

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 processing software, software application, data analysis software, software resource

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

Funding: Wellcome Trust 098433;

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UK Biotechnology and Biological Sciences Research Council (BBSRC) BB/J018929/1;

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UK Biotechnology and Biological Sciences Research Council (BBSRC) BB/M009742/1;

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European Research Council 646657

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: 20260731T043009+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 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

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

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.