

Package: SlicedLHD (via r-universe)

August 28, 2024

Version 1.0

Date 2024-02-28

Title Sliced Latin Hypercube Designs

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Depends R (>= 4.3.0)

Description A facility to generate sliced (orthogonal) Latin hypercube designs with four and five slices. For details about sliced and orthogonal Latin hypercube designs, see Yang, J. F., Lin, C. D., Qian, P. Z., and Lin, D. K. (2013). ``Construction of sliced orthogonal Latin hypercube designs". *Statistica Sinica*, 1117-1130, <doi:10.5705/ss.2012.037>.

Note This package is developed as part of ongoing Ph.D. (Agricultural Statistics) thesis research work of first author at ICAR-Indian Agricultural Statistics Research Institute, New Delhi, India.

License GPL (>= 2)

NeedsCompilation no

Date/Publication 2024-02-29 12:42:40 UTC

Repository <https://doer0.r-universe.dev>

RemoteUrl <https://github.com/cran/SlicedLHD>

RemoteRef HEAD

RemoteSha 4890f27ce407b7f35b6b56670c3c6eb70e57ffdd

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slh *Sliced Latin hypercube designs*

Description

This function generates a sliced Latin hypercube designs

Usage

```
slh(n1, t, q)
```

Arguments

n1	number of runs in first slice
t	number of slices, currently 3 or 4 are supported
q	number of columns, between 2 to 6

Value

A sliced Latin hypercube design with q columns in $t(n1-1) + 1$ runs in t slices

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Examples

```
slh(5,3,4)
```

solh *Sliced orthogonal Latin hypercube designs*

Description

This function generates a sliced orthogonal Latin hypercube designs upto 6 columns

Usage

```
solh(n1, t, q)
```

Arguments

n1	number of runs in first slice
t	number of slices, currently 3 or 4 are supported
q	number of columns, between 2 to 6

solh

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Value

A sliced orthogonal Latin hypercube design with q columns in $t(n-1) + 1$ runs in t slices

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Examples

`solh(4,5,2)`

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