



On the Theory of Contingency: And Its Relation to Association and Normal Correlation

By Karl Pearson

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On the theory of contingency and its relation to association and normal correlation. Draper's Co. Research Memoirs Biometric Series, 1 (Reprinted 1948 in Karl Pearson's Early Statistical Papers. Jan 1904. K Pearson. Measures, models, and graphical displays are considered here for the analysis of nonindependence (or association) in the contingency table. Some of the work done on this topic during the twentieth century is discussed, including work done very early in the century and related work done near the middle and near the end of the century. Brief comments are also included here on the prehistory of this topic (on related work on this topic done in the nineteenth century) and on its future in the twenty-first century. The contingency theory of organizational structure will be termed here 'structural contingency theory' (Pfeffer 1982). Kuhn (1970) argues that scientific research proceeds within the framework of a paradigm, which specifies the core theoretical ideas, the assumptions, language, method and conventions. Thus the study of organizational structure is presently pluralistic with conflict between paradigms and normal science within the paradigms (Aldrich 1992; Donaldson 1985a, 1995a; Pfeffer 1993). Since other chapters in this Handbook deal with other paradigms we will here concentrate on the contingency paradigm. (Pearson, On the Theory of Contingency and Its Relation to Association and Normal Correlation, 1904, pp. 5-6.) Pearson explains in the introduction that he and others had previously considered categorical variables as ordered in all circumstances, and had analysed them as such. For example, in order to analyse eye colour, one arranged eye colours in what appeared to correspond to varying amounts of orange pigment [...] The point of the paper is to develop methods for analysing categorical variables without putting some artificial ordering on the categories. The first use of the term contingency... Pearson correlation is one of the oldest correlation coefficients developed to measure and quantify the similarity between two variables. Formally, Pearson's correlation coefficient is the covariance of the two variables divided by the product of their standard deviations. The form of the definition involves a 'product moment', that is, the mean (the first moment about the origin) of the product of the mean-adjusted random variables; hence the modifier product-moment in the name. I am not going to go into greater detail on the relative strengths and weaknesses of ordinal association versus linear association. The matter has been extensively discussed elsewhere.

On the theory of contingency and its relation to association and normal correlation. Draper' Co. Res. Memoirs (1904) Biometric Series 1, pp 34. Google Scholar. Please list any fees and grants from, employment by, consultancy for, shared ownership in or any close relationship with, at any time over the preceding 36 months, any organisation whose interests may be affected by the publication of the response. Please also list any non-financial associations or interests (personal, professional, political, institutional, religious or other) that a reasonable reader would want to know about in relation to the submitted work. This pertains to all the authors of the piece, their spouses or partners. Yes No. Pearson correlation is one of the oldest correlation coefficients developed to measure and quantify the similarity between two variables. Formally, Pearson's correlation coefficient is the covariance of the two variables divided by the product of their standard deviations. The form of the definition involves a "product moment", that is, the mean (the first moment about the origin) of the product of the mean-adjusted random variables; hence the modifier product-moment in the name. I am not going to go into greater detail on the relative strengths and weaknesses of ordinal association versus linear association. The matter has been extensively discussed elsewhere. I have a good faith belief that use of the material in the manner complained of is not authorized by the copyright owner, its agent, or law. A statement, made under penalty of perjury, that the above information is accurate, and that you are the copyright owner or are authorized to act on behalf of the owner. Info. Under federal law, if you knowingly misrepresent that online material is infringing, you may be subject to criminal prosecution for perjury and civil penalties, including monetary damages, court costs, and attorneys' fees. We check all files by special algorithm to prevent their re- Karl 1857-1936 Pearson. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has

The term contingency table was first used by Karl Pearson in "On the Theory of Contingency and Its Relation to Association and Normal Correlation", [1] part of the Drapers' Company Research Memoirs Biometric Series I published in 1904. A crucial problem of multivariate statistics is finding the (direct-)dependence structure underlying the variables contained in high-dimensional contingency tables. If some of the conditional independences are revealed, then even the storage of the data can be done in a smarter way (see Lauritzen (2002)). In order to do this one can use information A contingency theory is an organizational theory that claims that there is no best way to organize a corporation, to lead a company, or to make decisions. Instead, the optimal course of action is contingent (dependent) upon the internal and external situation. Contingent leaders are flexible in choosing and adapting to succinct strategies to suit change in situation at a particular period in time in the running of the organization. On the theory of contingency and its relation to association and normal correlation. Draper's Co. Research Memoirs Biometric Series, 1 (Reprinted 1948 in Karl Pearson's Early Statistical Papers. Jan 1904. K Pearson. Pearson, K. (1904) Mathematical contributions to the theory of evolution, XIII. For 2 \times k contingency tables, we consider the statistic r^* , the maximal correlation between the row and column variables, where the maximum is taken over all possible sets of scores (or "scales" or "weights") assigned to the k categories. For general m \times k contingency tables, methods involving the maximization over sets of scores assigned to the categories (called dual-scaling methods) have been criticized for lack of statistical interpretation and for difficulty of computation.