Independent random noise model

Parametrization

This model simply defines \S to be a vector of independent and Gaussian distributed random variable with precision τ :

 $\pi(\mathbf{x}|\tau) \propto \tau^{n/2} \exp\left\{-\frac{\tau}{2}\mathbf{x}^T\mathbf{I}\mathbf{x}\right\}$

where I is the identity matrix.

Hyperparameters

The precision parameter τ is represented as

$$\theta = \log \tau$$

and the prior is defined on θ .

Specification

theta

The independent model is specified inside the f() function as

```
f(<whatever>,model="iid", hyper = <hyper>)
```

Hyperparameter spesification and default values

hyper

```
name log precision
short.name prec
prior loggamma
param 1 5e-05
```

initial 4 fixed FALSE

to.theta function(x) log(x)

from.theta function(x) exp(x)

constr FALSE

nrow.ncol FALSE

augmented FALSE

aug.factor 1

aug.constr

n.div.by

n.required FALSE

set.default.values FALSE

pdf indep

Example

Notes

None