



# A computer aided software for teaching statistics

Michel Janvier, Gilbert Saporta, Eric Verdoire

► **To cite this version:**

Michel Janvier, Gilbert Saporta, Eric Verdoire. A computer aided software for teaching statistics. First Scientific Meeting of the IASE, International Association for Statistical Education, Aug 1993, Pérouse, Italy. pp.253-254. hal-03061732

**HAL Id: hal-03061732**

**<https://hal-cnam.archives-ouvertes.fr/hal-03061732>**

Submitted on 14 Dec 2020

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

From **Brunelli, Lina & Cicchitelli, Giuseppe (editors). Proceedings of the First Scientific Meeting (of the IASE)**. Università di Perugia (Italy), 1994. Pages 253-254. Copyright holder: University of Perugia. Permission granted by Dipartimento di Scienze Statistiche to the IASE to make this book freely available on the Internet. This pdf file is from the IASE website at <http://www.stat.auckland.nz/~iase/publications/proc1993>. Copies of the complete Proceedings are available for 10 Euros from the ISI (International Statistical Institute). See <http://isi.cbs.nl/sale-iase.htm> for details.

## A COMPUTER AIDED SOFTWARE FOR TEACHING STATISTICS

Michel Janvier

*ERES, Université Montpellier II, Place Eugène Bataillon  
34000 Montpellier, France*

Gilbert Saporta

*CNAM, 292 rue Saint Martin, 75003 Paris, France*

Eric Verdoire

*CNAM, 11 Avenue du Docteur Grasset, 34000 Montpellier, France*

STATCNAM is a software product designed for the teaching of statistics at the first level of technical studies at CNAM: The Conservatoire National des Arts et Métiers is the largest institution in France for continuous education with 100 000 students and a network of 50 regional centres. Several thousands of students are registered each year for the credit "statistical techniques".

The software may be used either

- for distance learning
- for self education
- as a complement of traditional teaching

An intensive use of graphics and simulation is done, and the software includes an analysis of answers.

It is divided into 6 chapters:

1. exploratory data analysis
2. simple linear regression
3. discrete probabilities
4. random variables
5. sampling
6. statistical tests

Chapter 2 is available at publisher STUD-I, Chapters 3 and 4 are in development.

The production of the software is made in association with Université Montpellier II, Unité de Biométrie INRA ENSAM USTL of Montpellier, and the Centre Régional Languedoc Roussillon of the CNAM by a team of teachers and scientists.

A task force defines the educational goals to fulfill and validates the product during each phase of its realisation.

This communication will present the various features of the software which runs on PC compatible computers under DOS or WINDOWS.

The course is not limited to a traditional presentation, it includes many graphical representations. A graphing assistant is part of the software as well as an integrated pocket computer.