R documentation

of 'NEWS.Rd'

January 10, 2015

Changes in Version 0.15-5

- implemented an `anova()` method for all models (except LLRAs, which have their own: `anova.llra`). see ?anova.eRm
- added a function to compute separation reliability, as proposed in Wright & Stone (1999; see ?SepRel).
- `plotINFO()` accepts more arguments via `...` (see ?plotINFO).
- fixed a bug in `plotPWmap()`.
- fixed a bug in the internal function `get_item_cats()` related to NAs (affecting LLRA and item-information functions).
- switched encoding to UTF-8 to avoid problems with diacritics, etc. (e.g., Martin-Löf).
- updated citations.
- general improvements.

Changes in Version 0.15-4

- streamlining some functions, updating the vignette, etc.
- warnings are now treated more consistently and can be suppressed with `suppressWarnings()`
- the `plotGOF()` function was revamped and tidied up in a couple of places, e.g.:
  - the plotting order of elements in a non-interactive call has been changed to put confidence ellipses and lines in the background and text in the foreground.
  - the x- and y-limits are now dynamically computed by default, so that confidence regions and ellipses are inside the plotting region.
  - the leading "I" before item numbers has been removed for better legibility.
- moved NEWS to the new fancy `NEWS.Rd` file/format

Changes in eRm version 0.15-3

- an error in `test_info()` was fixed.
- **eRm** now depends on R $\geq 3.0.0$

Changes in eRm version 0.15-2

- an error in `Tpbis.stat` was fixed.

Changes in eRm version 0.15-1

- a bug in `person.parameter()` has been fixed that caused the estimation to crash in some cases.
- a bug in `thresholds()` has been fixed that caused the routine to crash.

Changes in eRm version 0.15-0

- the **RaschSampler** package has been merged into **eRm** for convenience (still available as a separate package).

Changes in eRm version 0.14-5

- the package is now byte-compiled by default.
- some statistics added to `NPtest()`, T7 and T7a removed.
- fixed a bug in `plotPWmap()`.
- fixed the `mplot` argument in plotting routines.
- fixed the split-criterion `"all.r"` in `LRtest()`.
- deleted all usages of `data()` in examples, since eRm uses "lazy data."

Changes in eRm version 0.14-4

- when calling `NPtest()`, the **RaschSampler** can now be controlled more specifically (`burn_in`, `step`, `seed`).
- various improvements and bugfixes for LLRA-related functions.
- person parameter values can be extracted now for all persons using `coef()`. Additionally, in-/exclusion of extrapolated values (for 0 and perfect scores) can be controlled via the argument `extrapolated`.
- LRtest now computes standard errors (`se = TRUE`) by default.
- plotDIF now plots "difficulties" for all models (formerly, "easiness" parameters were plotted for Rasch models).

Changes in eRm version 0.14-3

- minor bug fixed in `plotGOF()`, where on rare occasions confidence ellipses were plotted together with control lines (spotted by Peter Parker)
- improved labelling in `plotjointICC()`

Changes in eRm version 0.14-2

- warning regarding group assignment when using median or mean split removed from `MLoef()`
- modification in `NPtest()` to split long output lines
- changed the delimiters of `plotDIF()` confidence intervals to `pch = 20` (small bullet).

Changes in eRm version 0.14-1

- new experimental functions to calculate and plot item and test information (by Thomas Rusch)

- bug fixed in the calculation of item and person Infit t and Outfit t (hint from Rainer Alexandrowicz).

- **eRm** no longer depends on the **RaschSampler** package. However, it must be installed to use NPtest().

- changed the delimiters of plotDIF() confidence intervals to pch = 20.

Changes in eRm version 0.14-0

- new (wrapper) function LLRA() for fitting linear logistic models with relaxed assumptions including utilities for preparing data (llra.datprep()), setting up (build_W()) and modifying (collapse_W()) design matrices, comparing LLRA models (anova()) and plotting results (plotTR() and plotGR()) (by Thomas Rusch).

- "exact" version of the Martin-Löf test for binary items and arbitrary splits added as method to NPtest().

- in plotGOF() confidence ellipses can now be drawn for subsets of items, optionally using different colours

- new function plotDIF() (by Kathrin Gruber): plots confidence intervals for item parameters estimated separately in subgroups, uses LR objects as input

- adapted the MLoef() function to work with polytomous data and more than two item groups

- error checks in NPtest:
  1. 0/full responses for items meaningless for NPtest,
  2. group in method = "T4" must be of type logical,
  3. specifying all items for T4 gives meaningless results.

- warning regarding group assignment when using median split removed from LRtest() and Waldtest().

- some modifications in plotPWmap(): horizontal plotting, different default plotting symbols, option to change size of plotting symbols

- bug in MLoef() fixed (now using logs in calculating the person contributions)

- **eRm** now depends on R $\geq$ 2.12.0

- Latin1 encoding removed

- bug in plotICC() (always same title) fixed

Changes in eRm version 0.13-0

- LLTM(), LRSM(), and LPCM() work now for repeated measurement designs with treatment groups and missing values.

- Rename vignette to "eRm".

Changes in eRm version 0.12-2

- new function plotPWmap() to plot Bond-and-Fox style pathway maps for the data by Julian Gilbey. Since calculation of the t-statistics requires calculation of the kurtosis of the standardized residuals, according changes to itemfit.ppar(), personfit.ppar(), pifit.internal(), print.ifit(), and print.pfit().

- `plotPImap()` patched by Julian Gilbey: length of `item.subset` did not match the documentation, warning stars did not all appear, pre-calculated person.parameter data can be passed to the function via pp, mis-ordered items can be coloured. some minor bugs fixed.

- the optimizer can be changed to `optim()` using `fitctrl <- "optim"` and reset to `nlm()` (the default) with `fitctrl <- "nlm"`

- value of `LRtest()` now contains the list `fitobj` which contains the model objects according to the subgroups specified by `splitcr`

- `MLoef()` no longer supports missing values

Changes in eRm version 0.12-1

- function invalid from package **gtools** integrated into **eRm**. **eRm** no longer depends on **gtools**.

Changes in eRm version 0.12-0

- for RM(), RSM(), and PCM(): eta parameters are now displayed as difficulty parameters; `print()` and `summary()` methods changed accordingly.

- new labeling of eta parameters in RM(), RSM(), and PCM(). they now are labeled according to the estimated parameters for items (RM()), items + categories (RSM()), items x categories (PCM())

- function `MLoef()` for Martin-Löf-Test added

- df in `personfit()` and `itemfit()` corrected

- the `logLik()` functions now extract the log-likelhood and df into objects of class `"logLik.eRm"` and `"loglik.ppar"` with elements `loglik` and `df`. the corresponding print methods have been modified accordingly.

- method `coef.ppar()` to extract person parameter estimates added

- option for beta parameters added to coef.eRm

- in confint.eRm: default `parm = "beta"`

- minor modifications in the help file for IC()

- `plotPImap()`: revised rug added, bug concerning `item.subset` fixed, minor modifications to enhance readability

- minor modifications in `plotjointICC()`: allows for main title and colors, option `legpos = FALSE` suppresses legends, dev.new removed, `legend = FALSE` produced incorrect labeling

- minor modifications in `plotICC()`: allows for main title and colors, default coloring with `col = NULL` instead of NA for compatibility, option `legpos = FALSE` suppresses legends, `mplot` is now FALSE if only one item is specified

- plot.ppar: dev.new removed

- option "visible" in print.ifit und print.pfit to allow for avoiding overly long output and for extraction of infit and outfit values (maybe changed to a coef method later)

- `strwrap()` for NPtest print methods to break long lines

- new methods `IC.default()` and `pmat.default()` for enhanced error messages

- lazy loading package and datafiles

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