



Computerized Adaptive Testing

**Jian-quan Tian, Dan-min Miao, Xia
Zhu, Jing-jing Gong**



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Computerized Adaptive Testing Howard Wainer, Neil J. Dorans, Ronald Flaugher, Bert F. Green, Robert J. Mislevy, 2000-04-01 This celebrated primer presents an introduction to all of the key ingredients in understanding computerized adaptive testing technology test development statistics and mental test theory Based on years of research this accessible book educates the novice and serves as a compendium of state of the art information for professionals interested in computerized testing in the areas of education psychology and other related social sciences A hypothetical test taken as a prelude to employment is used as a common example throughout to highlight this book s most important features and problems Changes in the new edition include a completely rewritten chapter 2 on the system considerations needed for modern computerized adaptive testing a revised chapter 4 to include the latest in methodology surrounding online calibration and in the modeling of testlets and a new chapter 10 with helpful information on how test items are really selected usage patterns how usage patterns influence the number of new items required and tools for managing item pools

Computerized Adaptive Testing David J. Weiss, Alper Sahin, 2024-06-03 CAT is the use of artificial intelligence and machine learning to create a test unique to each person in real time CAT From Concept to Implementation is designed to take you from your initial decision to implement a CAT through each step in the process of fielding a CAT that will provide its benefits both to your examinees and to your organization It describes how CATs are developed and how they are implemented using current advanced psychometric methods

Computerized Adaptive Testing William A. Sands, Brian K. Waters, James R. McBride, 1997 This book traces the development of computerized adaptive testing CAT from its origins in the 1960s to its integration with the Armed Services Vocational Aptitude Battery ASVAB in the 1990s A paper and pencil version of the battery P P ASVAB has been used by the Defense Department since the 1970s to measure the abilities of applicants for military service The test scores are used both for initial qualification and for classification into entry level training opportunities This volume provides the developmental history of the CAT ASVAB through its various stages in the Joint Service arena Although the majority of the book concerns the myriad technical issues that were identified and resolved information is provided on various political and funding support challenges that were successfully overcome in developing testing and implementing the battery into one of the nation s largest testing programs The book provides useful information to professionals in the testing community and everyone interested in personnel assessment and evaluation PsycINFO Database Record c 2004 APA all rights reserved

Computerized Adaptive Testing: Theory and Practice Wim J. van der Linden, Cees A.W. Glas, 2010-12-01 This book offers a comprehensive introduction to the latest developments in the theory and practice of CAT It can be used both as a basic reference and a valuable resource on test theory It covers such topics as item selection and ability estimation item pool development and maintenance item calibration and model fit and testlet based adaptive testing as well as the operational aspects of existing large scale CAT programs *An Introduction to*

the Computerized Adaptive Testing Jian-quan Tian, Dan-min Miao, Xia Zhu, Jing-jing Gong, 2007 Computerized adaptive testing CAT has unsurpassable advantages over traditional testing It has become the mainstream in large scale examinations in modern society This paper gives a brief introduction to CAT including differences between traditional testing and CAT the principles of CAT psychometric theory and computer algorithms of CAT the advantages and cautions of CAT In the end the development of CAT in China is reviewed Contains 1 figure and 1 table

Computerized Adaptive Testing (CAT) Navy Personnel Research and Development Center, 1984

Computerized Adaptive Testing (CAT) Susan Hardwick, Navy Personnel Research and Development Center (U.S.), R. Cooper, L. Eastman, F. L. Vicino, NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CA., 1984 A joint service effort is underway to develop a computerized adaptive testing CAT system and to evaluate its potential for replacing the paper and pencil Armed Forces Vocational Aptitude Battery used for military personnel classification and assignment To enable evaluation of CAT's operations psychometric characteristics and predictive utility a prototype system was developed for use in assessing the feasibility of CAT with Army Air Force Marine Corps and Navy recruits This report provides a user manual describing the experimental CAT system hardware and procedures for administering personnel classification tests on the system Author

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Elements of Adaptive Testing Wim J. van der Linden, Cees A.W. Glas, 2010-03-10 The arrival of the computer in educational and psychological testing has led to the current popularity of adaptive testing a testing format in which the computer uses statistical information about the test items to automatically adapt their selection to a real time update of the test taker's ability estimate This book covers such key features of adaptive testing as item selection and ability estimation adaptive testing with multidimensional abilities sequencing adaptive test batteries multistage adaptive testing item pool design and maintenance estimation of item and item family parameters item and person fit as well as adaptive mastery and classification testing It also shows how these features are used in the daily operations of several large scale adaptive testing programs

New Horizon Testing David J. Weiss, 2014-06-28 New Horizon Testing

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Adaptive and Multistage Testing with R David Magis, Duanli Yan, Alina A. von Davier, 2017-11-23 The goal of this guide and manual is to provide a practical and brief overview of the theory on computerized adaptive testing CAT and multistage testing MST and to illustrate the methodologies and applications using R open source language and several data examples Implementation relies on the R packages catR and mstR that have been already or are being developed by the first author with the team and that include some of the newest research algorithms on the topic The book covers many topics along with the R code the basics of R theoretical overview of CAT and MST CAT designs CAT assembly methodologies CAT simulations catR package CAT applications MST designs IRT based MST methodologies tree based MST methodologies mstR package and MST applications CAT has been used in many large scale assessments over recent decades and MST has become very popular in recent years R open source language also has become one of the most useful tools for applications in almost all fields including business and education Though very useful and popular R is a difficult language to learn with a steep learning curve Given the obvious need for but with the complex implementation of CAT and MST it is very difficult for users to simulate or implement CAT and MST Until this manual there has been no book for users to design and use CAT and MST easily and without expense i e by using the free R software All examples and illustrations are generated using predefined scripts in R language available for free download from the book s website

An Applied Study on Computerized Adaptive Testing Wouter Schoonman, 1989 *Issues in Computer-Adaptive Testing of Reading Proficiency* Micheline Chalhoub-Deville, 2000-03-23 The focus of this book is computer based assessment of the receptive skills

Computer-Based Testing Craig N. Mills, Maria T. Potenza, John J. Fremer, William C. Ward, 2005-04-11 Although computer based tests CBT have been administered for many years improvements in the speed and power of computers coupled with reductions in their cost have made large scale computer delivery of tests increasingly feasible CBT is now a common form of test delivery for licensure certification and admissions tests Many large scale high stakes testing programs have introduced CBT either as an option or as the sole means of test delivery Although this movement to CBT has to a great extent been successful it has not been without problems Advances in psychometrics are required to ensure that those who rely on test results can have at least the same confidence in CBTs as they have in traditional forms of assessment This volume stems from an ETS sponsored colloquium in which more than 200 measurement professionals from eight countries and 29 states convened to assess the current and future status of CBT The formal agenda for the colloquium was divided into three major segments Test Models Test Administration and Test Analysis and Scoring Each segment consisted of several presentations followed by comments from noted psychometricians and a break out session in which presenters and discussants identified important issues and established priorities for a CBT research agenda This volume contains the papers presented at the colloquium the discussant remarks based on those papers and the research agenda that was generated from the break out sessions Computer Based Testing Building the Foundation for Future Assessments is must reading for

professionals scholars and advanced students working in the testing field as well as people in the information technology field who have an interest in testing

Computerized Multistage Testing Duanli Yan, Alina A. von Davier, Charles Lewis, 2016-04-19 Unlike other forms of adaptive testing multistage testing MST is highly suitable for testing educational achievement because it can be adapted to educational surveys and student testing This volume provides the first unified source of information on the design psychometrics implementation and operational use of MST It shows how to apply theoretical statistical tools to testing in novel and useful ways It also explains how to explicitly tie the assumptions made by each model to observable or at least inferable data conditions

Practical Questions in Introducing Computerized Adaptive Testing for K-12 Assessments Walter D. Way, 2006 In this paper a number of practical questions related to introducing CAT for K 12 assessments are discussed These questions relate to four main topic areas 1 the CAT algorithm 2 CAT item development 3 the CAT test delivery system and 4 psychometrics to support CAT In considering these questions we describe some of the successful practices that have been used in operational high stakes CAT programs as well as the challenges these programs face This discussion is aimed to assist state departments of education in considering the use of CAT as they move to transition testing programs to online delivery in the future

CATBOOK Computerized Adaptive Testing: From Inquiry to Operation, 1999 HumRRO contracted with ARI sponsored by OASD P CAT ASVAB system design issues and CAT ASVAB evaluation It provides reference information useful to practitioners developing a computerized testing system

Computerized Adaptive Testing in Kinanthropology Martin Komarc, 2018 C le m t to publikace je p edstaven st le popul rn j metody po ta ov ho adaptivn ho testov n CAT v oblasti kinantropologie P izp soben m testu rovni jednotliv ch respondent nab z CAT adu teoretick ch a metodologick ch v hod kter mohou v razn ovlivnit testov n teoretick ch konstrukt Prvn st monografie se v nuje historick m teoretick ch a koncepn m z klad m CAT v etn popisu Teorie odpov di na polo ku IRT Praktick aplikace CAT je posl ze ve druh sti hodnocena pomoc Monte Carlo simulac na p kladu Physical Self Description Questionnaire n stroje kter je iroce pou v n k hodnocen t lesn ho sebepojet v oblasti psychologie a psychologie sportu

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Practical Considerations in Computer-Based Testing Cynthia G. Parshall, 2002 This book emphasizes the practical side of computer based testing and presents suggestions information and ideas for its actual implementation It provides information that can be used to make informed decisions including the type of computer based test that should be administered possible cost to examinees examinee reactions to the test scoring issues computer mode effects and many more

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