`DAS+R`: A graphical user interface for multivariate data analysis in R

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Abstract

This contribution presents the R package `DAS+R`, which is still under development. The package provides a graphical user interface that should ease the application of more or less sophisticated statistical methods. It is based on the R Commander [Fox 2005] and is implemented using Tcl/Tk [Welch and Jones 2003]. `DAS+R` is designed for the analysis of (spatially depending) multivariate data, in particular with problems of geochemical data in mind.

It is important to note that `DAS+R` follows the following three fundamental principles:

- Interactive definition of data subsets (numerically or graphically) together with set operations. These subsets are then used in almost all graphics and computations.

- Intensive use of possible relations between the geographical information with the values of data in statistical and graphical analysis.

- Fast reproducibility and repeatability with small variations in the analysis.

References

[Fox 2005] J. Fox. The R Commander: A Basic-Statistics Graphical User Interface to R. *Journal of Statistical Software*, 14(9), 1–42, 2005. URL http://www.jstatsoft.org/v14/i09.

[Welch and Jones 2003] B.B. Welch and K. Jones. *Practical Programming in Tcl and Tk*. Prentice Hall PTR, 2003.