J-STAGE
My J-STAGE Sign in

ONLINE ISSN : 1348-6365
PRINT ISSN : 1882-2754

JOURNAL OF THE JAPAN STATISTICAL SOCIETY
Vol. 36 (2006) , No. 2 pp.149-171

[PDF (240K)] [References]

Inference on the Cointegration Rank and a Procedure for VARMA Root-Modification

Taro Takimoto[1)] and Yuzo Hosoya[2)]

1) Faculty of Economics, Kyushu University
2) Department of Economics, Meisei University

Abstract: The paper presents a feasible numerical procedure for evaluating the maximum Whittle likelihood estimates and the likelihood-ratio statistics, where to obtain the maximum Whittle likelihood estimates under specific cointegration ranks, we introduce an iterative method in which the set of the ARMA coefficient estimates is adjusted so as to guarantee that in each step they satisfy the root conditions imposed by respective cointegration rank hypotheses. The method is incorporated in the Whittle likelihood maximization.

Key words: cointegration rank test, invertibility, Jordan canonical form, stationarity, Whittle estimator

[PDF (240K)] [References]

Download Meta of Article[Help]
RIS
BibTeX

To cite this article:

Taro Takimoto and Yuzo Hosoya; “Inference on the Cointegration Rank and a Procedure for VARMA Root-Modification”, *JOURNAL OF THE JAPAN STATISTICAL SOCIETY*, Vol. **36**, pp.149-171 (2006) .

JOI JST.JSTAGE/jjss/36.149

Copyright (c) 2007 Japan Statistical Society

Japan Science and Technology Information Aggregator, Electronic