Whats' beyond Concerto: An introduction to the R package *catR*

Final comments

The Psychometrics Centre, Cambridge, June 10th, 2014

Final comments

This workshop focused on

- IRT and CAT
- R software and R package *catR*
- Practical applications of *catR* with a live demonstration

catR is

- open source and freely accessible
- complete (for dichotomous and polytomous IRT models)
- flexible
- regularly updated

Final comments

Several aspects were not covered by this workshop:

- content balancing: can be controled with appropriate design of the item bank and options in `randomCAT`

- post-hoc simulations: CAT responses are randomly drawn from the theoretical distribution of a Bernoulli variable, but real (observed) responses can be provided instead

- generation of numerous response patterns simultaneously: feasible with the `simulateRespondents` function (works similarly to `randomCAT`)

- only a few options for next item selection and proficiency estimation were illustrated

Final comments

Future plans for *catR*:

- incorporate multidimensional IRT models

- incorporate testlet IRT models

- incorporate response-time IRT models

- ...

- make *catR* THE most complete and stable R package for adaptive testing

Final comments

To get more information about *catR*:

- Magis, D., & Raîche, G. (2012). Random generation of response patterns under computerized adaptive testing with the R package catR. *Journal of Statistical Software, 48 (8)*, 1–31.

- The *catR* help files...

- ... or send me (an) email(s) :-)

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THANK YOU!