

SPSS Macro to Calculate Bonett-Seier's Confidence Interval for a Coefficient of Dispersion in Nonnormal Distributions

SPSS (VERSION 13.0)

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1. Overview

CODCI.SPS computes the confidence interval for the COD in nonnormal distributions as proposed by Bonett & Seier (2006).

The CODCI command takes, as input, a one scale variable. In appraisal ratio studies, this variable could be the appraisal or assessment ratios.

2. Syntax Diagram

```
! CODCI  
  [VAR= varname]  
  [ALPHA={0.05}]  
    {value}
```

VAR=varname: the user MUST specify the name of the variable on which the command is to be performed.

APLHA= #. The user could specify the level of significance. This is optional. The default is 0.05.

3. Installation

Here are the recommended steps for using the CODCI command:

- You need to download the CODCI.SPS program.
- You need an SPSS data file which will be used as the active file for the program.
- You need to write a syntax file which will INSERT the program, GET the SPSS data file, and execute the CODCI command. Here is an example:

```
INSERT FILE=' C:\Temp\CODCI.sps' .  
GET FILE= ' C:\Temp\ratiostudy.sav'.  
!CODCI VAR=ratio ALPHA=0.05.
```

You don't need to change the macro. However, you need to create a syntax file similar to the example above (changing the parts given in bold type with the proper location of the CODCI.SPS program and the SPSS data file, the name of the SPSS data file, and the desired options for the CODCI command).

To practice, please save the package attached to this document into the directory: C:\Temp. Then copy the example above to a new syntax file and execute it as it is. You should obtain the following output:

Bonett-Seier's COD Confidence Interval

Lower Bound : .21369

Upper Bound : .36607

Please, email me (vmamoun@yahoo.com) if you have any question, comment, or recommendation.

4. References

Bonett, D. G. and Seier, E. (2006). Confidence Interval for a Coefficient of Dispersion in Nonnormal Distributions. Biometrical Journal 48, 144-148