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Consistent specification testing for conditional moment restrictions. (English) Zbl 1028.62030
Econ. Lett. 71, No. 3, 299-306 (2001).

This paper introduces specification tests for conditional moment restrictions. The proposed tests are generalizations of the Kolmogorov-Smirnov and Cramér-von Mises tests and are consistent against all alternatives to the null hypothesis, powerful against $1/n$ local alternatives and not dependent on any smoothing parameter. A nonparametric bootstrap procedure based on a recentered criterion function is suggested to obtain critical values for the tests and is justified asymptotically.

MSC:

62G10 Nonparametric hypothesis testing
62G09 Nonparametric statistical resampling methods

Cited in 12 Documents

Keywords:

Bootstrap; Conditional moment restriction; Consistent specification test; GMM

Full Text: [DOI](#)

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