

14th January 2004

**INTRODUCTION AND STANDARD
STATISTICAL ANALYSIS**

LECTURES TO:

- DOTTORATO CULTURA E IMPRESA
- DOTTORATO DI ECONOMIA AZIENDALE
- DOTTORATO DI STATISTICA

INTRODUCTION AND CO-ORDINATION BY:

Prof. ROBERTO CORRADETTI – University of Turin

Prof. DARIO GREGORI – Università of Turin

09.00 – 13.00

Strategic Planning Models

Inference from categorical data

The Simpson paradox

The binomial and multinomial distributions

Asymptotic normality

Tests of hypotheses for a binomial proportion

The delta method

14.00 – 17.00

Applications and practical work

15th January 2004

THE STRUCTURE OF ASSOCIATION

09.00 – 13.00

Multi-dimensional contingency tables

The concept of association

Odds ratios and conditional odds ratios

Higher order odds ratios

Mixed parameterization of the cell probabilities

14.00 – 17.00

Applications and practical work

16th January 2004

**STATISTICAL ANALYSIS
OF STRUCTURAL HYPOTHESES**

09.00 – 13.00

Log-linear and logistic models

Maximum likelihood estimates

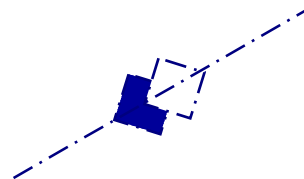
Chi-squared tests of hypotheses

Model selection

Graphical modeling

14.00 – 17.00

Applications and practical work



Booking by e-mail:

Dott.ssa MONICA CUGNO

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Tamás Rudas

Professor of Statistics
Director, Institute of Sociology and Social Policy,
Head, Department of Statistics
Eötvös Loránd University ences
Academic Director, TÁRKI Social Research Institute



Applications and practical work:

Dott. DANIELE COIN

AIM OF THE COURSE:

The course is intended to give to postgraduate students both in statistics and in applied fields, like economics, psychology and medicine the basic knowledge of categorical data analysis, together with some highlights of open issues and forthcoming interests in the scientific debate, to stimulate a common background for future collaborative research projects.

INVITED COLLOQUIA:

Each morning class, basically devoted to theoretical and motivational issues, will be followed by a practical afternoon session, to be conducted in a computer lab using the R software. Case studies from the students are particularly encouraged and will improve the discussion.

ENDORSEMENT:

Fondazione “Franca e Diego de Castro”

SCIENTIFIC COORDINATOR:

Prof. ROBERTO CORRADETTI

INFORMATION:

Dott.ssa MONICA CUGNO
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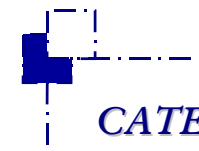
DIPARTIMENTO DI STATISTICA E
MATEMATICA APPLICATA

‘Diego de Castro’

ISASUT – International School of Advanced Study of
the University of Turin –

Professor Tamás Rudas

University of Budapest (Hungary)



CATEGORICAL DATA

ANALYSIS



Turin, January 14th – 15th – 16th 2004

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