NAG Fortran Library Chapter Contents

G03 – Multivariate Methods

Note: please refer to the Users' Note for your implementation to check that a routine is available.

G03 Chapter Introduction

Routine Name	Mark of Introduction	Purpose
G03AAF	14	Performs principal component analysis
G03ACF	14	Performs canonical variate analysis
G03ADF	14	Performs canonical correlation analysis
G03BAF	15	Computes orthogonal rotations for loading matrix, generalized orthomax criterion
G03BCF	15	Computes Procrustes rotations
G03CAF	15	Computes maximum likelihood estimates of the parameters of a factor analysis model, factor loadings, communalities and residual correlations
G03CCF	15	Computes factor score coefficients (for use after G03CAF)
G03DAF	15	Computes test statistic for equality of within-group covariance matrices and matrices for discriminant analysis
G03DBF	15	Computes Mahalanobis squared distances for group or pooled variance-covariance matrices (for use after G03DAF)
G03DCF	15	Allocates observations to groups according to selected rules (for use after G03DAF)
G03EAF	16	Computes distance matrix
G03ECF	16	Hierarchical cluster analysis
G03EFF	16	K-means cluster analysis
G03EHF	16	Constructs dendrogram (for use after G03ECF)
G03EJF	16	Computes cluster indicator variable (for use after G03ECF)
G03FAF	17	Performs principal co-ordinate analysis, classical metric scaling
G03FCF	17	Performs non-metric (ordinal) multidimensional scaling
G03ZAF	15	Produces standardized values (z-scores) for a data matrix