

[Available Issues](#) | [Japanese](#)>> [Publisher Site](#)Author: Keyword: 

Search

[ADVANCED](#)[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1348-6365

PRINT ISSN : 1882-2754

## JOURNAL OF THE JAPAN STATISTICAL SOCIETY

Vol. 37 (2007) , No. 2 pp.253-283

[\[PDF \(306K\)\]](#) [\[References\]](#)

## A Test of Equality of Mean Vectors of Several Heteroscedastic Multivariate Populations

Yoshihide Kakizawa<sup>1)</sup>*1) Faculty of Economics, Hokkaido University*

**Abstract:** This paper deals with a test of equality of mean vectors of several heteroscedastic multivariate populations. We derive not only the asymptotic expansion up to  $N^{-1}$  of the nonnull distribution of James's (1954) statistic, but also those of two corrected statistics due to Cordeiro and Ferrari (1991) and Kakizawa (1996). The derivation we considered here is based on the differential operator method developed in Kakizawa and Iwashita (2005).

**Key words:** asymptotic expansion, Bartlett's type adjustment, differential operator, heteroscedasticity, local power, nonnormality, nonnull distribution, one-way MANOVA

[\[PDF \(306K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

To cite this article:

Yoshihide Kakizawa; "A Test of Equality of Mean Vectors of Several Heteroscedastic Multivariate Populations", *JOURNAL OF THE JAPAN STATISTICAL SOCIETY*, Vol. **37**, pp.253-283 (2007) .



---

[Japan Science and Technology Information Aggregator, Electronic](#)

