



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

By Mithat Gonen

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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 NLIN, 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.

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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.

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Carrie Rivas:

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