

## ***Chemometrics With R Multivariate Data Ysis In The Natural Sciences And Life Sciences***

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***Chemometrics - an overview | ScienceDirect Topics***

***Software description regarding the new features will be published soon in Chemometrics and Intelligent Laboratory Systems. Summary. An updated version of the graphical user-friendly interface related to the Multivariate Curve Resolution-Alternating Least Squares (MCR-ALS) algorithm is presented.***

***Chemometrics With R Multivariate Data***

***Chemometrics is the tool for extracting information from multivariate chemical data using tools of statistics and mathematics. With the advance of computational techniques, chemometrics has become a leading tool for faster analysis of results/data and shorter product development time.***

***Multivariate Curve Resolution Alternating Least Squares***

***Multivariate statistics is a subdivision of statistics encompassing the simultaneous observation and analysis of more than one outcome variable. Multivariate statistics concerns understanding the different aims and background of each of the different forms of multivariate analysis, and how they relate to each other.***

***Multivariate statistics - Wikipedia***

*The h-outlyingness index (HOI) is described to perform outlier detection. HOI is defined as suppose a given data point in a data set of  $N$  data points, if at most  $M\%$  of all the  $(N - 1)$  one-to-rest distances is no less than  $M\%$  of all the  $N(N - 1)/2$  pairwise distances, the HOI value for the given data point will be  $M\%$ . The investigation results demonstrate that HOI is a simple, nonparametric ...*

*Multivariate analysis of variance - Wikipedia*

*CRAN Task Views. CRAN task views aim to provide some guidance which packages on CRAN are relevant for tasks related to a certain topic. They give a brief overview of the included packages and can be automatically installed using the `ctv` package. The views are intended to have a sharp focus so that it is sufficiently clear which packages should be included (or excluded) - and they are not meant ...*

*Fault detection and diagnosis in multivariate systems ...*

*In statistics, multivariate analysis of variance (MANOVA) is a procedure for comparing multivariate sample means. As a multivariate procedure, it is used when there are two or more dependent variables, and is often followed by significance tests involving individual dependent variables separately.*

*Journal of Chemometrics - Wiley Online Library*

*For fault data sets 10, 11, 16, 19 and 21, the  $W T r 2 +ET$  statistics have much higher FSDRs than other three methods. The FDDs of  $W T r 2 +ET$  are generally smaller than those of JITFA. For all of 21 fault data sets, the  $W T r 2 +ET$  statistics have much smaller FARs than the HDPCA method.*

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