

Springer Series in Statistics

Shlomo Yitzhaki  
Edna Schechtman

# The Gini Methodology

A Primer on a Statistical Methodology

 Springer

# The Gini Methodology 272 Springer Series In Statistics

**Keith Griffin, Zhao Renwei**



## **The Gini Methodology 272 Springer Series In Statistics:**

The Gini Methodology Shlomo Yitzhaki, Edna Schechtman, 2012-11-13 Gini's mean difference GMD was first introduced by Corrado Gini in 1912 as an alternative measure of variability. GMD and the parameters which are derived from it such as the Gini coefficient or the concentration ratio have been in use in the area of income distribution for almost a century. In practice the use of GMD as a measure of variability is justified whenever the investigator is not ready to impose without questioning the convenient world of normality. This makes the GMD of critical importance in the complex research of statisticians, economists, econometricians and policy makers. This book focuses on imitating analyses that are based on variance by replacing variance with the GMD and its variants. In this way the text showcases how almost everything that can be done with the variance as a measure of variability can be replicated by using Gini. Beyond this there are marked benefits to utilizing Gini as opposed to other methods. One of the advantages of using Gini methodology is that it provides a unified system that enables the user to learn about various aspects of the underlying distribution. It also provides a systematic method and a unified terminology. Using Gini methodology can reduce the risk of imposing assumptions that are not supported by the data on the model. With these benefits in mind the text uses the covariance based approach though applications to other approaches are mentioned as well.

**Analysis of Socio-Economic Conditions** Gianni Betti, Achille Lemmi, 2021-03-22 Showcasing fuzzy set theory this book highlights the enormous potential of fuzzy logic in helping to analyse the complexity of a wide range of socio economic patterns and behaviour. The contributions to this volume explore the most up to date fuzzy set methods for the measurement of socio economic phenomena in a multidimensional and or dynamic perspective. Thus far fuzzy set theory has primarily been utilised in the social sciences in the field of poverty measurement. These chapters examine the latest work in this area while also exploring further applications including social exclusion, the labour market, educational mismatch, sustainability, quality of life and violence against women. The authors demonstrate that real world situations are often characterised by imprecision, uncertainty and vagueness which cannot be properly described by the classical set theory which uses a simple true false binary logic. By contrast fuzzy set theory has been shown to be a powerful tool for describing the multidimensionality and complexity of social phenomena. This book will be of significant interest to economists, statisticians and sociologists utilising quantitative methods to explore socio economic phenomena.

Modern Indices for International Economic Diplomacy Vincent Charles, Ali Emrouznejad, 2022-04-01 Composite indices are used by national and international organisations as well as governments and corporations to track various performance aspects of a country's economy and its people evaluate progress and engage constructively in policy dialogue and they have long proven useful as communication tools and inputs into decision making and policymaking. Modern Indices for International Economic Diplomacy compiles a spectrum of relevant indices for development and well being used in benchmarking across nations namely the OECD Better Life Index, the Gini Index, the Gender Equality Inequality Index, the

International Energy Security Risk Index the Big Mac Index the Country Risk Index the Corruption Perceptions Index and the Global Terrorism Index The book will be relevant to practitioners policymakers researchers and students interested in the topic of international economic relationships      **Introduction to Statistical Decision Theory** Silvia Bacci,Bruno

Chiandotto,2019-07-11 Introduction to Statistical Decision Theory Utility Theory and Causal Analysis provides the theoretical background to approach decision theory from a statistical perspective It covers both traditional approaches in terms of value theory and expected utility theory and recent developments in terms of causal inference The book is specifically designed to appeal to students and researchers that intend to acquire a knowledge of statistical science based on decision theory

Features Covers approaches for making decisions under certainty risk and uncertainty Illustrates expected utility theory and its extensions Describes approaches to elicit the utility function Reviews classical and Bayesian approaches to statistical inference based on decision theory Discusses the role of causal analysis in statistical decision theory      **Mathematical and**

**Statistical Methods for Actuarial Sciences and Finance** Marco Corazza,Pizzi Claudio,2011-06-07 This book features selected papers from the international conference MAF 2008 that cover a wide variety of subjects in actuarial insurance and financial fields all treated in light of the successful cooperation between mathematics and statistics      **Statistical Analysis**

**of Microbiome Data** Somnath Datta,Subharup Guha,2021-10-27 Microbiome research has focused on microorganisms that live within the human body and their effects on health During the last few years the quantification of microbiome composition in different environments has been facilitated by the advent of high throughput sequencing technologies The statistical challenges include computational difficulties due to the high volume of data normalization and quantification of metabolic abundances relative taxa and bacterial genes high dimensionality multivariate analysis the inherently compositional nature of the data and the proper utilization of complementary phylogenetic information This has resulted in an explosion of statistical approaches aimed at tackling the unique opportunities and challenges presented by microbiome data This book provides a comprehensive overview of the state of the art in statistical and informatics technologies for microbiome research In addition to reviewing demonstrably successful cutting edge methods particular emphasis is placed on examples in R that rely on available statistical packages for microbiome data With its wide ranging approach the book benefits not only trained statisticians in academia and industry involved in microbiome research but also other scientists working in microbiomics and in related fields      *Key Topics in Surgical Research and Methodology* Thanos Athanasiou,H. Debas,Ara Darzi,2010-02-28

*Key Topics in Surgical Research and Methodology* represents a comprehensive reference text accessible to the surgeon embarking on an academic career Key themes emphasize and summarize the text Four key elements are covered i e Surgical Research Research Methodology Practical Problems and Solutions on Research as well as Recent Developments and Future Prospects in Surgical Research and Practice      **Metron** Corrado Gini,2004 Includes list of publications received

Stochastic Orders and Applications Karl Mosler,Marco Scarsini,2012-12-06 A bibliography on stochastic orderings Was

there a real need for it In a time of reference databases as the MathSci or the Science Citation Index or the Social Science Citation Index the answer seems to be negative The reason we think that this bibliography might be of some use stems from the frustration that we as workers in the field have often experienced by finding similar results being discovered and proved over and over in different journals of different disciplines with different levels of mathematical sophistication and accuracy and most of the times without cross references Of course it would be very unfair to blame an economist say for not knowing a result in mathematical physics or vice versa especially when the problems and the languages are so far apart that it is often difficult to recognize the analogies even after further scrutiny We hope that collecting the references on this topic regardless of the area of application will be of some help at least to pinpoint the problem We use the term stochastic ordering in a broad sense to denote any ordering relation on a space of probability measures Questions that can be related to the idea of stochastic orderings are as old as probability itself Think for instance of the problem of comparing two gambles in order to decide which one is more favorable

### **Inequalities During and After Transition in Central and Eastern Europe**

Cristiano Perugini, Fabrizio Pompei, 2015-07-28 The book deals with the key aspects of social and economic inequalities developed during the transition of the formerly planned European economies Particular emphasis is given to the latest years available in order to consider the effects of the global crisis started in 2008 2009

### **The Distribution of Income in China**

Keith Griffin, Zhao Renwei, 2016-07-27 Based on original data obtained from a purpose designed nationwide household sample survey the volume contains studies of the overall distribution of income inequality and poverty in rural areas wage employment in rural industries urban wage inequalities and the relationship between education and income An appendix describes the household sample survey

### **Scientific and Technical Books and Serials in Print ,1984 Mathematical**

**Reviews ,2004** Variance Estimation and Prediction of Gini Coefficient for Income Distribution Using Asymptotic Expansions and Resampling Methods Christos C. Frangos, 2014 In the present paper we consider the Coefficient of Gini Kendall and Stuart 1982 for income distribution This statistic is derived from data showing the annual taxes paid by the Greek taxpayers for years 1960 to 1996 An intractable issue is the estimation of its variance because of the complication of its distribution Applying von Mises asymptotic expansions for differentiable statistical functionals Hinkley 1978 Frangos 1980 we estimate the variance of Gini coefficient for a set of frequency data regarding a particular year Robust confidence intervals for Gini coefficient are constructed using the jackknife statistical methodology Treating the series of Gini estimates from 1960 from to 1996 as a time series from an autoregressive model we estimate its parameters using the bootstrap methodology Davison and Hinkley 1997 and we compare the bootstrap confidence intervals for the parameters with the least squares ones Finally three autoregressive models for prediction of Gini Coefficient are compared with respect to their predictive errors A simple autoregressive model is selected for prediction purposes The above comparisons support the argument of a clear superiority of the bootstrap confidence intervals with respect to their length over the quot classicalquot

method of least squares

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