

## Forced Classification and Graphical Representation

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### Abstract

Forced classification procedure shown in the dual scaling method by Nishisato is considered as a kind of discriminant analysis and can be applied easily to principal component analysis. A few aspects of forced classification in principal component analysis will be illustrated with an example of application to Family Income and Expenditure Survey in Japan. Tricky graphical representations in principal component analysis will be shown and illustrated by forced classification.