

# **Classification of connectivity data.**

Comparison of classifiers and dimensionality reduction techniques.

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Keywords: machine-learning; classification; effective connectivity; functional connectivity; features selection; dimensionality reduction

Running title: Classification of connectivity data.

August 10, 2017

## **Abstract**

This is the abstract.

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# 1 Introduction

## 2 Methods

## 3 Results

### 3.1 Importance of large test-set to assess generalization performance

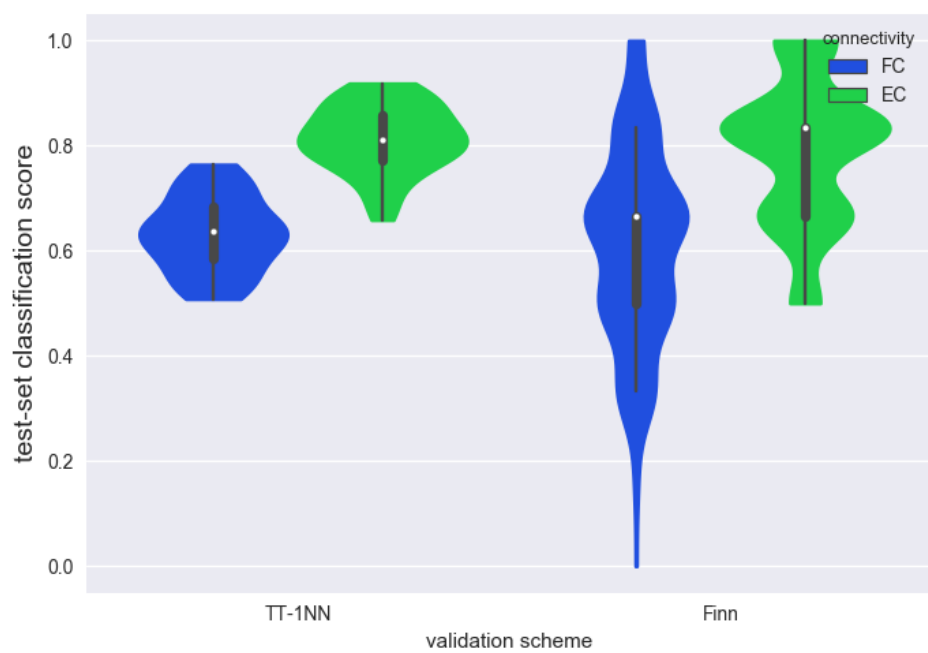


Figure 1: Distribution of test-set generalization score for large and small test set size.

## 3.2 Comparison of classification pipelines for subjects' identity classification

### 3.2.1 z-score

### 3.2.2 PCA

### 3.2.3 Different classifiers

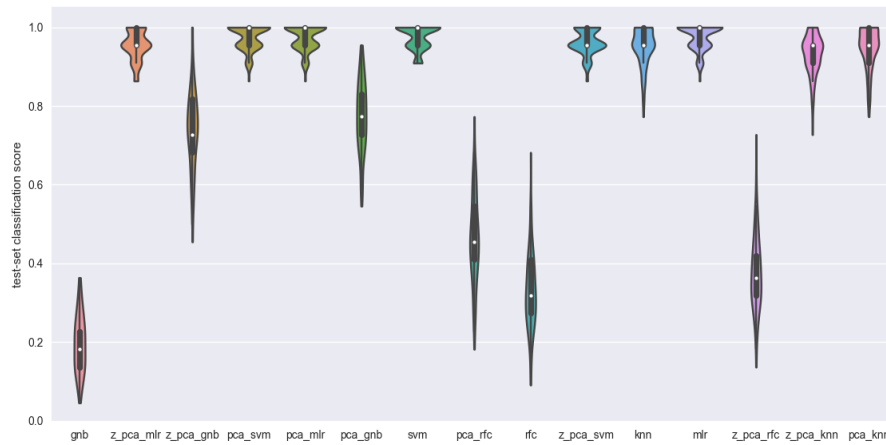


Figure 2: Comparison of classifiers.

### 3.3 Feature selection

#### 3.3.1 Information filters

#### 3.3.2 Randomized Lasso

#### 3.3.3 Recursive feature elimination

### 3.4 Probabilistic class assignment and confidence as graded diagnostics measures

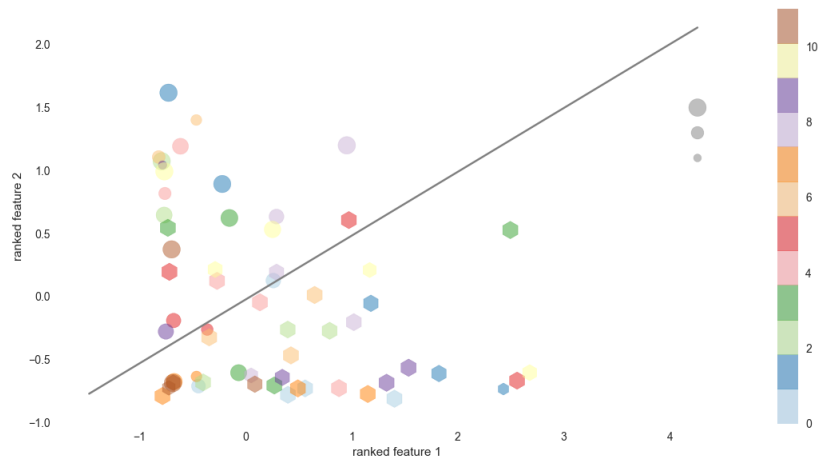


Figure 3: Probability of class assignment.

## 4 Discussion

resume of the results

explain why they are relevant

discuss generality, dependence on parameters, etc.

discuss other possible approaches (other models, methods, etc.)

possible applications to other fields, themes, etc.

other collateral themes

discuss future directions

## Acknowledgments

We thank...

## References