

# Measurement Reliability And Validity

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Developing a

Protocol for Observational Comparative Effectiveness Research: A User's Guide

### **Public Program Evaluation**

This book is open access under a CC BY-NC 2.5 license. This book describes the extensive contributions made toward the advancement of human assessment by scientists from one of the world's leading research institutions, Educational Testing Service. The book's four major sections detail research and development in measurement and statistics, education policy analysis and evaluation, scientific psychology, and validity. Many of the developments presented have become de-facto standards in educational and psychological measurement, including in item response theory (IRT), linking and equating, differential item functioning (DIF), and educational surveys like the National Assessment of Educational Progress (NAEP), the Programme of international Student Assessment (PISA), the Progress of International Reading Literacy Study (PIRLS) and the Trends in Mathematics and Science Study (TIMSS). In addition to its comprehensive coverage of contributions to the theory and methodology of educational and psychological measurement and statistics, the book gives significant attention to ETS work in cognitive, personality, developmental, and social psychology, and to education policy analysis and program evaluation. The chapter authors are long-standing experts who provide broad coverage and thoughtful insights that build upon decades of experience in

research and best practices for measurement, evaluation, scientific psychology, and education policy analysis. Opening with a chapter on the genesis of ETS and closing with a synthesis of the enormously diverse set of contributions made over its 70-year history, the book is a useful resource for all interested in the improvement of human assessment.

### **Computer-Assisted Text Analysis**

A comprehensive survey research book that incorporates survey design, implementation, data management, and data analysis, this text is based in sociological research and contains extensive examples throughout. This book examines the uniqueness of each research topic and the fact that when doing such research, there is a need to make decisions about the many unique situations while trying to answer the research question. Each chapter is framed by addressing the decisions that need to be made depending on the various challenges that may arise as the survey study is developed.

### **Topics in Measurement**

This accessible and authoritative introduction is essential for education students and researchers needing to use quantitative methods for the first time. Using

datasets from real-life educational research and avoiding the use of mathematical formulae, the author guides students through the essential techniques that they will need to know, explaining each procedure using the latest version of SPSS. The datasets can also be downloaded from the book's website, enabling students to practice the techniques for themselves. This revised and updated second edition now also includes more advanced methods such as log linear analysis, logistic regression, and canonical correlation. Written specifically for those with no prior experience of quantitative research, this book is ideal for education students and researchers in this field.

### **Advances in Statistical Methodologies and Their Application to Real Problems**

In the field of social work, qualitative research is starting to gain more prominence as are mixed methods and various issues regarding race, ethnicity and gender. These changes in the field are reflected and updated in *The Handbook of Social Work Research Methods, Second Edition*. This text contains meta analysis, designs to evaluate treatment and provides the support to help students harness the power of the Internet. This handbook brings together leading scholars in research methods in social work.

## **The Polygraph and Lie Detection**

The goal of this book is multidimensional: a) to help reviving Statistics education in many parts in the world where it is in crisis. For the first time authors from many developing countries have an opportunity to write together with the most prominent world authorities. The editor has spent several years searching for the most reputable statisticians all over the world. International contributors are either presidents of the local statistical societies, or head of the Statistics department at the main university, or the most distinguished statisticians in their countries. b) to enable any non-statistician to obtain quick and yet comprehensive and highly understandable view on certain statistical term, method or application c) to enable all the researchers, managers and practitioners to refresh their knowledge in Statistics, especially in certain controversial fields. d) to revive interest in statistics among students, since they will see its usefulness and relevance in almost all branches of Science.

## **Multiple Indicators**

Lecturers, request your electronic inspection copy to review it for your course. Validity is the hallmark of quality for educational and psychological measurement. But what does quality mean in this context? And to what, exactly, does the concept

of validity apply? These apparently innocuous questions parachute the unwary inquirer into a minefield of tricky ideas. This book guides you through this minefield, investigating how the concept of validity has evolved from the nineteenth century to the present day. Communicating complicated concepts straightforwardly, the authors answer questions like: What does 'validity' mean? What does it mean to 'validate'? How many different kinds of validity are there? When does validation begin and end? Is reliability a part of validity, or distinct from it? This book will be of interest to anyone with a professional or academic interest in evaluating the quality of educational or psychological assessments, measurements and diagnoses.

### **International Encyclopedia of Statistical Science**

Topics incl. mec

### **Performance Assessment for the Workplace**

### **When the Whalers Were Up North**

Explains how to create and use tests to guide everyday teaching practices.

## Tests in Print

Kirk and Miller define what is -- and what is not -- qualitative research. They suggest that the use of numbers in the process of recording and analyzing observations is less important than that the research should involve sustained interaction with the people being studied, in their own language and on their own turf. Following a chapter on objectivity, the authors discuss the role of reliability and validity and the problems that arise when these issues are neglected. They present a paradigm for the qualitative research process that makes it possible to pursue validity without neglecting reliability.

## **STOP, THAT and One Hundred Other Sleep Scales**

Improving the accuracy of a survey is the focus of Mark S. Litwin's book, which shows how to assess and interpret the quality of survey data by thoroughly examining the survey instrument used. He explains how to code and pilot test new and established surveys. In addition, he covers issues such as: how to measure reliability (including test-retest, alternate form, internal consistency, inter-observer and intra-observer reliability); how to measure validity (including content, criterion and construct validity); how to address cross-cultural issues in survey research; and how to scale and score a survey.

## **Measurement in Physical Therapy**

This guide explains how social scientists can evaluate the reliability and validity of empirical measurements, discussing the three basic types of validity: criterion related, content, and construct. In addition, the paper shows how reliability is assessed by the retest method, alternative-forms procedure, split-halves approach, and internal consistency method.

## **High Stakes**

Everyone is in favor of "high education standards" and "fair testing" of student achievement, but there is little agreement as to what these terms actually mean. High Stakes looks at how testing affects critical decisions for American students. As more and more tests are introduced into the country's schools, it becomes increasingly important to know how those tests are used--and misused--in assessing children's performance and achievements. High Stakes focuses on how testing is used in schools to make decisions about tracking and placement, promotion and retention, and awarding or withholding high school diplomas. This book sorts out the controversies that emerge when a test score can open or close gates on a student's educational pathway. The expert panel: Proposes how to judge the appropriateness of a test. Explores how to make tests reliable, valid, and

fair. Puts forward strategies and practices to promote proper test use. Recommends how decisionmakers in education should--and should not--use test results. The book discusses common misuses of testing, their political and social context, what happens when test issues are taken to court, special student populations, social promotion, and more. High Stakes will be of interest to anyone concerned about the long-term implications for individual students of picking up that Number 2 pencil: policymakers, education administrators, test designers, teachers, and parents.

### **How to Measure Survey Reliability and Validity**

Providing an up-to-date picture of the main methods for the quantitative analysis of text, this book begins by overviewing the background and the conceptual foundations of the field. The author then covers the traditional thematic approaches of text analysis, followed by an explanation of newer developments in semantic and network text analysis methodologies. Finally, he examines the relationship between content analysis and other kinds of text analysis - from qualitative research, linguistic analysis and information retrieval. Computer-assisted Text Analysis focuses on the methodological and practical issues of coding and handling data, including sampling, reliability and validity issues, and includes a useful appendix of computer programs for text analysis.

## **100 Questions (and Answers) About Tests and Measurement**

### **Encyclopedia of Quality of Life and Well-Being Research**

Written with Bandura's social learning theory in mind, *Testing and Measurement: A User-Friendly Guide* allows students to master testing and measurement through a three-stage learning process - presentation of information, modeling, and practice with direct feedback. Authors Sharon E. Robinson Kurpius and Mary E. Stafford take students through the essential components of measurement, starting with measurement scales and ending with reliability and validity. Taking the attitude that everyone can learn testing and measurement concepts, the authors make this learning process fun and non-threatening.

### **Reliability and Validity in Qualitative Research**

"This book provides one of the clearest treatments of correlations and regression of any statistics book I have seen. . . . Bobko has achieved his objective of making the topics of correlation and regression accessible to students. . . . For someone looking for a very clearly written treatment of applied correlation and regression, this book would be an excellent choice." --Paul E. Spector, University of South

Florida "As a quantitative methods instructor, I have reviewed and used many statistical textbooks. This textbook and approach is one of the very best when it comes to user-friendliness, approachability, clarity, and practical utility." --Steven G. Rogelberg, Bowling Green State University

### **Introduction to Structural Equation Modeling Using IBM SPSS Statistics and Amos**

Although ability testing has been an American preoccupation since the 1920s, comparatively little systematic attention has been paid to understanding and measuring the kinds of human performance that tests are commonly used to predict--such as success at school or work. Now, a sustained, large-scale effort has been made to develop measures that are very close to actual performance on the job. The four military services have carried out an ambitious study, called the Joint-Service Job Performance Measurement/Enlistment Standards (JPM) Project, that brings new sophistication to the measurement of performance in work settings. Volume 1 analyzes the JPM experience in the context of human resource management policy in the military. Beginning with a historical overview of the criterion problem, it looks closely at substantive and methodological issues in criterion research suggested by the project: the development of performance measures; sampling, logistical, and standardization problems; evaluating the

reliability and content representativeness of performance measures; and the relationship between predictor scores and performance measures--valuable information that can also be useful in the civilian workplace.

### **Research Methodology in Strategy and Management**

Action research, explored in this book, is a seven-step process for improving teaching and learning in classrooms at all levels. Through practical examples, research tools, and easy-to-follow "implementation strategies," Richard Sagor guides readers through the process from start to finish. Learn how to uncover and use the data that already exist in your classrooms and schools to answer significant questions about your individual or collective concerns and interests. Sagor covers each step in the action research process in detail: selecting a focus, clarifying theories, identifying research questions, collecting data, analyzing data, reporting results, and taking informed action. Drawing from the experience of individual teachers, faculties, and school districts, Sagor describes how action research can enhance teachers' professional standing and efficacy while helping them succeed in settings characterized by increasingly diverse student populations and an emphasis on standards-based reform. The book also demonstrates how administrators and policymakers can use action research to bolster efforts related to accreditation, teacher supervision, and job-embedded staff development. Part how-to guide, part inspirational treatise, *Guiding School Improvement with Action*

Research provides advice, information, and encouragement to anyone interested in reinventing schools as learning communities and restructuring teaching as the true profession it was meant to be.

### **Correlation and Regression**

The polygraph, often portrayed as a magic mind-reading machine, is still controversial among experts, who continue heated debates about its validity as a lie-detecting device. As the nation takes a fresh look at ways to enhance its security, can the polygraph be considered a useful tool? The Polygraph and Lie Detection puts the polygraph itself to the test, reviewing and analyzing data about its use in criminal investigation, employment screening, and counter-intelligence. The book looks at: The theory of how the polygraph works and evidence about how deceptiveness and other psychological conditions affect the physiological responses that the polygraph measures. Empirical evidence on the performance of the polygraph and the success of subjects' countermeasures. The actual use of the polygraph in the arena of national security, including its role in deterring threats to security. The book addresses the difficulties of measuring polygraph accuracy, the usefulness of the technique for aiding interrogation and for deterrence, and includes potential alternatives such as voice-stress analysis and brain measurement techniques.

## **Doing Quantitative Research in Education with SPSS**

This comprehensive Second Edition offers readers a complete guide to carrying out research projects involving structural equation modeling (SEM). Updated to include extensive analysis of AMOS' graphical interface, a new chapter on latent curve models and detailed explanations of the structural equation modeling process, this second edition is the ideal guide for those new to the field. The book includes: Learning objectives, key concepts and questions for further discussion in each chapter. Helpful diagrams and screenshots to expand on concepts covered in the texts. Real life examples from a variety of disciplines to show how SEM is applied in real research contexts. Exercises for each chapter on an accompanying companion website. A new glossary. Assuming no previous experience of the subject, and a minimum of mathematical knowledge, this is the ideal guide for those new to SEM and an invaluable companion for students taking introductory SEM courses in any discipline. Niels J. Blunch was formerly in the Department of Marketing and Statistics at the University of Aarhus, Denmark

## **The Handbook of Social Work Research Methods**

In recent years, statistical techniques and methods for data analysis have advanced significantly in a wide range of research areas. These developments

enable researchers to analyze increasingly large datasets with more flexibility and also more accurately estimate and evaluate the phenomena they study. We recognize the value of recent advances in data analysis techniques in many different research fields. However, we also note that awareness of these different statistical and probabilistic approaches may vary, owing to differences in the datasets typical of different research fields. This book provides a cross-disciplinary forum for exploring the variety of new data analysis techniques emerging from different fields.

### **Infant-Mother Attachment**

The positive benefits of physical activity for physical and mental health are now widely acknowledged, yet levels of physical inactivity continue to increase throughout the developed world. Understanding the psychology of physical activity has therefore become an important concern for scientists, health professionals and policy-makers alike. Psychology of Physical Activity is a comprehensive and in-depth introduction to the fundamentals of exercise psychology, from theories of motivation and adherence to the design of successful interventions for increasing participation. Now in a fully revised, updated and expanded third edition, Psychology of Physical Activity is still the only textbook to offer a full survey of the evidence-base for theory and practice in exercise psychology, and the only textbook that explains how to interpret the quality of the research evidence. With

international cases, examples and data included throughout, the book also provides a thoroughly detailed examination of the relationship between physical activity and mental health. A full companion website offers useful features to help students and lecturers get the most out of the book during their course, including multiple-choice revision questions, PowerPoint slides and a test bank of additional learning activities. *Psychology of Physical Activity* is the most authoritative, engaging and up-to-date introduction to exercise psychology currently available. It is essential reading for all students working in exercise and health sciences.

### **Reliability and Validity Assessment**

First Published in 1985. Routledge is an imprint of Taylor & Francis, an informa company.

### **Validity in Educational and Psychological Assessment**

'This book provides refreshing and powerful insights on the challenges of conducting management research from a European perspective. Particularly for someone embarking on a management research career this book will provide valuable guidelines.' -- Ian MacMillan, Wharton School of Business, University of Pennsylvania  
'This comprehensive volume is distinguished by its balance and

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pragmatism. The authors who present the various research methods are not proponents but researchers who have applied these methods. The authors who discuss philosophical and strategic issues are not advocates but researchers who have had to confront these issues in their research' - Bill Starbuck, New York University `Doing Management Research is a fabulous contribution to our field. Thietart and his colleagues have put together a unique and valuable guide to help management scholars more deeply understand the issues, dynamics and contradictions of executing first class managerial research. This book will hold an important place on the researcher's desk for years to come' - Michael Tushman, Harvard Business School 'This is an excellent in-depth examination of the conduct of management research. It will serve as a valuable resource for management scholars and researchers and is a must read for Ph.D. students in management.' -- Michael Hitt, Arizona State University `This book will prove to be an excellent guide for those engaged in management research for the first time and an excellent refresher for more experienced scholars. Raymond Thietart and his colleagues should be thanked roundly for this comprehensive volume' - Gordon Walker, Southern Methodist University, Cox Business School `This textbook makes an outstanding contribution to texts on management research. For researchers considering management research it offers an extensive guide to the research process' - Paula Roberts, Nurse Researcher Doing Management Research, a major new textbook, provides answers to questions and problems which researchers invariably encounter when embarking on management research, be it quantitative

or qualitative. This book will carefully guide the reader through the research process from beginning to end. An excellent tool for academics and students, it enables the reader to acquire and build upon empirical evidence, and to decide what tools to use to understand and describe what is being observed, and then, which methods of analysis to adopt. There is an entire section dedicated to writing up and communicating the research findings. Written in an accessible and easy-to-use style, this book can be read from cover to cover or dipped into, to clarify particular issues during the research process. Doing Management Research results from the 'hands-on' experience of a large group of researchers who have all had to address the different issues raised when undertaking management research. It is anchored in real methodological problems that researchers face in their work. This work will also become one of the most useful reference tools for senior researchers who are looking for answers to epistemological or methodological problems.

### **Doing Management Research**

### **Designing and Tracking Knowledge Management Metrics**

Knowledge management metrics are one of the weakest areas of practice in the field. Providing practical guidance for identifying different types of measurements

and metrics, as well as methods for defining and collection information about metrics, this is an essential book for knowledge management professionals and researchers.

### **Handbook of Individual Differences in Social Behavior**

How do individual differences interact with situational factors to shape social behavior? Are people with certain traits more likely to form lasting marriages; experience test-taking anxiety; break the law; feel optimistic about the future? This handbook provides a comprehensive, authoritative examination of the full range of personality variables associated with interpersonal judgment, behavior, and emotion. The contributors are acknowledged experts who have conducted influential research on the constructs they address. Chapters discuss how each personality attribute is conceptualized and assessed, review the strengths and limitations of available measures (including child and adolescent measures, when available), present important findings related to social behavior, and identify directions for future study.

### **Encyclopedia of Behavioral Medicine**

Research methods present the strategic management field with opportunities and

challenges. This second volume describes challenges and opportunities inherent in particular content areas, examines key ontological and epistemological issues in the strategic management context and also describes how strategy researchers can use particular methods.

### **Test Better, Teach Better**

A history and description of the times when whalers mingled with the Inuit, told by the Inuits themselves

### **Psychology of Physical Activity**

There are at least four reasons why a sleep clinician should be familiar with rating scales that evaluate different facets of sleep. First, the use of scales facilitates a quick and accurate assessment of a complex clinical problem. In three or four minutes (the time to review ten standard scales), a clinician can come to a broad understanding of the patient in question. For example, a selection of scales might indicate that an individual is sleepy but not fatigued; lacking alertness with no insomnia; presenting with no symptoms of narcolepsy or restless legs but showing clear features of apnea; exhibiting depression and a history of significant alcohol problems. This information can be used to direct the consultation to those issues

perceived as most relevant, and can even provide a springboard for explaining the benefits of certain treatment approaches or the potential corollaries of allowing the status quo to continue. Second, rating scales can provide a clinician with an enhanced vocabulary or language, improving his or her understanding of each patient. In the case of the sleep specialist, a scale can help him to distinguish fatigue from sleepiness in a patient, or elucidate the differences between sleepiness and alertness (which is not merely the inverse of the former). Sleep scales are developed by researchers and clinicians who have spent years in their field, carefully honing their preferred methods for assessing certain brain states or characteristic features of a condition. Thus, scales provide clinicians with a repertoire of questions, allowing them to draw upon the extensive experience of their colleagues when attempting to tease apart nuanced problems. Third, some scales are helpful for tracking a patient's progress. A particular patient may not remember how alert he felt on a series of different stimulant medications. Scale assessments administered periodically over the course of treatment provide an objective record of the intervention, allowing the clinician to examine and possibly reassess her approach to the patient. Finally, for individuals conducting a double-blind crossover trial or a straightforward clinical practice audit, those who are interested in research will find that their own clinics become a source of great discovery. Scales provide standardized measures that allow colleagues across cities and countries to coordinate their practices. They enable the replication of previous studies and facilitate the organization and dissemination of new research

in a way that is accessible and rapid. As the emphasis placed on evidence-based care grows, a clinician's ability to assess his or her own practice and its relation to the wider medical community becomes invaluable. Scales make this kind of standardization possible, just as they enable the research efforts that help to formulate those standards. The majority of Rating Scales in Sleep and Sleep Disorders:100 Scales for Clinical Practice is devoted to briefly discussing individual scales. When possible, an example of the scale is provided so that readers may gain a sense of the instrument's content. Groundbreaking and the first of its kind to conceptualize and organize the essential scales used in sleep medicine, Rating Scales in Sleep and Sleep Disorders:100 Scales for Clinical Practice is an invaluable resource for all clinicians and researchers interested in sleep disorders.

### **Communication Research Statistics**

First Published in 2007. Routledge is an imprint of Taylor & Francis, an Informa company.

### **Advancing Human Assessment**

These Guidelines represent the first attempt to provide international recommendations on collecting, publishing, and analysing subjective well-being

data.

## **Guiding School Improvement with Action Research**

A presentation and critique of the use of multiple measures of theoretical concepts for the assessment of validity (using the multi-trait multi-method matrix) and reliability (using multiple indicators with a path analytic framework).

## **Social Science Research**

This book is designed to introduce doctoral and graduate students to the process of scientific research in the social sciences, business, education, public health, and related disciplines.

## **OECD Guidelines on Measuring Subjective Well-being**

A clear and concise introduction and reference for anyone new to the subject of statistics.

## **The Practice of Survey Research**

100 Questions (and Answers) About Tests and Measurement asks (and answers) important questions about the world of social science measurement. It is ideal as an introduction to students new to the concepts, to advanced students and professionals looking to review ideas and procedures, as well as to those interested in knowing more about a test they have to take or how to interpret the score they receive.

### **Testing and Measurement**

Written in an accessible style using simple and direct language this guide takes students through the statistics actually used in most empirical research in communication and the social sciences. The text also includes a full set of data analysis instructions based on SPSS 12 and Excel.

### **Statistics in a Nutshell**

This User's Guide is a resource for investigators and stakeholders who develop and review observational comparative effectiveness research protocols. It explains how to (1) identify key considerations and best practices for research design; (2) build a protocol based on these standards and best practices; and (3) judge the adequacy and completeness of a protocol. Eleven chapters cover all aspects of research

design, including: developing study objectives, defining and refining study questions, addressing the heterogeneity of treatment effect, characterizing exposure, selecting a comparator, defining and measuring outcomes, and identifying optimal data sources. Checklists of guidance and key considerations for protocols are provided at the end of each chapter. The User's Guide was created by researchers affiliated with AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews. More more information, please consult the Agency website: [www.effectivehealthcare.ahrq.gov](http://www.effectivehealthcare.ahrq.gov))

### **Developing a Protocol for Observational Comparative Effectiveness Research: A User's Guide**

The aim of this encyclopedia is to provide a comprehensive reference work on scientific and other scholarly research on the quality of life, including health-related quality of life research or also called patient-reported outcomes research. Since the 1960s two overlapping but fairly distinct research communities and traditions have developed concerning ideas about the quality of life, individually and collectively, one with a fairly narrow focus on health-related issues and one with a quite broad focus. In many ways, the central issues of these fields have

roots extending to the observations and speculations of ancient philosophers, creating a continuous exploration by diverse explorers in diverse historic and cultural circumstances over several centuries of the qualities of human existence. What we have not had so far is a single, multidimensional reference work connecting the most salient and important contributions to the relevant fields. Entries are organized alphabetically and cover basic concepts, relatively well established facts, lawlike and causal relations, theories, methods, standardized tests, biographic entries on significant figures, organizational profiles, indicators and indexes of qualities of individuals and of communities of diverse sizes, including rural areas, towns, cities, counties, provinces, states, regions, countries and groups of countries.

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