

# Course Practical Problems in Quantification

May 16-17 2018

Dipartimento di Statistica, Informatica, Applicazioni "G. Parenti"

viale Morgagni 57/59 Firenze, Aula 32

The course is given in the morning.

## First Day

Introduction: Science: is there a crisis? The case of the p-test (Andrea Saltelli)

Prodromes of PNS: Trans-science; Three types of risk assessment: The rainbow diagram and its evolution; Post-normal science & legacy: Facts-Values, Models of Science & Policy, NUSAP (Silvio Funtowicz)

## Second Day

Ethics of quantification; Sensitivity auditing; the seven rules with illustrations; Quantitative story telling against hypocognition & socially constructed ignorance; A new grammar for modelling? (Andrea Saltelli and Silvio Funtowicz)

The now of science (Silvio Funtowicz and Andrea Saltelli)

## Sponsorship

Sponsorship Italian Region of The International Biometric Society; Societa' Epidemiologia e Prevenzione "G. A. Maccacaro"

## Host Organization:

Dipartimento di Statistica, Informatica, Applicazioni "G. Parenti", Universita' di Firenze

## Suggested Reading (with hyperlinks)

[Funtowicz, S. O., and Ravetz, J. R. 1993. Science for the post-normal age. Futures, 25\(7\), 739-755.](#)

[Funtowicz, S.O. and Ravetz, J.R. \(1994\). The worth of a songbird: Ecological economics as a post-normal science. Ecological Economics 10\(3\), 197-207.](#)

[Andrea Saltelli, Silvio Funtowicz, 2017, What is science's crisis really about? FUTURES, Volume 91, Pages 5-11, <https://doi.org/10.1016/j.futures.2017.05.010>](#)

[Andrea Saltelli, Mario Giampietro, 2017, What is wrong with evidence based policy, and how can it be improved? Futures, 91, 62-71.](#)

[Saltelli, A., Guimarães Pereira, Â., Van der Sluijs, J.P. and Funtowicz, S., 2013, 'What do I make of your latinorum? Sensitivity auditing of mathematical modelling', Int. J. Foresight and Innovation Policy, \(9\), 2/3/4, 213–234.](#)