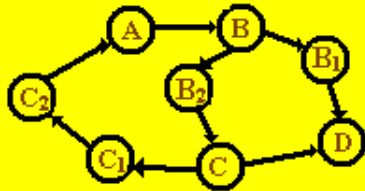


**Assessing and Modeling
Cognitive Development
in School**



Robert Lissitz

**Assessing and Modeling Cognitive
Development in School:
Intellectual Growth and Standard Setting**

Edited by
Robert W. Lissitz

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Department of Measurement, Statistics and
Evaluation
University of Maryland

JAM Press is pleased to announce the new book, *Assessing and Modeling Cognitive Development in School: Intellectual Growth and Standard Setting*, is available. The book is available in soft cover (\$57, ISBN 978-1-934116-03-6) and hard cover (\$69, ISBN 978-1-934116-02-9). Postage and handling are additional. Information on ordering the book is found on the reverse

of this announcement. Information is also available at the *Journal of Applied Measurement* web site (www.jampress.org). Please go to the JAM Press Books page on the website and scroll down to the new books section.

This book presents a series of papers that examine the area of cognitive modeling in assessment with a particular emphasis on standard setting. These papers present the most up to date information on modeling student learning using multivariate IRT models, progress variable mapping, value-based approaches, content trajectories, on line tutoring records, and vertically articulated performance standards. The No Child Left Behind (NCLB) legislation has encouraged a keen interest in standard setting. At the same time, there has been a steady increase in the use of cognitive models to understand student performance. These models are being used to characterize the patterns of problem solving that a student utilizes to solve the test items with which he or she is faced in an assessment. This book combines these two interests in a way that gives the reader an overview of the current literature as well as the issues that remain unresolved. This book helps one to understand the standard setting problem as one of characterizing the expert student's problem solving strategies and differentiating these strategies from those used by the inexpert student. The result is a view of standard setting and student progress that takes on a very different appearance from that traditionally used in psychometrics.

This book is based on the very well received conference of the same name held on the University of Maryland Campus on October 19 and 20, 2006.

The titles and authors of the eleven chapters are as follows:

- Isaac I. Bejar, Henry I. Braun, and Richard J. Tannenbaum, Educational Testing Service
A Prospective, Progressive, and Predictive Approach to Standard Setting
- Steve Ferrara, Gary W. Phillips, Paul L. Williams, Steven Leinwand, Shannon Mahoney, and Stephan Ahad, American Institutes for Research
Vertically Articulated Performance Standards: An Exploratory Study of Inferences about Achievement and Growth
- Brian W. Junker, Carnegie Mellon University
Using On-line Tutoring Records to Predict End-of-Year Exam Scores: Experience with the ASSISTments Project and MCAS 8th Grade Mathematics
- Joseph A. Martineau, Michigan Department of Education; Dipendra Raj Subedi, Michigan State University; Kyle H. Ward, Michigan Department of Education; Tianli Li, Yang Lu, Qi Diao, Feng-Hsien Pang, Samuel Drake, Tian Song, Shu-Chuan Kao, Yan Zheng, and Xin Li, Michigan State University
Non-Linear Unidimensional Scale Trajectories through Multidimensional Content Spaces: A Critical Examination of the Common Psychometric Claims of Unidimensionality, Linearity, and Interval-Level Measurement

- Marty McCall, and Carl Hauser, Northwest Evaluation Association
Item Response Theory and Longitudinal Modeling: The Real World is Less Complicated than We Fear
- Christopher A. Correa, and Kevin F. Miller, University of Michigan
A Culture of Remembering: Contexts of Mathematical Development and their Implications for Assessment and Standard-Setting
- Mark D. Reckase, Michigan State University, and Tianli Li, ACT, Inc.
Estimating Gain in Achievement when Content Specifications Change: A Multidimensional Item Response Theory Approach
- Mark Moody, Hillcrest and Main, Inc., William D. Schafer, University of Maryland, and Lani Seikaly, Hillcrest and Main, Inc.
Implementing Cognition-Based Learning Goals in Classrooms: The State Role
- Ron Stevens, IMMEX Project, UCLA
A Value-Based Approach for Quantifying Student's Scientific Problem Solving Efficiency and Effectiveness Within and Across Educational Systems
- Dylan Wiliam, Institute of Education, University of London
Once You Know What They've Learned, What Do You Do Next? Designing Curriculum and Assessment for Growth
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