

ISBN: 978-88-8467-874-4

47th SIS Scientific Meeting of the Italian Statistical Society
Cagliari, June 11-13, 2014.

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CUEC Cooperativa Universitaria Editrice Cagliaritana

via Is Mirrionis 1, 09123 Cagliari

Tel. e Fax 070271573

www.cuec.eu

info@cuec.eu

ISBN 978-88-84-67-874-4



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Preface

The edition of this volume gave us the opportunity to perceive that, together with many well-known Italian statisticians belonging to the national and international community, many young researchers are emerging. They presented, at the 47th Scientific Meeting of the Italian Statistical Society, their remarkable contributions, both from the methodological and the applicative point of views.

Although some papers may not look, in their actual form, fully mature from the scientific and communicative point of views, we decided - in agreement with the referees - to publish them since promising and full of ideas. In this respect, the contributions published in this volume provide a comprehensive overview of the current Italian scientific researches in theoretical and applied statistics.

This volume also contains several contributions presented by foreign researchers, highlighting the fact that the Italian Statistical Society has an attractive role in the international scientific community.

Finally, we would like to emphasize that, even from the abstracts of the contributions, the wideness of the collaborations between the statisticians and the experts from other fields emerges. This denotes that, also in Italy, statistical methods are spreading in the different fields of the scientific researches.

Stefano Cabras

Tonio Di Battista

Walter Racugno

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Fertility and Child Mortality in the Sardinian Demographic Transition. Alghero (1866-1935)

Stanislao Mazzoni⁽¹⁾, smazzoni@uniss.it, Lucia Pozzi⁽²⁾, lpozzi@uniss.it, Marco Breschi⁽³⁾, breschi@uniss.it

(1) Università di Sassari (Italy), (2) Università di Sassari (Italy), (3) Università di Sassari (Italy)

Abstract

The reduction in infant and child mortality rates has been considered one of the key factors prompting fertility decline. The relationship between early life mortality and fertility is complex since involves multiple dimensions. Furthermore up to now research on this topic has not permitted to measure adequately the interaction mechanisms involved, since it has mostly relied on aggregate data. This paper aims to explore this complex relationship during the Sardinian demographic transition on the basis of an individual level data set reconstructed for the community of Alghero for the years 1866-1935. Sardinian experience is particularly interesting because the island, where infant mortality rates were amongst the lowest in the country, has known the most delayed fertility decline process.

Full paper:

Persistent Employment Instability and Fertility Intentions

Daria Mendola⁽¹⁾, daria.mendola@unipa.it, Annalisa Busetta⁽²⁾, annalisa.busetta@unipa.it, Daniele Vignoli⁽³⁾, vignoli@disia.unifi.it

(1) Università di Palermo (Italy), (2) Università di Palermo (Italy), (3) Università di Firenze (Italy)

Abstract

Our paper adds to the growing literature on the measurement of employment instability and on that on its consequences on fertility dynamics. Many of these studies disregard that the persistence (duration) in an unstable condition, more than the status itself may have the most severe consequences on subsequent family choices. In this paper, we propose an index of persistence in employment instability (EINI) that synthesizes all the information inside the individual sequence of employment statuses in a single number accounting simultaneously for the duration, sequencing, intensity, and labour market circumstances. Then, we test its impact on short-term childbearing intentions of Italian couples and separately for different parities.

Full paper:

CP14 - ADVANCED IN COMPOSITIONAL DATA ANALYSIS

Chairperson: F. Corradi (Università di Firenze)