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An Information Theory Framework for Dynamic Functional Domain Connectivity

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RUNNING TITLE

Information Theory for dynFDC

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Highlights

- An Information Theory Framework for Dynamic Functional Domain Connectivity
- Functional domains (groups of brain networks) share information with each other.
- As in communication theory, information can be measured in bits using entropy.
- The entropy metric utilizes the dynamic succession of connectivity states.
- Results provide evidence for mutual information links among brain areas.
- The manuscript defines an information theory framework for functional connectivity.

Abstract

Background

Keywords: functional MRI; resting state network; functional connectivity; alcoholism; nicotine addiction