

Modeling Discontinuous Change in Retailing Systems: Extensions of the Harris-Wilson Framework With Results From a Simulated Urban Retailing System

This paper provides a test of an extension to the Harris-Wilson (1978) model for examining discontinuous change in retailing systems. While the Harris-Wilson model has been used almost exclusively to examine discontinuous change in the size of retail outlets, Fotheringham (1985) and Fotheringham and Knudsen (1986a) have recently shown it can be extended to model discontinuous change in the size and the relative location of retail outlets. Here, we present a test of this extension in a simulated urban retailing system. We also consider in more depth the supply side of the Harris-Wilson framework and show how discontinuous changes between non-zero equilibria can be modeled. Until now this has been impossible due to the previously restricted nature of the model. The generalization presented and examined here also allows an investigation of the trade-off between the size and the location of retail outlets and of the effects of different types of consumer shopping behavior.

1. INTRODUCTION

In the last thirty years, the locational pattern of retailing has undergone some dramatic changes. We have witnessed the replacement of the corner store by the supermarket, the clustering of outlets into shopping malls and retailing strips, and the reduction of downtown retailing dominance with the suburbanization of retail outlets. These changes have recently been investigated using the theory of catastrophes and bifurcations. Harris and Wilson (1978), in a seminal article, explored explanations for discontinuities in retail size dynamics, while Fotheringham (1985) has discussed similar discontinuities in retail location dynamics. Wilson and Outton (1983) have provided empirical evidence of the former while Fotheringham and Knudsen (1986b) have presented empirical evidence of the latter. Fotheringham and Knudsen also discuss a methodology for modeling discontinuous change in both the size and the spacing of retail outlets.

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