

Resource Summary Report

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Gaussian-Copula Mutual Information (GCMI)

RRID:SCR_016450

Type: Tool

Proper Citation

Gaussian-Copula Mutual Information (GCMI) (RRID:SCR_016450)

Resource Information

URL: <https://github.com/robince/gcmi>

Proper Citation: Gaussian-Copula Mutual Information (GCMI) (RRID:SCR_016450)

Description: Software package of functions for calculating mutual information and other information theoretic quantities using a parametric Gaussian copula.

Abbreviations: GCMI

Synonyms: gcmi : Gaussian-Copula Mutual Information, Gaussian-Copula Mutual Information

Resource Type: data analysis software, data processing software, software application, software resource

Keywords: gaussian, copula, parametric, equation, calculation, python, matlab, repository, statistic

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UK Biotechnology and Biological Sciences Research Council (BBSRC) BB/M009742/1;
Wellcome Trust 098433;
Wellcome Trust 107802

Availability: Free, Available for download

Resource Name: Gaussian-Copula Mutual Information (GCMI)

Resource ID: SCR_016450

License: GPL v3

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260919T195323+0000

Ratings and Alerts

No rating or validation information has been found for Gaussian-Copula Mutual Information (GCMI).

No alerts have been found for Gaussian-Copula Mutual Information (GCMI).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Roberts L, et al. (2026) Broadband synergy versus oscillatory redundancy in the visual cortex. Nature communications, 17(1).

Corcoran AW, et al. (2025) When your heart isn't in it anymore: cardiac correlates of task disengagement. Communications biology, 8(1), 1646.

Greco A, et al. (2024) Predictive learning shapes the representational geometry of the human brain. Nature communications, 15(1), 9670.

Gelens F, et al. (2024) Distributed representations of prediction error signals across the cortical hierarchy are synergistic. Nature communications, 15(1), 3941.

Deng S, et al. (2022) Hemodynamic and metabolic correspondence of resting-state voxel-based physiological metrics in healthy adults. NeuroImage, 250, 118923.

Gross J, et al. (2021) Comparison of undirected frequency-domain connectivity measures for cerebro-peripheral analysis. NeuroImage, 245, 118660.

Colenbier N, et al. (2020) Disambiguating the role of blood flow and global signal with partial information decomposition. NeuroImage, 213, 116699.

Daube C, et al. (2019) Simple Acoustic Features Can Explain Phoneme-Based Predictions of Cortical Responses to Speech. Current biology : CB, 29(12), 1924.

Fran??a LGS, et al. (2018) Fractal and Multifractal Properties of Electrographic Recordings of Human Brain Activity: Toward Its Use as a Signal Feature for Machine Learning in Clinical Applications. Frontiers in physiology, 9, 1767.

Park H, et al. (2018) Representational interactions during audiovisual speech entrainment: Redundancy in left posterior superior temporal gyrus and synergy in left motor cortex. PLoS biology, 16(8), e2006558.

Ince RA, et al. (2017) A statistical framework for neuroimaging data analysis based on mutual information estimated via a gaussian copula. Human brain mapping, 38(3), 1541.