



Developing Computerized Adaptive Testing for a National Health Professionals Exam: An Attempt from Psychometric Simulations

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ABSTRACT

Introduction: The accurate assessment of health professionals' competence is critical for ensuring public health safety and quality of care. Computerized Adaptive Testing (CAT) based on the Item Response Theory (IRT) has the potential to improve measurement accuracy and reduce respondent burden. In this study, we conducted psychometric simulations to develop a CAT for evaluating the candidates' competence of health professionals.

Methods: The initial CAT item bank was sourced from the Standardized Competence Test for Clinical Medicine Undergraduates (SCTCMU), a nationwide summative test in China, consisting of 300 multiple-choice items. We randomly selected response data from 2000 Chinese clinical medicine undergraduates for analysis. Two types of analyses were performed: first, evaluating the psychometric properties of all items to meet the requirements of CAT; and second, conducting multiple CAT simulations using both simulated and real response data.

Results: The final CAT item bank consisted of 121 items, for which item parameters were calculated using a two-parameter logistic model (2PLM). The CAT simulations, based on both simulated and real data, revealed sufficient marginal reliability (coefficient of marginal reliability above 0.750) and criterion-related validity (Pearson's correlations between CAT scores and aggregate scores of the SCTCMU exceeding 0.850).

Discussion: In national-level medical education assessment, there is an increasing need for concise yet valid evaluations of candidates' competence of health professionals. The CAT developed in this study demonstrated satisfactory reliability and validity, offering a more efficient assessment of candidates' competence of health professionals. The psychometric properties of the CAT could lead to shorter test durations, reduced information loss, and a decreased testing burden for participants.

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Table of Contents Applied Study On Computerized Adaptive Testing

1. Understanding the eBook Applied Study On Computerized Adaptive Testing
 - The Rise of Digital Reading Applied Study On Computerized Adaptive Testing
 - Advantages of eBooks Over Traditional Books
2. Identifying Applied Study On Computerized Adaptive Testing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Applied Study On Computerized Adaptive Testing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applied Study On Computerized Adaptive Testing
 - Personalized Recommendations
 - Applied Study On Computerized Adaptive Testing User Reviews and Ratings
 - Applied Study On Computerized Adaptive Testing and Bestseller Lists
5. Accessing Applied Study On Computerized Adaptive Testing Free and Paid eBooks
 - Applied Study On Computerized Adaptive Testing Public Domain eBooks
 - Applied Study On Computerized Adaptive Testing eBook Subscription Services
 - Applied Study On Computerized Adaptive Testing Budget-Friendly Options
6. Navigating Applied Study On Computerized Adaptive Testing eBook Formats
 - ePub, PDF, MOBI, and More
 - Applied Study On Computerized Adaptive Testing Compatibility with Devices
 - Applied Study On Computerized Adaptive Testing Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Applied Study On Computerized Adaptive Testing
 - Highlighting and Note-Taking Applied Study On Computerized Adaptive Testing
 - Interactive Elements Applied Study On Computerized Adaptive Testing
8. Staying Engaged with Applied Study On Computerized Adaptive Testing

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Applied Study On Computerized Adaptive Testing
- 9. Balancing eBooks and Physical Books Applied Study On Computerized Adaptive Testing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Applied Study On Computerized Adaptive Testing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Applied Study On Computerized Adaptive Testing
 - Setting Reading Goals Applied Study On Computerized Adaptive Testing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Applied Study On Computerized Adaptive Testing
 - Fact-Checking eBook Content of Applied Study On Computerized Adaptive Testing
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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