Package ‘pathmodelfit’

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**Type** Package

**Title** Path Component Fit Indices for Latent Structural Equation Models

**Version** 1.0.5


**License** GPL-3

**Depends** lavaan

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**LazyData** true

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**NeedsCompilation** no

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Description


Author(s)

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References


Examples

```r
library(lavaan)
model4 <- 'Ldrrew =~ LdrrewI1 + LdrrewI2 + LdrrewI3
Jobcom =~ JobcomI1 + JobcomI2 + JobcomI3
Jobsat =~ JobsatI1 + JobsatI2 + JobsatI3
Orgcom =~ OrgcomI1 + OrgcomI2 + OrgcomI3
Jobsat ~ Ldrrew + Jobcom
```
mediationVC

Orgcom ~ Jobsat'

data(mediationVC)

fit <- sem(model4, sample.cov = mediationVC, sample.nobs = 232)
pathmodelfit(fit)

mediationVC  Williams and Anderson (1994) Mediated Multifoci Model Dataset

Description

This data set is from Williams and Anderson (1994) on the study of methods effects in organizational research using latent-variable models.

Usage

mediationVC

Format

A variance-covariance matrix for 232 observations and 12 variables. The variables are indicators of four constructs: 1) job satisfaction (Jobsat; 10 items), 2) organizational commitment (Orgcom; 8 items), 3) leader-contingent reward behavior (Ldrrew; 10 items), and 4) job complexity (Jobcom; 6 items). The individual item responses were used to create three, total-score indicators for each construct defined as follows:

JobsatI1  Job satisfaction indicator 1
JobsatI2  Job satisfaction indicator 2
JobsatI3  Job satisfaction indicator 3
OrgcomI1  Organizational commitment indicator 1
OrgcomI2  Organizational commitment indicator 2
OrgcomI3  Organizational commitment indicator 3
LdrrewI1  Leader-contingent reward behavior indicator 1
LdrrewI2  Leader-contingent reward behavior indicator 2
LdrrewI3  Leader-contingent reward behavior indicator 3
JobcomI1  Job complexity indicator 1
JobcomI2  Job complexity indicator 2
JobcomI3  Job complexity indicator 3

Author(s)

Steven Culpepper and Larry Williams
Source

Description
pathmodelfit computes fit indices for evaluating the path component of latent variable structural equation models. Available fit indices include RMSEA-P and NSCI-P originally presented and evaluated by Williams and O’Boyle (2011) and demonstrated by O’Boyle and Williams (2011) and Williams, O’Boyle, & Yu, (2019). Also included are fit indices described by Hancock and Mueller (2011).

Usage
pathmodelfit(lavaanoutput)

Arguments
lavaanoutput A lavaan sem object.

Value
A vector with RMSEA-P, a p-value for the chi-square test comparing the theoretical and saturated model, a 90 percent confidence interval for RMSEA-P, NSCI-P, and SRMRs, RMSEAs, TLI’s, and CFI’s.

References
Examples

library(lavaan)

model4 <- '  Ldrrew =~ LdrrewI1 + LdrrewI2 + LdrrewI3  
  Jobcom =~ JobcomI1 + JobcomI2 + JobcomI3  
  Jobsat =~ JobsatI1 + JobsatI2 + JobsatI3  
  Orgcom =~ OrgcomI1 + OrgcomI2 + OrgcomI3  
  Jobsat ~ Ldrrew + Jobcom  
  Orgcom ~ Jobsat'

data(mediationVC)

fit <- sem(model4, sample.cov = mediationVC, sample.nobs = 232)
pathmodelfit(fit)
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