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Point process models for household distributions within small areal units

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DATE RECEIVED: 10 Sep 2011

DATE PUBLISHED: 13 Jun 2012

WORD COUNT: 5744

KEYWORDS: [» areal units](#), [» household distribution](#), [» point processes](#), [» simulation](#), [» spatial demography](#)

DOI: [» 10.4054/DemRes.2012.26.22](#)

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Abstract

Spatio-demographic data sets are increasingly available worldwide, permitting ever more realistic modeling and analysis of social processes ranging from mobility to disease transmission. The information provided by these data sets is typically aggregated by areal unit, for reasons of both privacy and administrative cost. Unfortunately, such aggregation does not permit fine-grained assessment of geography at the level of individual households. In this paper, we propose to partially address this problem via the development of point process models that can be used to effectively simulate the location of individual households within small areal units.

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