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Autore	Grissom Robert J.
Titolo	Effect sizes for research : univariate and multivariate applications // Robert J. Grissom and John J. Kim
Pubbl/distr/stampa	New York : , : Routledge, , 2012
ISBN	1-136-63235-2 0-203-80323-X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (453 p.)
Altri autori (Persone)	KimJohn J
Disciplina	519.5/38
Soggetti	Analysis of variance Effect sizes (Statistics) Experimental design Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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 Effect Sizes; Violations of Assumptions Suggested by Real Data Yuen's Confidence Interval for the Difference Between Two Trimmed Means Other 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

Sizes Counter null 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-Counter null Interval for r_{pop} ; Assumptions of Correlation and Point-Biserial Correlation
Unequal Sample Sizes in Experimental Research Unreliability; 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 edition 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"--

2. Record Nr.	UNINA9910483810403321
Titolo	Computer vision and graphics [[electronic resource]] : international conference, ICCVG 2010, Warsaw, Poland, September 20-22, 2010, proceedings . Part I // Leonard Bolc ... [et al.] (eds.)
Pubbl/distr/stampa	Berlin, : Springer, 2010
ISBN	1-280-38923-0 9786613567154 3-642-15910-9
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (XVI, 433 p. 207 illus.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 6374 LNCS sublibrary. SL 6, Image processing, computer vision, pattern recognition, and graphics
Altri autori (Persone)	BolcLeonard <1934->
Disciplina	006.3/7
Soggetti	Computer vision Computer graphics Image processing - Digital techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	International conference proceedings.
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Advances in Pattern Recognition, Machine Vision and Image Understanding -- Visual Codebooks Survey for Video On-Line Processing -- Application of Shape Description Methodology to Hand Radiographs Interpretation -- Localisation and Tracking of an Airport's Approach Lighting System -- Algorithm for Blood-Vessel Segmentation in 3D Images Based on a Right Generalized Cylinder Model: Application to Carotid Arteries -- Cognitive Hierarchical Active Partitions Using Patch Approach -- Ontological Models as Tools for Image Content Understanding -- Unsupervised, Fast and Precise Recognition of Digital Arcs in Noisy Images -- The Role of Sparse Data Representation in Semantic Image Understanding -- Semantic Interpretation of Heart Vessel Structures Based on Graph Grammars -- Interpretation of Images and Their Sequences Using Potential Active Contour Method -- Inductive Learning Methods in the Simple Image Understanding System -- Human Motion Analysis and Synthesis -- A Generic Approach to Design and Querying of Multi-purpose Human Motion Database --

Surveillance Video Stream Analysis Using Adaptive Background Model and Object Recognition -- Nonlinear Multiscale Analysis of Motion Trajectories -- Matlab Based Interactive Simulation Program for 2D Multisegment Mechanical Systems -- Electrooculography Signal Estimation by Using Evolution-Based Technique for Computer Animation Applications -- Articulated Body Motion Tracking by Combined Particle Swarm Optimization and Particle Filtering -- GPU-Accelerated Tracking of the Motion of 3D Articulated Figure -- An Efficient Approach for Human Motion Data Mining Based on Curves Matching -- Estimation System for Forces and Torques in a Biped Motion -- Classification of Poses and Movement Phases -- Computer Vision and Graphics -- Region Covariance Matrix-Based Object Tracking with Occlusions Handling -- Minimalist AdaBoost for Blemish Identification in Potatoes -- The Colour Sketch Recognition Interface for Training Systems -- Interactive Hydraulic Erosion Using CUDA -- Smoothing, Enhancing Filters in Terms of Backward Stochastic Differential Equations -- An Analysis of Different Clustering Algorithms for ROI Detection in High Resolutions CT Lung Images -- A System to Measure Gap Distance between Two Vehicles Using License Plate Character Height -- Efficient Neural Models for Visual Attention -- Fuzzy Hough Transform-Based Methods for Extraction and Measurements of Single Trees in Large-Volume 3D Terrestrial LIDAR Data -- Image Recognition Techniques Applied to Automated and Objective QoE Assessment of Mobile WWW Services -- Detection of Near-Regular Object Configurations by Elastic Graph Search -- Traffic Scene Segmentation and Robust Filtering for Road Signs Recognition -- Fast Distance Vector Field Extraction for Facial Feature Detection -- Vision-Based Vehicle Speed Measurement Method -- A Particle-Based Method for Large-Scale Breaking Waves Simulation -- A Hierarchical Classification Method for Mammographic Lesions Using Wavelet Transform and Spatial Features -- Easy Rigging of Face by Automatic Registration and Transfer of Skinning Parameters -- Terrain Modeling with Multifractional Brownian Motion and Self-regulating Processes -- Image Encryption through Using Chaotic Function and Graph -- Robust Stamps Detection and Classification by Means of General Shape Analysis -- Pre-processing, Extraction and Recognition of Binary Erythrocyte Shapes for Computer-Assisted Diagnosis Based on MGG Images -- Analysis of Four Polar Shape Descriptors Properties in an Exemplary Application -- Single Frame Rate-Quantization Model for MPEG-4 AVC/H.264 Video Encoders -- A Robust Method for Nose Detection under Various Conditions -- Segmentation of Moving Cells in Bright Field and Epi-Fluorescent Microscopic Image Sequences -- Shape Representation and Shape Coefficients via Method of Hurwitz-Radon Matrices -- Characteristics of Architectural Distortions in Mammograms - Extraction of Texture Orientation with Gabor Filters.

Sommario/riassunto

The International Conference on Computer Vision and Graphics, ICCVG, or- nized since 2002, is the continuation of the International Conferences on C- puter Graphics and Image Processing, GKPO, held in Poland every second year from 1990 to 2000.

The founder and organizer of these conferences was Prof. W- ciech Mokrzycki. The main objective of ICCVG is to provide a forum for the exchange of ideas between researchers in the closely- related domains of computer vision and computer graphics.

ICCVG 2010 gathered about 100 authors. The proceedings contain 95 papers, each accepted on the grounds of two independent reviews. During the conference two special sessions were organized: Advances in Pattern Recognition, Machine Vision and Image Understanding and Human Motion Analysis and Synthesis. The content of the issue has been

divided into three parts. The first and second parts are related to the two special sessions mentioned above, containing 11 chapters each. The third part, named like the whole book, Computer Vision and Graphics, collects all the remaining chapters. ICCVG 2010 was organized by the Association for Image Processing, Poland (Towarzystwo Przetwarzania Obrazów - TPO), the Polish-Japanese Institute of Information Technology (PJWSTK), and the Faculty of Applied Informatics and Mathematics, Warsaw University of Life Sciences (WZIM SGGW). The Association for Image Processing integrates the Polish community working on the theory and applications of computer vision and graphics. It was formed between 1989 and 1991. The Polish-Japanese Institute of Information Technology, founded in 1994 by the Computer Techniques Development Foundation under the agreement of the Polish and Japanese governments, is one of the leading, non-state (private) Polish universities. We are highly grateful for the fact that the institute has been hosting and supporting the Conference.
