

Network Science Project 1 Network Analysis of Emails Sent Within Enron

Presented By

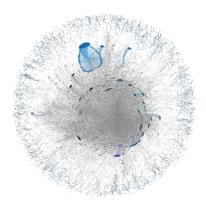
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http://acquayefrank.github.io/

National Research University Higher School of Economics (Moscow)

April 11, 2020

Network Summary Part 1





1. Nodes/Order: 36692

2. Edges/Size: 183831

3. Radius: 7

4. Diameter: 13

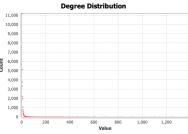
5. Transitivity: 0.085

6. Clustering Co-efficient: 0.497

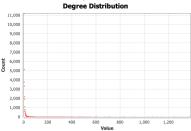
Network Summary Part 2



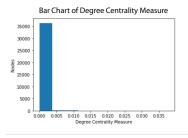
Scatter Plot of Degree Distribution



${\sf Scatter\,Plot\,of\,Weighted\,Degree\,Distribution}$



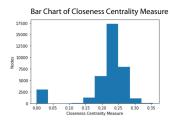




Top Five Nodes according to Degree Centrality

- **1. 5038** -> 0.0376
- **2. 273** -> 0.0372
- **3. 458** -> 0.0343
- **4. 140** -> 0.0339
- **5. 1028** -> 0.0339

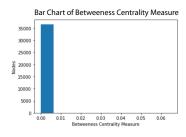




Top Five Nodes according to Degree Centrality

- 1. **136** -> 0.3557
- **2. 76** -> 0.3546
- **3. 46** -> 0.3481
- **4. 140** -> 0.3441
- **5. 370** -> 0.3439





Top Five Nodes according to Degree Centrality

- 1. **5038** -> 0.0648
- **2. 140** -> 0.0604
- **3. 566** -> 0.0363
- **4. 588** -> 0.0354
- **5. 1139** -> 0.0354



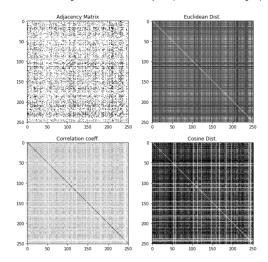


Top Five Nodes according to Degree Centrality

- **1. 5038** -> 0.0161
- **2. 273** -> 0.0033
- **3. 588** -> 0.0032
- **4**. **566** -> 0.0030
- **5. 140** -> 0.0029



Assortative Mixing and Structural Similarity of top 250 Nodes according to page rank



Thank you for your attention!



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