

Pearsons Product Moment Coefficient

Karl John Holzinger

The Trap of Pearson's Product-moment Correlation Celso Cursino Guimarães, 2020-09-29 Do you really believe or are you sure that Pearson correlation of $r=0.70$ and higher are strong and reliable enough? Maybe not! Pearson's product-moment correlation coefficient is widely used in scientific papers, as well as for commercial purposes, to assess the relationship between variables, despite lacking inferential properties. While certainly an ingenious tool, Pearson's coefficient has been criticized due to its sensitivity to outliers in small-N samples and its lack of robustness, given its limitation for assessing nonlinear relationships. To identify linearity, one must plot the dispersion of data via a Single Linear Regression (SLR) estimation. However, it is still not possible to discern residuals from explanatory components using a regression line. In this book, I hypothesize that Pearson's product-moment correlation coefficient is mathematically indeterminate, i.e., the zero-by-zero division, when the variance of one of the covariates is mainly composed of residuals. This feature is difficult to demonstrate, as Pearson's coefficient relies on deviant data points, which hide the coefficient's indeterminacy. If a variable's relationship to its counterpart is mainly determined by residuals, then, analogous to Heisenberg's uncertainty principle (1925), our knowledge of an element's position at a single point in time is inversely proportional to its counterpart—that is, the more we know about one, the less we know about the other. In this case, the only element that can represent a variable x is its own expected value, i.e., its mean. Thus, the explanatory capacity of its covariates is nullified, rendering Pearson's coefficient—and any other regression-based analysis—unfeasible. This conclusion demands a prior analysis of both variables since their pairing leads to a transfer of one's randomness to the other. To manage the limitations of Pearson's product-moment correlation coefficient, I provide a method for identifying the proximity to the mathematical indeterminacy aforementioned. Throughout this book, I demonstrate my thesis using numerous examples of the instability and lack of logical or scientific support of results stemming from Pearson's coefficient, including results that are allegedly strong. The use and interpretation of Pearson's product-moment correlation coefficient relies on a set of unrealistic premises that severely damage the credibility of the results. What is there to say then of its inferential capacity and its ability to show causal relationships, which are herein deemed its most improper implications?

Statistical Methods: Connections, Equivalencies, and Relationships Kenneth J. Berry, Janis E. Johnston, 2023-11-06 The

primary purpose of this book is to introduce the reader to a wide variety of interesting and useful connections, relationships, and equivalencies between and among conventional and permutation statistical methods. There are approximately 320 statistical connections and relationships described in this book. For each connection or connections the tests are described, the connection is explained, and an example analysis illustrates both the tests and the connection(s). The emphasis is more on demonstrations than on proofs, so little mathematical expertise is assumed. While the book is intended as a stand-alone monograph, it can also be used as a supplement to a standard textbook such as might be used in a second- or third-term course in conventional statistical methods. Students, faculty, and researchers in the social, natural, or hard sciences will find an interesting collection of statistical connections and relationships - some well-known, some more obscure, and some presented here for the first time.

Practical Statistics for Geographers and Earth Scientists Nigel Walford, 2011-07-05 Practical Statistics for Geographers and Earth Scientists provides an introductory guide to the principles and application of statistical analysis in context. This book helps students to gain the level of competence in statistical procedures necessary for independent investigations, field-work and other projects. The aim is to explain statistical techniques using data relating to relevant geographical, geospatial, earth and environmental science examples, employing graphics as well as mathematical notation for maximum clarity. Advice is given on asking the appropriate preliminary research questions to ensure that the correct data is collected for the chosen statistical analysis method. The book offers a practical guide to making the transition from understanding principles of spatial and non-spatial statistical techniques to planning a series analyses and generating results using statistical and spreadsheet computer software. Learning outcomes included in each chapter International focus Explains the underlying mathematical basis of spatial and non-spatial statistics Provides an geographical, geospatial, earth and environmental science context for the use of statistical methods Written in an accessible, user-friendly style Datasets available on accompanying website at www.wiley.com/go/Walford

Journal of the American Statistical Association American Statistical Association, 1927 A scientific and educational journal not only for professional statisticians but also for economists, business executives, research directors, government officials, university professors, and others who are seriously interested in the application of statistical methods to practical problems, in the development of more useful methods, and in the improvement of basic statistical data.

Primer of Biostatistics: Sixth Edition Stanton A. Glantz, 2005-04-15 Extremely popular, this student-friendly text presents the practical areas of statistics in terms of their relevance to medicine and the life sciences. Includes many illustrative examples and challenging problems that reinforce the author's unique and intuitive approach to the subject. The new edition features a new two-color design, examples taken from current biomedical literature, and review questions within each chapter.

Data Management and Statistical Analysis Techniques Ronin Myers,2019-05-19

Using Geochemical Data Hugh R. Rollinson,2014-01-21 Using Geochemical Data brings together in one volume a wide range of ideas and methods currently used in geochemistry, providing a foundation of knowledge from which the reader can interpret, evaluate and present geochemical data.

Theoriae causalitatis principia mathematica Ilija Barukcic,2021-08-03 This is the second edition of my book Theoriae causalitatis principia mathematica. It is an excellent book for self-study and a pragmatic help for researchers too. The formal proofs, a lot of exercises and figures plus unusually detailed solutions will help the reader, especially in medical and other biosciences. This book is designed to provide both, a new mathematical methodology for making causal inferences from experimental and nonexperimental data and the underlying (philosophical) theory. This monograph will continue to be of great importance, the reader will enjoy reading this book.

Statistics in Psychology Mr. Rohit Manglik,2024-03-06 EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high-quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

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Ornithology Reprints Harold Child Bryant,1915

Handbook of Statistical Nomographs, Tables, and Formulas Jack Wilbur Dunlap,Albert Kenneth Kurtz,1932

Exercise Manual in Statistics Karl John Holzinger,1929

The Forum of Education ,1925

Journal of Experimental Pedagogy and Training College Record ,1925

A Study of the Status of Rural Teachers in East Tennessee Dorman Gladstone Stout,1927

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