

Package: HDOMDesign (via r-universe)

September 15, 2024

Version 1.0-1

Title High-Dimensional Orthogonal Maximin Distance Designs

Description Contains functions to construct high-dimensional orthogonal maximin distance designs in two, four, eight, and sixteen levels from rotating the Kronecker product of sub-Hadamard matrices.

License LGPL-2.1

Author Xu He [aut, cre], Fasheng Sun [aut]

Maintainer Xu He <hexu@amss.ac.cn>

Depends HadamardR

NeedsCompilation yes

Repository CRAN

Date/Publication 2022-06-21 08:50:05 UTC

Contents

HDOMdesign	1
Index	3

HDOMdesign	<i>High-dimensional orthogonal maximin distance designs</i>
------------	---

Description

Generates a high-dimensional orthogonal maximin distance designs.

Usage

```
HDOMdesign(n,p,s)
HDOM2(n,p)
HDOM4(n,p)
HDOM8(n,p)
HDOM16(n,p)
```

Arguments

n	Number of points.
p	Number of dimensions.
s	Number of levels.

Details

These functions generate high-dimensional orthogonal maximin distance designs. In particular, HDOM2, HDOM4, HDOM8, and HDOM16 generate designs in two, four, eight, and sixteen levels.

Value

The value returned from the function is an n times p matrix giving the experimental design

Examples

```
HDOM2(n=80, p=60)  
HDOM4(n=80, p=60)  
HDOM8(n=80, p=60)  
HDOM16(n=80, p=60)  
HDOMdesign(n=80, p=60, s=4)
```

Index

HDOM16 (HDOMdesign), [1](#)
HDOM2 (HDOMdesign), [1](#)
HDOM4 (HDOMdesign), [1](#)
HDOM8 (HDOMdesign), [1](#)
HDOMdesign, [1](#)