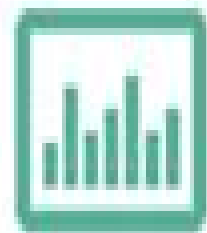
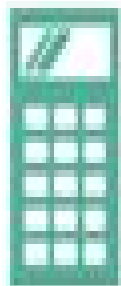


Pearson Correlation Coefficient

$$r = \frac{n(\sum xy) - (\sum x)(\sum y)}{\sqrt{[n\sum x^2 - (\sum x)^2][n\sum y^2 - (\sum y)^2]}}$$



1 The Pearson Correlation Coefficient John Uebersax

John Gurland, Roy Milton



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Resources in Education, 1990-10 **Nonparametric Statistics for Health Care Research** Marjorie A. Pett, 2015-06-29 What do you do when you realize that the data set from the study that you have just completed violates the sample size or other requirements needed to apply parametric statistics Nonparametric Statistics for Health Care Research by Marjorie A Pett was developed for such scenarios research undertaken with limited funds often using a small sample size with the primary objective of improving client care and obtaining better client outcomes Covering the most commonly used nonparametric statistical techniques available in statistical packages and on open resource statistical websites this well organized and accessible Second Edition helps readers including those beyond the health sciences field to understand when to use a particular nonparametric statistic how to generate and interpret the resulting computer printouts and how to present the results in table and text format *Current Index to Statistics, Applications, Methods and Theory*, 1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields Tables of the probable error of the coefficient of correlation as found by Karl John Holzinger, 1925 **A Machine Method of Calculating the Pearson Correlation Coefficient** E. E. Tremmel, Charles Conrad Weidemann, 1930 **The History of Correlation** John Nicholas Zorich, 2024-12-04 After 30 years of research the author of The History of Correlation organized his notes into a manuscript draft during the lockdown months of the COVID 19 pandemic Getting it into shape for publication took another few years It was a labor of love Readers will enjoy learning in detail how correlation evolved from a completely non mathematical concept to one today that is virtually always viewed mathematically This book reports in detail on 19th and 20th century English language publications it discusses the good and bad of many dozens of 20th century articles and statistics textbooks in regard to their presentation and explanation of correlation The final chapter discusses 21st century trends Some topics included here have never been discussed in depth by any historian For example Was Francis Galton lying in the first sentence of his first paper about correlation Why did he choose the word co relation rather than correlation for his new coefficient How accurate is the account of the history of correlation found in H Walker s 1929 classic Studies in the History of Statistical Method Have 20th century textbooks misled students as to how to use the correlation coefficient Key features of this book Charts tables and quotations or summaries of them are provided from about 450 publications In depth analyses of those charts tables and quotations are included Correlation related claims by a few noted historians are shown to be in error Many funny findings from 30 years of research are highlighted This book is an enjoyable read that is both serious and occasionally humorous Not only is it aimed at historians of mathematics but also professors and students of statistics and anyone who has enjoyed books such as Beckmann s A History of Pi or Stigler s The History of Statistics **Tables of the Probable Error of the Coefficient of Correlation as Found by the Product Moment Method** Karl John Holzinger, 1925 *Further Consideration of the Distribution of the Multiple Correlation Coefficient* John Gurland, Roy Milton, 1969

Decomposing the Pearson Correlation Natarajan Sriram, 2013 The Pearson correlation coefficient r a scale free measure in -1 to 1 indicates the strength and direction of a linear relationship between two variables When data are partitioned into two groups r can be decomposed into a between group component which is the product of two effect sizes ESp and a within group component WGc which is the sum of within group correlations weighted by a coefficient that is inversely related to ESp magnitude Both zero and nonzero correlations can arise in multiple ways A zero r could emerge from either i zero ESp and zero WGc or ii ESp and WGc of similar magnitude but in opposed direction A nonzero r could emerge from either i zero ESp and nonzero WGc or ii zero WGc and nonzero WGc or iii ESp and WGc in the same direction or iv ESp and WGc that differ in magnitude and direction Bipartitions that are theoretically interpretable include i natural zero points of variables e.g semantic differentials IATs and ii distinct data subsamples e.g males vs females Task orders This decomposition delineates the respective contributions of concordance in group means and quantitative linearity to the observed magnitude and direction of the Pearson correlation

Correlation Peter Y Chen, Paula M Popovich, 2002-06-12 After reading this book the reader will be able to compare and distinguish the concepts of similarity and relationship identify the distinction between correlation and causation and to interpret correlations correctly The book Examines Pearson r from its conceptual meaning to its assumptions Demonstrates how to use the Pearson r in research including effect size power analysis meta analysis utility analysis reliability estimates and validation Explains the factors that affect the Pearson r

Distributions of Correlation Coefficients Hoben Thomas, 1989-04-18

The Significance of the Correlation Coefficient when Applied to Mendelian Distributions John Brownlee, Royal Society of Edinburgh, 1910

Pearson's Correlation Coefficient and the U.S. Statistical Abstracts (2012), 2015 This dataset example introduces Pearson's correlation coefficient a measure of association between two continuous variables Pearson's correlation coefficient measures the positive or negative linear relationship between two continuous variables This example uses a subset of data from the U S Statistical Abstracts 2012 looking specifically at infant mortality and poverty rates across the 50 U S states plus Washington DC as measured in 2007 Analysis like this might help researchers and policy makers better understand the link between poverty and adverse health outcomes

A Trend Test Using the Pearson Correlation Coefficient Based on Normal Scores Dongmei Shi, 2008

On the Distribution of the Multiple Correlation Coefficient and the Kinked Chi-square Random Variable John Gurland, Osebekwin Asiribo, 1984

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