
Contents

Preface	V
List of Contributors	VII
1 Introduction: Extending the Rasch Model <i>Matthias von Davier, Jürgen Rost, Claus H. Carstensen</i>	1
<hr/>	
Part I Multivariate and Mixture Rasch Models	
<hr/>	
2 Measurement Models as Narrative Structures <i>Robert Mislevy, Chun-Wei Huang</i>	15
3 Testing Generalized Rasch Models <i>Cees A.W. Glas</i>	37
4 The Mixed-Coefficients Multinomial Logit Model: A Generalized Form of the Rasch Model <i>Raymond J. Adams, Margaret L. Wu</i>	57
5 Loglinear Multivariate and Mixture Rasch Models <i>Henk Kelderman</i>	77
6 Mixture-Distribution and HYBRID Rasch Models <i>Matthias von Davier, Kentaro Yamamoto</i>	99
<hr/>	
Part II Generalized Models—Specific Research Questions	
<hr/>	
7 Application of the Saltus Model to Stagelike Data: Some Applications and Current Developments <i>Karen Draney, Mark Wilson</i>	119

8 Determination of Diagnostic Cut-Points Using Stochastically Ordered Mixed Rasch Models	
<i>Svend Kreiner</i>	131
9 A HYBRID Model for Test Speededness	
<i>Keith A. Boughton, Kentaro Yamamoto</i>	147
10 Multidimensional Three-Mode Rasch Models	
<i>Claus H. Carstensen, Jürgen Rost</i>	157
11 (Almost) Equivalence Between Conditional and Mixture Maximum Likelihood Estimates for Some Models of the Rasch Type	
<i>Anton K. Formann</i>	177
12 Rasch Models for Longitudinal Data	
<i>Thorsten Meiser</i>	191
13 The Interaction Model	
<i>Shelby J. Haberman</i>	201
14 Multilevel Rasch Models	
<i>Akihito Kamata, Yuk Fai Cheong</i>	217
<hr/>	
Part III Applications of Multivariate and Mixed Rasch Models	
<hr/>	
15 Mixed Rasch Models for Measurement in Cognitive Psychology	
<i>Susan E. Embretson</i>	235
16 Detecting Response Styles and Faking in Personality and Organizational Assessments by Mixed Rasch Models	
<i>Michael Eid, Michael J. Zickar</i>	255
17 Application of Multivariate Rasch Models in International Large-Scale Educational Assessments	
<i>Raymond J. Adams, Margaret L. Wu, Claus H. Carstensen</i>	271
18 Studying Development via Item Response Models: A Wide Range of Potential Uses	
<i>Judith Glück, Christiane Spiel</i>	281
19 A Comparison of the Rasch Model and Constrained Item Response Theory Models for Pertinent Psychological Test Data	
<i>Klaus D. Kubinger, Clemens Draxler</i>	293

20 Latent-Response Rasch Models for Strategy Shifts in Problem-Solving Processes	
<i>Carl P. M. Rijkes, Henk Kelderman</i>	311
21 Validity and Objectivity in Health-Related Scales: Analysis by Graphical Loglinear Rasch Models	
<i>Svend Kreiner, Karl Bang Christensen</i>	329
22 Applications of Generalized Rasch Models in the Sport, Exercise, and the Motor Domains	
<i>Gershon Tenenbaum, Bernd Strauss, Dirk Büsch</i>	347
References	357
Author Index	391

Multivariate and Mixture Distribution Rasch Models
Extensions and Applications

von Davier, M.; Carstensen, C.H.

2007, XIII, 398 p. 42 illus., Hardcover

ISBN: 978-0-387-32916-1