Log-Linear Poisson Graphical Model with Hot-Deck Multiple Imputation

Nathalie Villa-Vialaneix[1] and Alyssa Imbert[1]

[1]MIAT, Université de Toulouse, INRA, Castanet-Tolosan, France

29 mai 2017

Abstract

Short vignette pointing to RNAseqNet User's Guide.

Package

RNAseqNet 0.1.1

Contents

1   Description

The **R** package *RNAseqNet* can be used to infer networks from RNA-seq expression data. The count data are given as a $n \times p$ matrix in which n is the number of individuals and p the number of genes. This matrix is denoted by $\mathbf{X}$ in the sequel.

Eventually, the RNA-seq dataset is complemented with an $n' \times d$ matrix, $\mathbf{Y}$ which can be used to impute missing individuals in $\mathbf{X}$ as described in [Imbert *et al.*, 2017]

The RNAseqNet User's Guide can be opened with:

```
RNAseqNetUsersGuide()
```

The location of the source file is given by:

```
RNAseqNetUsersGuide(html = FALSE)
```

2   Reference

Imbert, A., Valsesia, A., Le Gall, C., Armenise, C., Lefebvre, G., Gourraud, P.A., Viguerie, N. and Villa-Vialaneix, N. (2017) Multiple hot-deck imputation for network inference from RNA sequencing data. *Preprint*.