Predicting Terror Attacks
A Data Story

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January 22, 2019

Introduction

Exploring the Data

Terrorist Relationships as a Social Network

Predicting Terror Attacks

A First Unsuccessful Attempt: Setup

- $\mathcal{G}_t =$ graph of terror attacks at time t
- Let $\mathbf{attach}_t$ be a vector such that

$$\mathbf{attach}_t(i) = \begin{cases} 1 & \text{if node added at } t+1 \text{ links to node } i \\ 0 & \text{otherwise} \end{cases} \tag{1}$$

- Idea: $\mathbf{attach}_t$ smooth $\Rightarrow$ terror attack location can be explained by graph topology

A First Unsuccessful Attempt: Result

- Graph nodes: terror attack locations (1293 nodes)
- Graph edges: weight based on proximity of features vector (835'278 edges)
- Complete graph

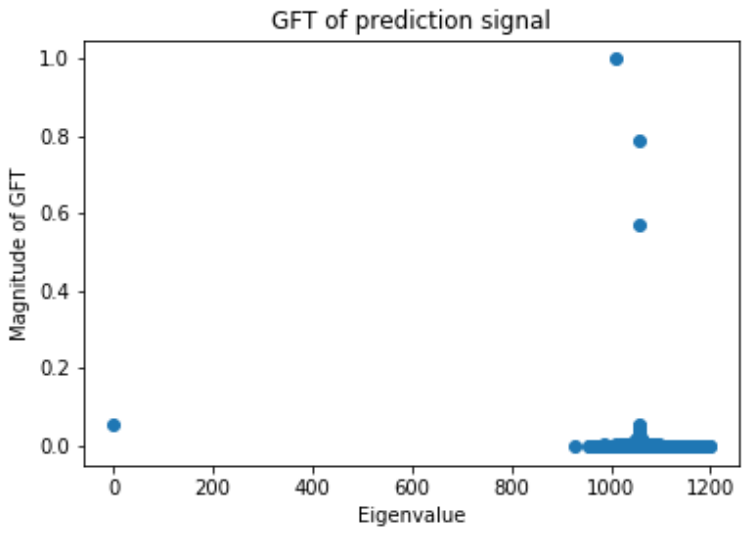

Figure: GFT of **attach**$_{t=1282}$