Type of the Paper (Article, Review, Communication, etc.)

Independent Mode Decomposition

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**Abstract:**

**Keywords:**

1. Introduction

2. Materials and Methods

2.1. Data Collection

2.2. Estimation of the Spatial Functional Networks

2.3. Estimation of the Functional Network Connectivity

2.4. Estimation of the Dynamic Mode Decomposition

2.4.1. Standard (SVD) DMD

2.4.2. Exact DMD

2.4.3. Comparison of standard vs. exact DMD modes

2.5. Maximizing mode Independence

As presently formulated, dynamic mode decomposition does not guarantee the independence of different modes. This may be by design. Mode , with frequency is likely to display a temporal relationship with mode of frequency . Nonetheless, that it is possible to separate such modes using standard DMD suggests that increased independence is at least plausible. The author will need to consider how to best approach such a problem. Among other questions, he must ask along which dimension(s) he should maximize independence. Should the modes be independent along the spatial or temporal axes?

2.5.1.

4. Next Steps

4.1. Group Distributions

4.2. Large-Scale Modes and their Spectra

4.3. Independent Mode Decomposition

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