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[\[PDF \(151K\)\]](#) [\[References\]](#)**Distributions and the Bootstrap Method of Some Statistics in Principal Canonical Correlation Analysis**Takakazu Sugiyama¹⁾, Toru Ogura¹⁾, Fumitake Sakaori²⁾ and Tomoya Yamada³⁾1) *Department of Mathematics, Chuo University*2) *Faculty of Sociology, Rikkyo University*3) *Faculty of Economics, Sapporo Gakuin University*

Abstract: We investigate the canonical correlation of the principal components from two populations, and attain the limiting distribution using the perturbation expansion of the canonical correlation estimate. We discuss the numerical accuracy of the limiting distribution.

Key words: canonical correlation analysis, perturbation method, principal component

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