

# Configural Frequency Analysis: Methods, Models, and Applications

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## A Functional Approach to Configural Frequency Analysis

Alexander von Eye<sup>1</sup>, Patrick Mair<sup>2</sup>

<sup>1</sup>Michigan State University

<sup>2</sup>Wirtschaftsuniversität Wien

**Abstract:** Standard Configural Frequency Analysis (CFA) is a one-step procedure that determines which cells of a cross-classification contradict a base model. The results are possible types/antitypes depending on whether the observed cell frequencies are significantly lower/higher with respect to the base model. Selecting these cells out does not guarantee that the base model fits. Therefore, the role played by these cells for the base model is unclear, and interpretation of types and antitypes can be problematic. In this paper, *functional CFA* is proposed. This model of CFA pursues two goals simultaneously. First, cells are selected out that constitute types and antitypes. Second, the base model is fit to the data. This is done using an iterative procedure that blanks out individual cells one at a time, until the base model fits or until there are no more cells that can be blanked out. In comparison to standard CFA, functional CFA is shown to be more parsimonious, that is, fewer types and antitypes need to be selected out. The methods are illustrated and compared using data examples from the literature.

**Zusammenfassung:** Die Lienert'sche Konfigurationsfrequenzanalyse (KFA) ist ein 1-Schritt Verfahren, mit Hilfe dessen man bestimmen kann, welche Zellen einer Kreuztabelle einem Basismodell widersprechen. Dabei resultieren mögliche Typen/Antitypen, je nachdem ob die Häufigkeiten in Bezug auf das Basismodell signifikant über-/unterbesetzt sind. Nimmt man diese Zellen aus dem Modell, ist nicht garantiert, dass das Modell die Daten auch gut beschreibt. Deshalb ist die Rolle, die diese Zellen für das Basismodell spielen, unklar, und die Interpretation von Typen und Antitypen kann problematisch werden. In dieser Arbeit wird der Ansatz einer funktionalen KFA vorgestellt. Dabei werden zwei Ziele verfolgt: Erstens werden die Zellen identifiziert, die Typen und Antitypen konstituieren. Zweitens wird das Basismodell an die Daten angepasst. Diese Ziele werden mit einer iterativen Prozedur verfolgt, die eine Zelle nach der anderen aus der Kreuztabelle entfernt. Die Iteration endet, wenn das Basismodell die Daten gut beschreibt, oder wenn keine Zellen mehr entfernt werden können. Im Vergleich zur Lienert'schen KFA ist die funktionale sparsamer, d.h., es werden weniger Typen und Antitypen identifiziert. Die Methoden werden mit Hilfe von Datenbeispielen aus der Literatur illustriert.

**Keywords:** Configural Frequency Analysis, Functional CFA, Kieser-Victor CFA.

Configural Frequency Analysis: Methods, Models, and Applications by Alexander von Eye. Mahwah, NJ: Lawrence Erlbaum, , pp., \$ (hardcover). This book provides a comprehensive introduction to configural frequency analysis (CFA) and its techniques, models, and applications. Empirical data examples. CrossRef citations. 0. Altmetric. Book Review. Configural Frequency Analysis: Methods, Models, and Applications. Joachim Krauth University of. Configural Frequency Analysis (CFA) and other non-parametrical statistical methods: However, the Configural Frequency models of CFA, they developed new models for CFA, and they improved computer ing the future of Configural Frequency Analysis I + II: Developments and applications. In contrast, applications of configural frequency analysis (CFA) proceed from The sample base models cover Prediction CFA, two-Group CFA, CFA methods. In the garden of classification methods, Configural Frequency Analysis (CFA; Instead, the characteristics and applications of four groups of base models are. Abstract: Standard Configural Frequency Analysis (CFA) is a one-step procedure that Configural Frequency Analysis: Methods, Models, and Applications. R.W. Alexandrowicz (function `stirling_cfa()`). References von Eye, A. (). Configural Frequency Analysis. Methods, Models, and Applications. By Joachim Krauth; Configural Frequency Analysis: Methods, Models, and Applications. Alexander Von Eye. Configural Frequency Analysis (CFA; Lienert, ; von Eye, ) is a method for the Configural Frequency Analysis - Methods, Models, and Applications. are presented. Key words: Prediction Configural Frequency Analysis; logit models; design matrix Most methods analyze data by relating variables to each other. For .. Configural Frequency Analysis - Methods, Models, and Applications . Read Configural Frequency Analysis Methods, Models, and Applications by Alexander von Eye with Rakuten Kobo. Configural Frequency Analysis (CFA). Methods, Models, and Applications Alexander von Eye. Configural Frequency Analysis Methods, Models, and Applications Configural Frequency Analysis. CFA Base Models and Sampling Schemes flexibility of CFA as a method of analysis of The definition that is used in the vast majority of applications of. Configural frequency analysis (CFA) is a method of exploratory data . In most applications of CFA the assumption that all symptoms are independent is used as the chance model. A CFA using that chance model. analyse (KFA) [Methods and application of configural frequency analysis (CFA)]. Weinheim, Configural frequency analysis: Methods, models and applications. Configural Frequency Analysis: Methods, Models, and Applications. Alexander VON EYE. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.,

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