Package: PsiUEngineRL (via r-universe)

November 6, 2026

Title Homotopy Type Theory Engine for Reinforcement Learning

Version 0.1.3

Description Core architecture for interpreting continuous data streams as homotopy types. It evaluates identity paths against the Gnomonic Ratio ('Lombardi', 2026) <doi:10.5281/zenodo.20385840> and processes them via a dynamic 'Tableau Refutation Tree'. The engine categorizes data into necessity (BOX), possibility (DIAMOND), or noise based on deviation thresholds from the invariant value. Includes adaptive auto-tuning and native high-contrast Cartesian graphics for structural entropy isolation.

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Encoding UTF-8

RoxygenNote 7.3.3

Depends R (>= 3.5)

NeedsCompilation no

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Repository https://lombardisedr-dev.r-universe.dev

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PsiU_Engine_RL *PsiU Engine per Reinforcement Learning*

Description

Interpreta vettori di input come tipi omotopici valutandoli rispetto al Gnomonic Ratio.

Usage

```
PsiU_Engine_RL(raw_input_vector)
```

Arguments

raw_input_vector
: Un vettore numerico di input.

Value

Un data.frame con valori, distanze e stati modali.

Examples

```
# Esempio di utilizzo con valori vicini e lontani dal Gnomonic Ratio
inputs <- c(0.618, 0.619, 0.700)
PsiU_Engine_RL(inputs)
```

PsiU_MultiLibrary_Tree *PsiU MultiLibrary Tree Manager*

Description

Gestisce l'albero di confutazione tableau e la cristallizzazione dei valori.

Usage

```
PsiU_MultiLibrary_Tree(new_value, user_filename = NULL, verbose = FALSE)
```

Arguments

new_value	Singolo valore numerico da analizzare.
user_filename	Nome del file RDS. Se NULL, salva in una locazione temporanea.
verbose	Logico. Se TRUE, stampa i progressi in console.

Value

Una lista contenente la struttura dell'albero aggiornata.

Examples

```
# Esempio di gestione albero (usa file temporaneo per i test)
tmp_file <- tempfile(fileext = ".rds")
PsiU_MultiLibrary_Tree(0.618, user_filename = tmp_file, verbose = TRUE)
```

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