



# Analyzing Receiver Operating Characteristic Curves With SAS (Sas Press Series)

*Mithat Gonen*

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## **Analyzing Receiver Operating Characteristic Curves With SAS (Sas Press Series)** 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.

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