

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series)

By Mithat Gonen

Download now

Read Online ➔

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen


As a diagnostic decision-making tool, receiver operating characteristic (ROC) curves provide a comprehensive and visually attractive way to summarize the accuracy of predictions. They are used extensively in medical diagnosis and increasingly in fields such as data mining, credit scoring, weather forecasting, and psychometry. In *Analyzing Receiver Operating Characteristic Curves with SAS*, author Mithat Gonen illustrates the many existing SAS procedures that can be tailored to produce ROC curves and expands upon further analyses using other SAS procedures and macros. Both parametric and nonparametric methods for analyzing ROC curves are covered in detail.

Topics addressed include:

- Appropriate methods for binary, ordinal, and continuous measures
- Computations using PROC FREQ, PROC LOGISTIC, PROC NLMIXED, and macros
- Comparing the ROC curves of several markers and adjusting them for covariates
- ROC curves with censored data
- Using the ROC curve for evaluating multivariable prediction models via bootstrap and cross-validation
- ROC curves in SAS Enterprise Miner
- And more!

Written for any statistician interested in learning more about ROC curve methodology, the book assumes readers have a basic understanding of regression procedures and moderate familiarity with Base SAS and SAS/STAT. Some familiarity with SAS/GRAPH is helpful but not essential.

This book is part of the SAS Press program.

 [**Download** Analyzing Receiver Operating Characteristic Curves ...pdf](#)

 [**Read Online** Analyzing Receiver Operating Characteristic Curv ...pdf](#)

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series)

By Mithat Gonen

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen

As a diagnostic decision-making tool, receiver operating characteristic (ROC) curves provide a comprehensive and visually attractive way to summarize the accuracy of predictions. They are used extensively in medical diagnosis and increasingly in fields such as data mining, credit scoring, weather forecasting, and psychometry. In *Analyzing Receiver Operating Characteristic Curves with SAS*, author Mithat Gonen illustrates the many existing SAS procedures that can be tailored to produce ROC curves and expands upon further analyses using other SAS procedures and macros. Both parametric and nonparametric methods for analyzing ROC curves are covered in detail.

Topics addressed include:


- Appropriate methods for binary, ordinal, and continuous measures
- Computations using PROC FREQ, PROC LOGISTIC, PROC NLMIXED, and macros
- Comparing the ROC curves of several markers and adjusting them for covariates
- ROC curves with censored data
- Using the ROC curve for evaluating multivariable prediction models via bootstrap and cross-validation
- ROC curves in SAS Enterprise Miner
- And more!

Written for any statistician interested in learning more about ROC curve methodology, the book assumes readers have a basic understanding of regression procedures and moderate familiarity with Base SAS and SAS/STAT. Some familiarity with SAS/GRAPH is helpful but not essential.

This book is part of the SAS Press program.

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen Bibliography

- Sales Rank: #1907795 in Books
- Published on: 2015-04-17
- Released on: 2015-04-17
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x .35" w x 8.50" l, .80 pounds
- Binding: Paperback
- 148 pages

 [**Download** Analyzing Receiver Operating Characteristic Curves ...pdf](#)

 [**Read Online** Analyzing Receiver Operating Characteristic Curv ...pdf](#)

Download and Read Free Online Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen

Editorial Review

Review

"Mithat Gönen has produced the best text to date regarding receiver operating characteristic (ROC) curves and their use in statistical analysis. He provides insight into how ROC curve analysis can be used to assess the accuracy of predictions and forecasts. The book is easy to read and comprehend and has a wealth of SAS programming examples from business, science, and medicine. The author covers all the essential approaches to analyzing receiver operating characteristic curves. I highly recommend this book!" --William F.

McCarthy, Ph.D., Director, Clinical Trials, Clinical Statistics and SAS Programming, Maryland Medical Research Institute, Baltimore, MD

"ROC curves may seem quite mysterious at first; what does a "receiver operating characteristic curve" have to do with biological or biomedical phenomena? Dr. Gönen's lucid and well-organized book dispels the ROC mystery and enables ready adoption of this exciting methodology. The mixture of clearly articulated theory and development of topics with SAS code and review of SAS output throughout the text is very effective for the introduction of this material the examples are focused and well-designed. In sum, I heartily recommend Dr. Gönen's fine book." Robert Singer, M.S. PDL BioPharma --Robert Singer, M.S., PDL BioPharma

About the Author

Mithat Gönen is an Associate Attending Biostatistician at Memorial Sloan-Kettering Cancer Center, where he specializes in clinical trial design, medical diagnostic tests, and predictive model development. A SAS user since 1991, he is the author of numerous professional papers and a member of the American Statistical Association and the International Biometric Society. Mithat received a B.S. in Electrical Engineering from Middle East Technical University, an M.S. in Industrial Engineering from Stanford University, and an M.S. and Ph.D. in Statistics from Texas Tech University.

Users Review

From reader reviews:

Carrie Rivas:

Here thing why this specific Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) are different and trusted to be yours. First of all reading a book is good but it really depends in the content from it which is the content is as yummy as food or not. Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) giving you information deeper and in different ways, you can find any guide out there but there is no publication that similar with Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series). It gives you thrill reading through journey, its open up your eyes about the thing in which happened in the world which is possibly can be happened around you. You can actually bring everywhere like in area, café, or even in your method home by train. If you are having difficulties in bringing the printed book maybe the form of Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) in e-book can be your option.

Kevin Ostby:

The reason? Because this Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) is an unordinary book that the inside of the reserve waiting for you to snap the idea but latter it will distress you with the secret the idea inside. Reading this book close to it was fantastic author who have write the book in such remarkable way makes the content within easier to understand, entertaining method but still convey the meaning completely. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This excellent book will give you a lot of benefits than the other book get such as help improving your proficiency and your critical thinking way. So , still want to hesitate having that book? If I have been you I will go to the guide store hurriedly.

Mary Goldstein:

This Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) is great publication for you because the content which is full of information for you who all always deal with world and get to make decision every minute. That book reveal it facts accurately using great organize word or we can claim no rambling sentences inside it. So if you are read the item hurriedly you can have whole details in it. Doesn't mean it only provides you with straight forward sentences but challenging core information with splendid delivering sentences. Having Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) in your hand like having the world in your arm, facts in it is not ridiculous one. We can say that no publication that offer you world throughout ten or fifteen tiny right but this book already do that. So , it is good reading book. Hey there Mr. and Mrs. busy do you still doubt that will?

Paul Moore:

Don't be worry for anyone who is afraid that this book can filled the space in your house, you might have it in e-book way, more simple and reachable. This Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) can give you a lot of buddies because by you investigating this one book you have issue that they don't and make anyone more like an interesting person. This kind of book can be one of one step for you to get success. This reserve offer you information that maybe your friend doesn't realize, by knowing more than additional make you to be great individuals. So , why hesitate? We should have Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series).

Download and Read Online Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen #Z8M3JEUGBT4

Read Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen for online ebook

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen books to read online.

Online Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen ebook PDF download

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen Doc

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen Mobipocket

Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen EPub

Z8M3JEUGBT4: Analyzing Receiver Operating Characteristic Curves with SAS (Sas Press Series) By Mithat Gonen