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Titolo Effect sizes for research: univariate and multivariate applications //

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Nota di bibliografia Includes bibliographical references and indexes.

Nota di contenuto Effect Sizes for Research Univariate and Multivariate Applications;

Copyright; Contents; Preface; Acknowledgments; Chapter 1 Introduction; Introduction.; Null-Hypothesis Significance Testing; Statistically Signifying and Practical Significance.; Definition,

Characteristics, and Uses of Effect Sizes; Some Factors Influencing Effect Sizes; Controversy About Null-Hypothesis Significance Testing; Purpose of This Book; Power Analysis; Replication and Meta-Analysis; Assumptions of Test Statistics and EffectSizes; Violations of

Assumptions Suggested by Real Data

Yuen's Confidence Interval for the Difference Between Two Trimmed MeansOther Methods for Independent Groups; Criteria for Methods for Constructing a Confidence Interval; Dependent Groups; Summary; Questions; Chapter 3 The Standardized Difference Between Means; Introduction; Standardized Difference Between Treatment and Comparison Means Assuming Normality; Uses and Limitations of a Standardized Difference; Equal or Unequal Variances; Outliers and Standardized-Difference Effect Sizes; Tentative Recommendations;

Additional Standardized-Difference Effect Sizes.

Confidence Intervals for Standardized-Difference Effect

SizesCounternull Effect Size.; Extreme Groups; Percent of Maximum Possible Score; Dependent Groups.; Effect Sizes for Pretest-Posttest Control-Group Designs; Summary; Questions.; Chapter 4 Correlational Effect Sizes and Related Topics; Introduction; Dichotomizing and Correlation; Point-Biserial Correlation; Unequal Base Rates in Nonexperimental Research; Correcting for Bias; Confidence Intervals for r pop; Null-Counternull Interval for r pop; Assumptions of Correlation and Point-Biserial Correlation

Unequal Sample Sizes in Experimental ResearchUnreliability; Adjusting Effect Sizes for Unreliability; Restricted Range; Scale Coarseness; Small, Medium, and Large Effect Size Values; Binomial Effect Size Display; Coefficient of Determination.; Criticisms of the Coefficient of Determination; Slopes as Effect Sizes; Effect Sizes for Mediating and Moderating Variables; Summary; Questions; Chapter 5 Effect Size Measures That Go Beyond Comparing Two Averages; Introduction.; Probability of Superiority:Independent Groups.; Introduction to Overlap and Related Measures; Dominance Measure Cohen's Measures of Nonoverlap.

Sommario/riassunto

"Noted for its comprehensive coverage, this greatly expanded new edition now covers the use of univariate and multivariate effect sizes. A variety of measures and estimators are reviewed along with their application, interpretation, and limitations. Noted for its practical approach, the book features numerous examples using real data for a variety of variables and designs, to help readers apply the material to their own data. Tips on the use of SPSS, SAS, R, And S-Plus are provided for the more tedious calculations. The book's broad disciplinary appeal results from its inclusion of a variety of examples from psychology. medicine, education, and other social sciences. Special attention is paid to confidence intervals, the statistical assumptions of the methods, and robust estimators of effect sizes. The extensive reference section is appreciated by all. With more than 40% new material, highlights of the new editon include: Three new multivariate chapters covering effect sizes for analysis of covariance, multiple regression/correlation, and multivariate analysis of variance. More learning tools in each chapter including introductions, summaries, "Tips and Pitfalls" and more conceptual and computational questions. More coverage of univariate effect sizes, confidence intervals, and effect sizes for repeated measures to reflect their increased use in research. More software references for calculating effect sizes and their confidence intervals including SPSS, SAS, R, and S-Plus. The data used in the book is now provided on the web along with suggested calculations for computational practice. Effect Sizes for Research, 2nd Edition covers standardized and unstandardized differences between means. correlational measures, strength of association, and parametric and nonparametric measures for between- and within-groups data. The book clearly demonstrates how the choice of an appropriate measure depends on such factors as whether variables are categorical, ordinal. or continuous; satisfying assumptions; sampling; and the source of variability in the population. Background information on multivariate statistics is provided for those who need it. Intended as a resource for professionals, researchers, and advanced students in a variety of fields, this book is also an excellent supplement for advanced statistics courses in psychology, education, the social sciences, business, and medicine. A prerequisite of introductory statistics through factorial analysis of variance and chi-square is recommended"--