

Springer Proceedings in Mathematics & Statistics

Cira Perna · Monica Pratesi
Anne Ruiz-Gazen *Editors*

Studies in Theoretical and Applied Statistics

SIS 2016, Salerno, Italy, June 8–10



Springer Proceedings in Mathematics & Statistics

Volume 227

Springer Proceedings in Mathematics & Statistics

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ISSN 2194-1009 ISSN 2194-1017 (electronic)
Springer Proceedings in Mathematics & Statistics
ISBN 978-3-319-73905-2 ISBN 978-3-319-73906-9 (eBook)
<https://doi.org/10.1007/978-3-319-73906-9>

Library of Congress Control Number: 2018930101

Mathematics Subject Classification (2010): S11001, S17010, S12008, S17040

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Printed on acid-free paper

This Springer imprint is published by the registered company Springer International Publishing AG part of Springer Nature
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface

This book contains a selection of the papers presented during the 48th Scientific Meeting of the Italian Statistical Society (SIS2016), held in Salerno on June 8–10, 2016.

This biennial conference is a traditional national and international meeting for connecting researchers in statistics, demography, and applied statistics in Italy. The conference aims at bringing together national and foreign researchers and practitioners to discuss recent developments in statistical methods for economics, social sciences, and all fields of application of statistics.

The Scientific Programme Committee provided a balanced and stimulating program that appealed to the diverse interests of the participants.

This book of selected papers is organized in chapters each related to a theme discussed in the meeting. In the editing process, we reordered the themes and collapsed some of them. The result still resembles the large variety of topics addressed in Salerno.

From the modern data sources and survey design issues to the study of the measures of sustainable development, the reader can find a large collection of research topics in Statistical Methods and in Applied Statistics and Demography.

In this respect, the papers included in this volume provide a comprehensive overview of the current Italian scientific researches in theoretical and applied statistics.

1. Open data and big data in public administration and official statistics
2. Survey sampling: theory and application
3. A recent debate in Statistics
4. Statistical algorithms
5. Ordinal and symbolic data
6. Statistical models and methods for network data
7. Forecasting time series
8. Spatial analysis
9. Issues on ecological and environmental statistics

10. Statistics and the education system
11. Economic and financial data analysis
12. Sustainable development: theory, measures, and applications

The Scientific Programme Committee, the Session Organizers, the local hosting University, and many volunteers have contributed substantially to the organization of the conference and to the referee process to obtain this book. We acknowledge their work and the support of our Society. Particularly, we wish to thank Marcella Niglio for her continuous support and assistance in the editing of this book.

Wishing you a productive and stimulating reading,

Salerno, Italy
Pisa, Italy
Toulouse, France
October 2017

Cira Perna
Monica Pratesi
Anne Ruiz-Gazen

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