Computerized Attribute-Adaptive Testing: A New Computerized Adaptive Testing Approach Incorporating Cognitive Psychology

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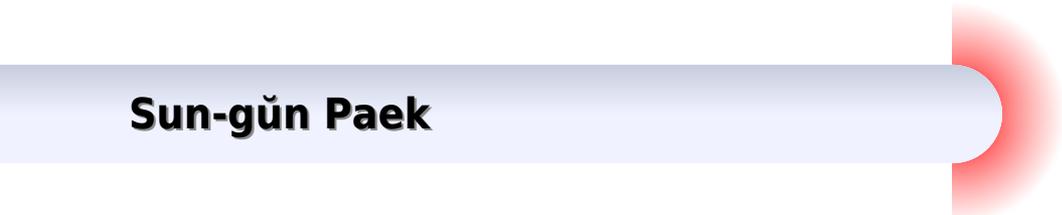### University of Alberta

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2007 GMAC® Conference on Computerized Adaptive Testing

Applied Study On Computerized Adaptive Testing

Sun-gŭn Paek

Applied Study On Computerized Adaptive Testing:

   An Applied Study on Computerized Adaptive Testing Wouter Schoonman,1989   **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: Theory and Practice Wim J. van der Linden,Cees A. W. Glas,2000-07-31 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   Computerized Adaptive Testing David J. Weiss,Alper Sahin,2024-04-29 Used worldwide in assessment and professional certification contexts computerized adaptive testing CAT offers a powerful means to measure individual differences or make classifications This authoritative work from CAT pioneer David J Weiss and Alper ahin provides a complete how to guide for planning and implementing an effective CAT to create a test unique to each person in real time The book reviews the history of CAT and the basics of item response theory used in CAT It walks the reader through developing an item bank pretesting and linking items selecting required CAT options and using simulations to design a CAT Available software for CAT delivery is described including links to free and commercial options Engaging multidisciplinary examples illustrate applications of CAT for measuring ability achievement proficiency personality attitudes perceptions patients reports of their symptoms and academic or clinical progress   *Computerized 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   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   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 **Computerized Adaptive Attitude Testing Using the Partial Credit Model** Sun-gŭn Paek,1993 *The Oxford Handbook of Applied Linguistics* Robert B. Kaplan,2010-09-03 The Oxford Handbook of Applied Linguistics contains 39 original chapters on a broad range of topics in applied linguistics by a diverse group of contributors Its goal is to provide a comprehensive survey of the current state of the field the many connections among its various sub disciplines and the likely directions of its future development The Oxford Handbook of Applied Linguistics addresses a broad audience applied linguists educators and other scholars working in language acquisition language learning language planning teaching and testing and linguists concerned with applications of their work Systematically encompassing the major areas of applied linguistics and drawing from a wide range of disciplines such as education language policy bi and multi lingualism literacy language and gender neurobiology of language psycholinguistics and cognition language and computers discourse analysis language and concordances ecology of language pragmatics translation and many other fields the editors and contributors to The Oxford Handbook of Applied Linguistics provide a panoramic and comprehensive look at this complex and vigorous field This second edition includes five new chapters and the remaining chapters have been thoroughly revised and updated to give a clear picture of the current state of applied linguistics *Self-directed Learning Oriented Assessments in the Asia-Pacific* Magdalena Mo Ching Mok,2012-10-09 The Asia Pacific region needs to maximize the benefits of education to enable it to compete in an economic future dominated by innovation in which assessing student progress must be an empowering rather than delimiting factor This detailed exposition of the theoretical basis and application tools of self directed learning oriented assessment SLOA reflects the very latest research championed by the Assessment Research Centre at The Hong Kong Institute of Education Featuring a range of relevant case studies it explores the varied theoretical issues related to SLOA and offers an integrated view of the system fully in line with the constructivist paradigm of learning which advocates formative rather than summative assessment Many of the initiatives outlined here are firsts in the region SLOA is already being applied in many schools with links to the ARC It is an approach to assessment that acknowledges the centrality of self directed learning and which positions assessment as a tool to enable and enhance self directed learning It draws on several theories of learning and assessment including the constructivist notion that learning is best achieved when students take ownership of their educational process setting their own goals and monitoring their own progress towards those goals SLOA has been the research and service approach of the ARC since 2005 In the intervening years the centre has developed a number of tools to facilitate SLOA learning and assessment including vertical ability scales teacher friendly computer software and packages for self directed learning *A Comparative Study of Item Exposure Control Methods in Computerized Adaptive Testing* Shun-Wen Chang,1998 **The Effects of Person Misfit in Computerized Adaptive Testing** Michael Leslie Nering,1996 International Encyclopedia of Education ,2009-04-17 The field of education has experienced extraordinary technological societal and institutional change in recent years making it one of the most

fascinating yet complex fields of study in social science Unequalled in its combination of authoritative scholarship and comprehensive coverage International Encyclopedia of Education Third Edition succeeds two highly successful previous editions 1985 1994 in aiming to encapsulate research in this vibrant field for the twenty first century reader Under development for five years this work encompasses over 1 000 articles across 24 individual areas of coverage and is expected to become the dominant resource in the field Education is a multidisciplinary and international field drawing on a wide range of social sciences and humanities disciplines and this new edition comprehensively matches this diversity The diverse background and multidisciplinary subject coverage of the Editorial Board ensure a balanced and objective academic framework with 1 500 contributors representing over 100 countries capturing a complete portrait of this evolving field A totally new work revamped with a wholly new editorial board structure and brand new list of meta sections and articles Developed by an international panel of editors and authors drawn from senior academia Web enhanced with supplementary multimedia audio and video files hotlinked to relevant references and sources for further study Incorporates ca 1 350 articles with timely coverage of such topics as technology and learning demography and social change globalization and adult learning to name a few Offers two content delivery options print and online the latter of which provides anytime anywhere access for multiple users and superior search functionality via ScienceDirect as well as multimedia content including audio and video files   *Proceedings of the 1977 Computerized Adaptive Testing Conference Held at the University of Minnesota, July 19-22, 1977* David J. Weiss,1978   *Detection of Advance Item Knowledge Using Response Times in Computer Adaptive Testing* Rob R. Meijer,2006   *Optimal Item Pool Design for a Highly Constrained Computerized Adaptive Test* Wei He,2010   Application of Item Response Theory Based Computerized Adaptive Testing to the Strong Interest Inventory Mark G. Scullard,2007   **Bulletin of the Council for Research in Music Education** Council for Research in Music Education,1992   Update: Applications of Research in Music Education ,1992   **Psychological Testing and Assessment** Lewis R. Aiken,1997 The aim of this textbook is to help students understand the construction and use of tests in psychological educational and employment settings The goal is to make psychological testing and assessment an interesting and important field of study This revision not only updates information throughout the text but also strengthens the coverage of several key issues such as the methodological aspects of testing and the research on and theories of intelligence Also greater emphasis has been placed on applications of psychological testing in education clinical and industrial organizational settings

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