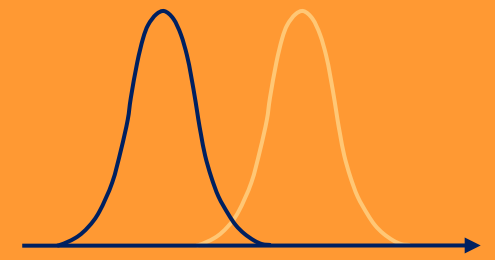
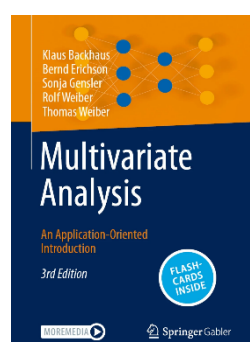


DISCRIMINANT ANALYSIS



MAIN RESEARCH QUESTION	DO THE INDEPENDENT VARIABLES DIFFERENCES BETWEEN GROUPS?
EXAMPLE	DISTINCTION OF VOTERS OF DIFFERENT PARTIES BASED ON SOCIO-DEMOGRAPHIC AND PSYCHOGRAPHIC CHARACTERISTICS
TYPE OF ANALYSIS	STRUCTURE-TESTING METHOD
MEASUREMENT LEVEL	
DEPENDENT VARIABLE	NOMINAL/ORDINAL (TWO OR MORE LEVELS)
INDEPENDENT VARIABLES	METRIC
RECOMMENDATIONS	<ul style="list-style-type: none">▪ THE NUMBER OF DESCRIBING VARIABLES SHOULD BE GREATER THAN THE NUMBER OF GROUPS.▪ YOU SHOULD MAKE A MINIMUM OF 20 OBSERVATIONS PER DESCRIBING VARIABLE, AND EACH GROUP SHOULD ENCOMPASS AT LEAST 20 OBSERVATIONS.▪ A SAMPLE SHOULD BE LARGE ENOUGH TO TEST FOR EXTERNAL VALIDITY (SPLIT-HALF ANALYSIS) AND EACH HALF SHOULD MEET THE ABOVE-MENTIONED REQUIREMENTS.▪ CHECK THE EQUALITY OF WITHIN-GROUP VARIANCE-COVARIANCE MATRICES WITH BOX'S M TEST. IF NECESSARY, USE SEPARATE-GROUP VARIANCE-COVARIANCE MATRICES INSTEAD OF POOLED MATRICES.▪ IN MULTI-GROUP DISCRIMINANT ANALYSIS, NOT ALL POSSIBLE BUT ONLY SIGNIFICANT DISCRIMINANT FUNCTIONS SHOULD BE CONSIDERED.
KEYWORDS	A PRIORI PROBABILITY, A POSTERIORI PROBABILITY, BAYES THEOREM, CONDITIONAL PROBABILITY, CLASSIFICATION FUNCTION, CLASSIFICATION MATRIX, CLASSIFICATION SCORE, CANONICAL CORRELATION, COST OF MISCLASSIFICATION, DISCRIMINANT AXIS, DISCRIMINANT COEFFICIENT, DISCRIMINANT CRITERION, (FISHER'S) DISCRIMINANT FUNCTION, EIGENVALUE , F-TEST, HIT RATE, LEAVE-ONE-OUT METHOD, SPLIT-HALF METHOD, WILKS' LAMBDA



BACKHAUS, KLAUS; ERICHSON, BERND; GENSLER, SONJA; WEIBER, ROLF; WEIBER, THOMAS (2025)
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