The Work of Raymond J. Carroll

The Impact and Influence of a Statistician

This volume contains Raymond J. Carroll's research and commentary on its impact by leading statisticians. Each of the seven main parts focuses on a key research area: Measurement Error, Transformation and Weighting, Epidemiology, Nonparametric and Semiparametric Regression for Independent Data, Nonparametric and Semiparametric Regression for Dependent Data, Robustness, and other work. The seven subject areas reviewed in this book were chosen by Ray himself, as were the articles representing each area. The commentaries not only review Ray's work, but are also filled with history and anecdotes. Raymond J.

Features
- 41 papers of Raymond J. Carroll in one volume with original commentary by noted statisticians
- Features defining developments in Nonparametric and Semiparametric Statistics
- Shows influence on applied areas, in particular creation of methodology for nutritional epidemiology

Contents
Measurement Error - Transformation and Weighting - Epidemiology - Nonparametric and Semiparametric Regression for Independent Data - Nonparametric and Semiparametric Regression for Dependent Data - Robustness - Other Work Article list for each of these areas in attachment.

Fields of interest
Statistical Theory and Methods; Statistics for Life Sciences, Medicine, Health Sciences; Epidemiology

Target groups
Research

Product category
Collected works

Due June 2014

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Features
- No matter the statistical software program you use, this book will teach you to apply crucial statistical methods to research questions
- Definitive introductory text in statistics is developed for students in agriculture, nursing, biology and biomedical research to showcase development of new tools and theories for analysis, diagnostics and methodology
- Unique combination of examples are approached from different perspectives
- Features fully optimized ebook and electronic supplementary material for easy use

Contents

Fields of interest
Statistics for Life Sciences, Medicine, Health Sciences; Statistical Theory and Methods; Statistics and Computing/Statistics Programs

Target groups
Upper undergraduate

Product category
Graduate/Advanced undergraduate textbook

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New Advances in Statistical Modeling and Applications

Contents

Fields of interest
Statistical Theory and Methods; Probability Theory and Stochastic Processes

Target groups
Research

Product category
Contributed volume

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Statistics
T. J. Quirk, S. Cummings, Webster University, St. Louis, MO, USA

Excel 2010 for Health Services Management Statistics
A Guide to Solving Practical Problems

Features
- Statistical theory and formulas are explained in clear language without bogging you down in mathematical fine points
- You will be told each step of the way, not only how to use Excel, but also why you are doing each step
- You will learn both how to write statistical formulas and how to use drop-down menus to have Excel create formulas for you
- Includes 160 color screen shots so you can be sure you are performing Excel steps correctly
- Each chapter includes specific objectives for each concept so you know the purpose of the Excel steps
- Each chapter presents key steps needed to solve practical, easy-to-understand health services management problems using Excel
- Practical examples of problems are taken from several areas in health services management
- A "Practice Test" is given in Appendix B to test your knowledge at the end of the book. Answers appear in Appendix C
- This book purposely does include a CD of Excel files.

Contents
Sample Size, Mean, Standard Deviation and Standard Error of the Mean.- Random Number Generator.- Confidence Interval About the Mean Using the TINV Function and Hypothesis Testing.- One-Group t-Test for the Mean.- Two-Group t-Test of the Difference of the Means for Independent Groups.- Correlation and Simple Linear Regression.- Multiple Correlation and Multiple Regression.- ANOVA.- Appendices.- Index.

Fields of interest
Statistics for Life Sciences, Medicine, Health Sciences; Health Care Management; Health Administration

Target groups
Upper undergraduate

Product category
Graduate/Advanced undergraduate textbook

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M. Stemmler, University of Erlangen-Nuremberg, Erlangen, Germany

Person-Centered Methods
Configural Frequency Analysis (CFA) and Other Methods for the Analysis of Contingency Tables

This book takes an easy-to-understand look at the statistical approach called the person-centered method. Instead of analyzing means, variances and covariances of scale scores as in the common variable-centered approach, the person-centered approach analyzes persons or objects grouped according to their characteristic patterns or configurations in contingency tables. The main focus of the book will be on Configural Frequency Analysis (CFA; Lienert and Krauth, 1975) which is a statistical method that looks for over and under-frequented cells or patterns.

Features
- Teaches statistical methods in an approachable format for scholars in the Social Sciences
- Includes software demonstrations with open source software package R that is available through CRAN
- Uses a different approach than standard statistics (person- instead of variable-centered approach)

Contents

Fields of interest
Statistics for Social Science, Behavioral Science, Education, Public Policy, and Law; Statistical Theory and Methods; Statistics, general

Target groups
Research

Product category
Brief

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