Specialist Course | Cycle XXXIII
February, 2018 | Campus S. Caterina

Mortality : Empirical Analysis and Forecasting Models

Pietro Millossovich
University of Trieste

Monday	February 19	10.30 – 13.30	Aula Cucconi
		14.30 – 17.30	Aula Cucconi
Tuesday	February 20	09.00 – 12.00	ASID17
		13.00 – 16.00	Aula Cucconi
Wednesday	February 21	09.00 – 12.00	Aula Cucconi
		13.00 – 16.00	ASID 17

Program
www.stat.unipd.it/fare-ricerca/courses-201718-xxxiii-cycle

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- Mortality
    - key metrics
    - life tables
    - some parametric models

- Empirical analysis
    - mortality variations: age, period, gender, country, ...
    - the cohort effect
    - mortality by cause of death

- The **R** package **demography**
    - analysis of a HMD dataset

- Forecasting models
    - overview
    - the Lee-Carter model
    - extensions

- Mortality forecasting with the **R** packages **demography** and **StMoMo**
    - a comparative study of forecasting models

- Multi-population forecasting models, other **R** packages, ... (time permitting)

Slides, references and other material will be provided by the lecturer
Bring your laptop for the **R** sessions