

NAME

eqmeandisp – test for simultaneous equality of mean vectors and dispersion matrices

SYNOPSIS

eqmeandisp [-s *signif*] [-b] [-v] < incov 2> ASCII-text

DESCRIPTION

eqmeandisp reads means and dispersion matrices as written by *disc* or *maf* and performs a Wishart distribution based test for simultaneous equality of mean vectors and dispersion matrices for all class pairs. The output consists of ASCII text on pairwise comparisons written to *stderr*. Nothing is written to *stdout*. Low values of $\ln(Q)$ rejects the hypothesis of simultaneous equality of mean vectors and dispersion matrices.

OPTIONS

-s *signif*
signif is the significance level, defaults to 0.95

-b use Bonferroni method for multiple comparisons

-v verbose output to *stderr* on all class pairs

SEE ALSO

disc(1), maf(1), eqdisp(1), wishart(1)

REFERENCES

T.W. Anderson (1984). *An Introduction to Multivariate Statistical Analysis*. Second Edition. John Wiley.

J.A. Rice (1995). *Mathematical Statistics and Data Analysis*. Second Edition. Duxbury Press.

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