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Sample Selection Bias and Repeat-Sales **Index Estimates**

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Dean H. Gatzlaff¹ & Donald R. Haurin²

Abstract

Analysis of variations in house values among localities requires reliable house value indices. Gatzlaff and Haurin (1994) indicate that traditional hedonic house value index estimates, using only information from a sample of sold homes to estimate value movements for the entire housing stock, may be subject to substantial bias. This article extends previous work by adapting the censored sample procedure to the repeat-sales index estimation model. Using data from Dade County, Florida, a house value index constructed from a sample of homes selling more than once, rather than all houses in a locality, is found to be biased. The bias is shown to be highly correlated with changes in economic conditions.

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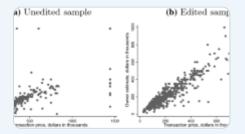
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 $=\{(x_i, y_i)\}_{i=1}^N$ $h(x) = h_1(x) + h_2(x) + ... + h_n(x)$



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Author information

Authors and Affiliations

Department of Insurance, Real Estate, and Business Law, The Florida State University, Tallahassee, FL, 32306

Dean H. Gatzlaff

Departments of Economics and Finance, The Ohio State University, 1945 N. High Street, Columbus, OH, 43210

Donald R. Haurin

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