

Content of folder

MATLAB\Example\Multitable scenario

This directory gives examples of performing methods adapted to multitable data sets in the SAISIR environment.

Such data set are represented by a series of matrices having the same number of rows (observations), but not necessarily the same number of variables

It shows how to carry out several methods adapted to multitable data set.

This script is not a lecture on Multitable methods and must be completed by bibliographical information (some references are given in the help of the specific SAISIR functions).

The presented methods are the following

- **Concatenated Principal component analysis** (the tables are simply set at the same sum of squares)
- **Multiple factor analysis** (MFA)
- **STATIS**
- **Generalized canonical analysis** on PC scores
- **ACCPS** (French name of "Common component and specific weights analysis also called 'comdim')
- **ACOM** (analyse en co-inertie et composante commune), analysis of co-inertia with common components)

You must have a MATLAB license and have installed the SAISIR package (see MATLAB\installation directory.)

For starting the script,

- Run MATLAB
- Let MATLAB\Example\Multitable scenario be the current folder.
- Type multidemo followed by [carriage return]

The script makes pauses before each new method. The previous graphics are cleared at each step.

The procedure ACCPS may take a few minutes.

The data set is described in data description

You must also look at the script itself using the MATLAB editor, and activate the script step-by-step.

It is useful in parallel to consult the **SAISIR** tutorials in MATLAB\documentation

For each function, you can consult the help using for example the command 'help ACCOM1' to see the help on 'ACCOM1'

Note: The file X.CSV used as example here has been obtained by

Concepteurs du package CD-Rom de SAISIR©

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in the course of his PhD thesis

Définition et mise en place d'un automate d'extraction en temps réel des caractéristiques physiques des semences sèches

obtained on 29 sept. 2009 at ANGERS (France) University.

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