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Empirical likelihood estimation and consistent tests with conditional moment restrictions.

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Summary: This paper is about efficient estimation and consistent tests of conditional moment restrictions. We use unconditional moment restrictions based on splines or other approximating functions for this purpose. Empirical likelihood estimation is particularly appropriate for this setting, because of its relatively low bias with many moment conditions. We give conditions so that efficiency of estimators and consistency of tests is achieved as the number of restrictions grows with the sample size. We also give results for generalized empirical likelihood, generalized method of moments, and nonlinear instrumental variable estimators.

MSC:

62H12 Estimation in multivariate analysis
62E20 Asymptotic distribution theory in statistics
62F12 Asymptotic properties of parametric estimators

Cited in **1** Review
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Keywords:

nonlinear instrumental variables; generalized method of moments; generalized empirical likehood; consistent specification testing

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