Package 'MinTriadic'

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Type Package

Title Extension to the 'Lolog' Package for 'Triadic' Network Statistics

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Description Provides an extension to the 'lolog' package by introducing the minTriadicClosure() statistic to capture higher-order interactions among triplets of nodes. This function facilitates improved modelling of group formations and 'triadic' closure in networks. A smoothing parameter has been incorporated to avoid numerical errors.

License GPL (>= 3)

Imports Rcpp (>= 0.10.0), lolog

Suggests network, rmarkdown, knitr, sna, testthat

LinkingTo Rcpp, lolog, BH

NeedsCompilation yes

Encoding UTF-8

RoxygenNote 7.3.2

VignetteBuilder knitr

Author Lekshmy Hema Nair [aut, cre]

Maintainer Lekshmy Hema Nair <lekshmyrohit25@gmail.com>

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`minTriadicClosure` *minTriadicClosure*

Description

A smoothed triadic-closure statistic for LOLOG models.

Usage

```
minTriadicClosure(triadDegree, smoothing_k = 1)
```

Arguments

`triadDegree`	Integer threshold for triangle count.
`smoothing_k`	Numeric smoothing parameter.

Details

Returns a registered LOLOG change statistic that smoothly counts how many nodes are in at least ‘triadDegree‘ triangles, using a smoothing parameter.

Value

A LOLOG change statistic object.

Examples

```
registerMinTriadicClosure()  # call once to register the C++ class
stat <- minTriadicClosure(2, 1.5)
print(stat)
```

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