R documentation

of 'NEWS.Rd'

October 11, 2019

NEWS
News for Package **DirichletReg**

Changes in Version 0.6-4

- Fixed: Cutoff in formula-deparsing removed.
- Removed **rgl** dependency (package will be loaded if necessary).

Changes in Version 0.6-3

- Instead of producing an error, density functions now return NaN with a warning if any element in `alpha` is <= 0.

Changes in Version 0.6-2

- Fixed an error in the ternary plot (bottom axis tick labels were printed in reversed order; pointed out by Emilio A. Laca).
- Imports functions from default packages, as required by the new CRAN-check.
- Changed the `Description` field to eliminate the note "Malformed Description field: should contain one or more complete sentences." when checking the package.

Changes in Version 0.6-1

- Re-derived gradients/Hessians, optimized C-code, and tweaked computation of starting values which leads to considerably better performance.
- Fixed some bugs in `drop1`.
- Expanded **testthat** checks.

Changes in Version 0.6-0

- All likelihood and gradient functions are now written in C (all called via `.Call()` now instead of `.C()`) which leads to a considerable gain in speed.
- A `drop1` method for Dirichlet regression models was added. As it is still experimental and will probably change, use it with care. Options such as `scope` will be added in one of the next releases.

- Fixed a bug in the `print` method for confidence intervals and one in `confint.DirichletRegModel()`.

- Expanded the **testthat** check- and test-suite.

- Known issue: If you have collinear (aliased) terms, the estimation will fail. This will be handled automatically in subsequent releases, but for now, please remove the respective terms. If you fit a model and it says something like:

```
Error in prepareFixed(start = start, activePar = NULL, fixed = fixed) :
At least one parameter must not be fixed using argument 'fixed'
```

you most likely have collinear terms or "empty" combinations of interaction terms.

Changes in Version 0.5-2

- Fixed checking functions in `tests/testthat`.

Changes in Version 0.5-1

- Fixed a bug when using the `subset` argument.

- Added tolerance for normalization check to `DR_data`.

- moved `NEWS` to the new fancy `NEWS.Rd` file/format.

- Added the possibility to do quick analyses and transforming data "on the fly", like `DirichReg(DR_data(A) ~ 1)`. However this is only intended for quick checking purposes and may be removed at any time.

Changes in Version 0.5-0

- Transformation in `DR_data` is now not only `TRUE`/`FALSE`, but, by default, a small numeric value to avoid troubles with floating point numbers close to 0 or 1.

- Time-critical routines were implemented in `C` (pure `R` versions are available, see `?ddirichlet`).

- `anova.DirichletRegModel` now invisibly returns results as an object that is printed by a method.

- Optimized estimation routines.

- Fixed a bug in the predict method.

- Started development of a comprehensive test-suite using **testthat**.

- Published a working paper on the package:
  Maier, M. J. (2014). DirichletReg: Dirichlet Regression for Compositional Data in R. Research Report Series / Department of Statistics and Mathematics, 125. WU Vienna University of Economics and Business, Vienna. http://epub.wu.ac.at/4077/

- Added vignette with code to the working paper.

- Added citation info.

Changes in Version 0.4-1

- The `trafo` Argument of `DR_data` has been changed, because it has lead to problems in practical applications when numbers very close to 0 or 1 were present.

- `DR_data` checks for negative values and generates an appropriate error message.

- `DR_data` has been made more robust in the presence of `NA`s.

Changes in Version 0.4-0

- Data structure generated by `DR_data` has changed – the new objects can now be integrated into data frames.
- Formula processing is now handled by the package **Formula**.
- New methods have been implemented, especially for the class `DirichletRegModel`.
- The documentation is now quite complete.
- Some speed improvements could be achieved.
- Lots of minor (invisible) changes.

Changes in Version 0.002

- Added the analytical Gradient and Hessian for both parametrizations.
- Optimization: preliminary results by BFGS that become starting values for Newton-Raphson optimization computing the final results.
- Implemented some residuals
- Updated help entries

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