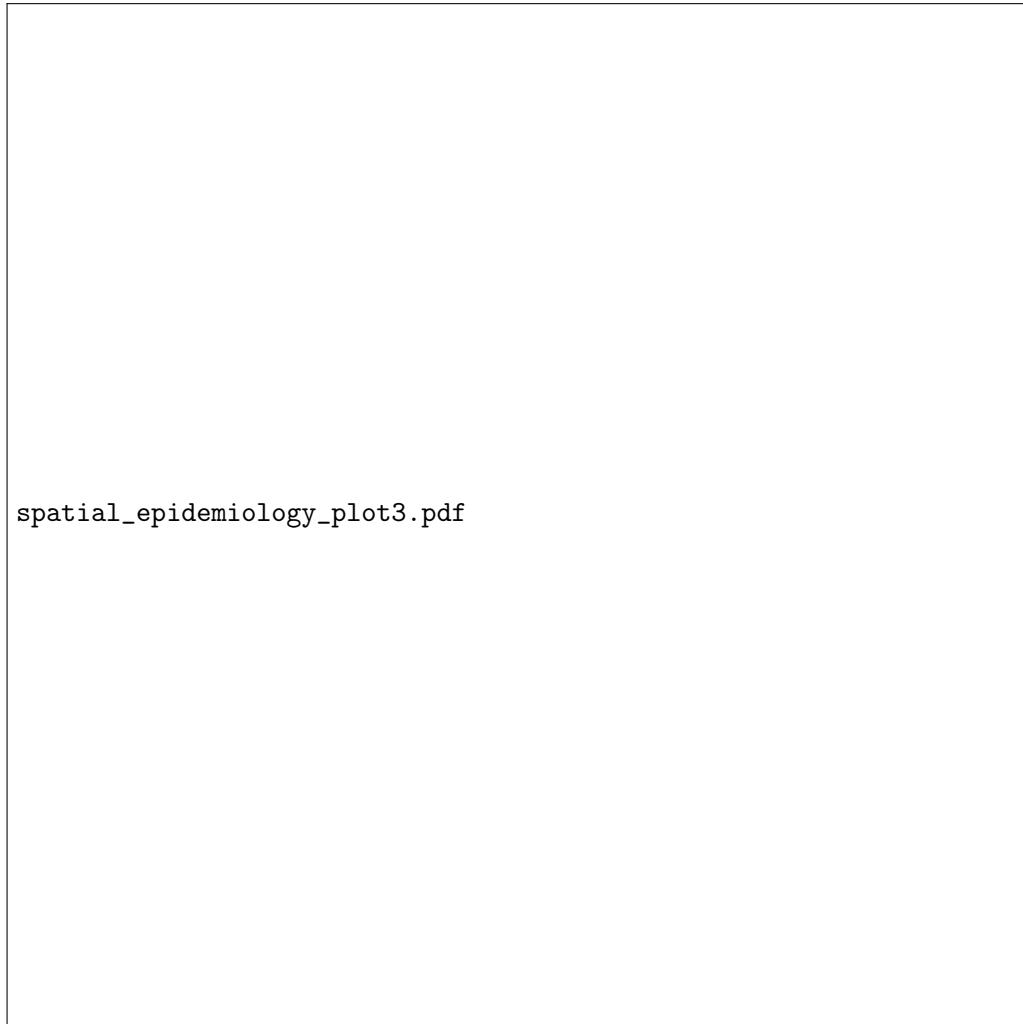
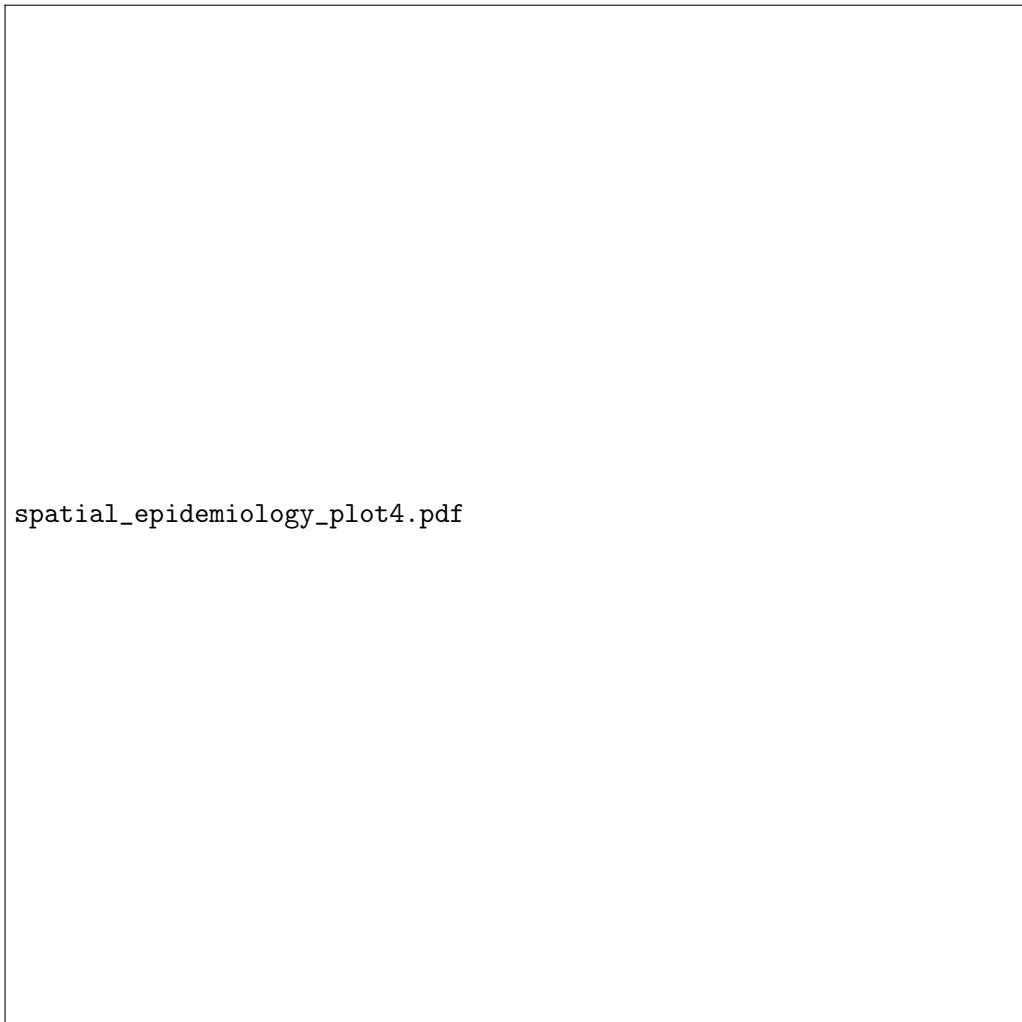


Figure 3: Parameter sensitivity analysis.

5 2D Visualization



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Figure 4: Two-dimensional field visualization.

6 Distribution Analysis



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Figure 5: Statistical distribution analysis.

7 Time Series

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Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to spatial epidemiology.