

Testing for the Presence of Structural Change and Spatial Heterogeneity  
in a Spatial-Temporal Model

by

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## Abstract

The motivation of this study is the development of a procedure that tests for the presence of structural change and spatial heterogeneity using bootstrap techniques and the forward search algorithm for the spatial-temporal model proposed in the paper by Landagan and Barrios (2007). The nonparametric test is capable of detecting presence of structural change and spatial heterogeneity in the spatial-temporal model.

**Keywords:** bootstrap; forward search; spatial-temporal model