









to the latest two volumes for 14 days

**66** Citations

Share

Metrics

References

Read this article

## **Abstract**

Full Article

➡ Reprints & Permissions

Figures & data

Cohen's kappa coefficient is traditionally used to quantify the degree of agreement between two raters on a nominal scale. Correlated kappas occur in many settings (e.g., repeated agreement by raters on the same individuals, concordance between diagnostic tests and a gold standard) and often need to be compared. While different techniques are now available to model correlated  $\kappa$  coefficients, they are generally not easy to implement in practice. The present paper describes a simple alternative method based on the bootstrap for comparing correlated kappa coefficients. The method is illustrated by examples and its type I error studied using simulations. The method is also compared with the generalized estimating equations of the second order and the weighted least-squares methods.

Keywords:

## Related Research Data

Weighted kappa: Nominal scale agreement provision for scaled disagreement or partial credit.

Source: Psychological Bulletin

Comparing correlated kappas by resampling: Is one level of agreement significantly

different from another?

Source: Journal of Psychiatric Research

A Coefficient of Agreement for Nominal Scales

Source: Educational and Psychological Measurement

A Simple Method for Estimating a Regression Model for κ Between a Pair of Raters

Source: Journal of the Royal Statistical Society Series A (Statistics in Society)

An Introduction to the Bootstrap

Source: Unknown Repository

Ramifications of a population model fork as a coefficient of reliability

Source: Psychometrika

Modeling kappa for measuring dependent categorical agreement data





Information for

**Authors** 

**R&D** professionals

**Editors** 

Librarians

**Societies** 

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

**Open Select** 

**Dove Medical Press** 

F1000Research

Help and information

Help and contact

Newsroom

All journals

**Books** 

## Keep up to date

Register to receive personalised research and resources by email



Sign me up











Accessibility



Copyright © 2025 Informa UK Limited Privacy policy Cookies Terms & conditions



Registered in England & Wales No. 01072954 5 Howick Place | London | SW1P 1WG