

# Contents

<b>Continuation Ratio Model in Item Response Theory and Selection of Models for Polytomous Items .....</b>	<b>1</b>
Seock-Ho Kim	
<b>Using the Asymmetry of Item Characteristic Curves (ICCs) to Learn About Underlying Item Response Processes .....</b>	<b>15</b>
Sora Lee and Daniel M. Bolt	
<b>A Three-Parameter Speeded Item Response Model: Estimation and Application.....</b>	<b>27</b>
Joyce Chang, Henghsiu Tsai, Ya-Hui Su, and Edward M. H. Lin	
<b>An Application of a Random Mixture Nominal Item Response Model for Investigating Instruction Effects .....</b>	<b>39</b>
Hye-Jeong Choi, Allan S. Cohen, and Brian A. Bottge	
<b>Item Response Theory Models for Multidimensional Ranking Items.....</b>	<b>49</b>
Wen-Chung Wang, Xuelan Qiu, Chia-Wen Chen, and Sage Ro	
<b>Different Growth Measures on Different Vertical Scales .....</b>	<b>67</b>
Dongmei Li	
<b>Investigation of Constraint-Weighted Item Selection Procedures in Polytomous CAT .....</b>	<b>79</b>
Ya-Hui Su	
<b>Estimating Classification Accuracy and Consistency Indices for Multidimensional Latent Ability .....</b>	<b>89</b>
Wenyi Wang, Lihong Song, Shuliang Ding, and Yaru Meng	
<b>Item Response Theory Models for Person Dependence in Paired Samples.....</b>	<b>105</b>
Kuan-Yu Jin and Wen-Chung Wang	

<b>Using Sample Weights in Item Response Data Analysis Under Complex Sample Designs</b> .....	123
Xiaying Zheng and Ji Seung Yang	
<b>Scalability Coefficients for Two-Level Polytomous Item Scores: An Introduction and an Application</b> .....	139
Daniela R. Crisan, Janneke E. van de Pol, and L. Andries van der Ark	
<b>Numerical Differences Between Guttman's Reliability Coefficients and the GLB</b> .....	155
Pieter R. Oosterwijk, L. Andries van der Ark, and Klaas Sijtsma	
<b>Optimizing the Costs and GT based reliabilities of Large-scale Performance Assessments</b> .....	173
Yon Soo Suh, Dasom Hwang, Meiling Quan, and Guemin Lee	
<b>A Confirmatory Factor Model for the Investigation of Cognitive Data Showing a Ceiling Effect: An Example</b> .....	187
Karl Schweizer	
<b>The Goodness of Sample Loadings of Principal Component Analysis in Approximating to Factor Loadings with High Dimensional Data</b> .....	199
Lu Liang, Kentaro Hayashi, and Ke-Hai Yuan	
<b>Remedies for Degeneracy in Candecom/Parafac</b> .....	213
Paolo Giordani and Roberto Rocci	
<b>Growth Curve Modeling for Nonnormal Data: A Two-Stage Robust Approach Versus a Semiparametric Bayesian Approach</b> .....	229
Xin Tong and Zijun Ke	
<b>The Specification of Attribute Structures and Its Effects on Classification Accuracy in Diagnostic Test Design</b> .....	243
Ren Liu and Anne Corinne Huggins-Manley	
<b>Conditions of Completeness of the Q-Matrix of Tests for Cognitive Diagnosis</b> .....	255
Hans-Friedrich Köhn and Chia-Yi Chiu	
<b>Application Study on Online Multistage Intelligent Adaptive Testing for Cognitive Diagnosis</b> .....	265
Fen Luo, Shuliang Ding, Xiaoqing Wang, and Jianhua Xiong	
<b>Dichotomous and Polytomous Q Matrix Theory</b> .....	277
Shuliang Ding, Fen Luo, Wenyi Wang, and Jianhua Xiong	
<b>Multidimensional Joint Graphical Display of Symmetric Analysis: Back to the Fundamentals</b> .....	291
Shizuhiko Nishisato	

Quantitative Psychology Research

The 80th Annual Meeting of the Psychometric Society,  
Beijing, 2015

van der Ark, L.A.; Bolt, D.M.; Wang, W.C.; Douglas, J.A.;  
Wiberg, M. (Eds.)

2016, IX, 398 p. 50 illus., 29 illus. in color., Hardcover  
ISBN: 978-3-319-38757-4