Small Worlds

Project

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DCA

alvarofpp / dataset-flights-brazil

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dataset-flights-brazil

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alvarofpp chore: updates datasets 251ee94 on Aug 7, 2021 26 commits

data	chore: updates datasets	2 years ago
.gitignore	chore: adds .gitignore	2 years ago
LICENSE.md	chore: adds LICENSE.md	2 years ago
README.md	chore: updates README.md	2 years ago
extract.py	refactor: extract script	2 years ago
requirements.txt	chore: adds networkx package	2 years ago
transform_to_airports_csv.py	fix: columns and encode	2 years ago
transform_to_anac_csv.py	fix: files path	2 years ago
transform_to_graphml.py	fix: removes self-loop	2 years ago

README.md

Flights in Brazil

Em semestres anteriores

About

Flights in Brazil registered by ANAC (Agência Nacional de Aviação Civil - National Civil Aviation Agency)

csv brazil python3 dataset flights air-traffic graphml air-traffic-data

Readme
MIT license
Activity
8 stars
2 watching
0 forks
Report repository

Releases

No releases published

Packages

Objetivos

Explorar os conteúdos das semanas 7 e 8.

- Assortatividade
- Distâncias*
- Componentes conectados
- Coeficiente de clustering

* será explorado em trabalhos futuros

README.md

References

- 📚 Newman, Mark. Networks
- 📚 Menczer, Filippo; Fortunato, Santo; Davis, Clayton A. A First Course in Network Science
- 📚 Zinoviev, Dmitry. Complex Network Analysis in Python
- 📚 Coscia, Michele. The Atlas for the Aspiring Network Scientist

Tool	Link
😃 Networkx	networkx.org
💡 Graph-Tool	graph-tool.skewed.de
⚙️ Gephi	gephi.org
🚀 OSMnx	github.com/gboeing/osmnx
💣 ChatGPT	chat.openai.com
💾 Dataset	snap.stanford.edu/data

Lessons

Week 01

- PDF **Course Outline:** Provides an overview of the course structure and topics covered.
- 🎯 Week Goals
  - Your main goal for this week is to create a personal repository for tracking your progress and coursework.
  - Feel free to explore these resources and engage with the course material. If you have any questions or need assistance, please don't hesitate to reach out.
  - Happy coding! 💻🚀

Requisito #01: Escolha pelo menos 5 redes

By *Jure Leskovec*

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Stanford Large Network Dataset Collection

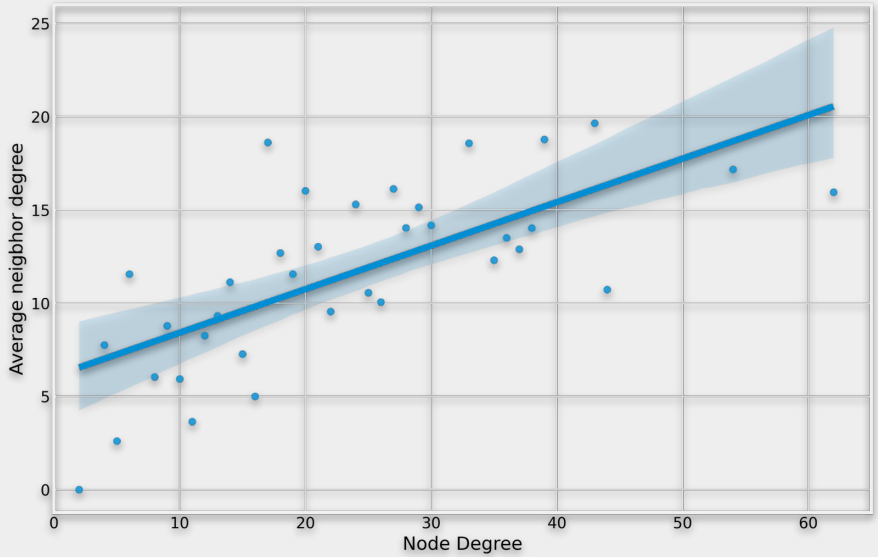
- Social networks : online social networks, edges represent interactions between people
- Networks with ground-truth communities : ground-truth network communities in social and information networks
- Communication networks : email communication networks with edges representing communication
- Citation networks : nodes represent papers, edges represent citations
- Collaboration networks : nodes represent scientists, edges represent collaborations (co-authoring a paper)
- Web graphs : nodes represent webpages and edges are hyperlinks
- Amazon networks : nodes represent products and edges link commonly co-purchased products
- Internet networks : nodes represent computers and edges communication
- Road networks : nodes represent intersections and edges roads connecting the intersections
- Autonomous systems : graphs of the internet
- Signed networks : networks with positive and negative edges (friend/foe, trust/distrust)
- Location-based online social networks : social networks with geographic check-ins
- Wikipedia networks, articles, and metadata : talk, editing, voting, and article data from Wikipedia
- Temporal networks : networks where edges have timestamps
- Twitter and Memetracker : memetracker phrases, links and 467 million Tweets
- Online communities : data from online communities such as Reddit and Flickr
- Online reviews : data from online review systems such as BeerAdvocate and Amazon
- User actions : actions of users on social platforms.
- Face-to-face communication networks : networks of face-to-face (non-online) interactions

Requisito 2:

Para cada uma das redes escolhidas, fazer um gráfico bipartido sobre a assortatividade em relação ao grau dos nós da rede. Faça as figuras em um layout de grid.

Como você interpreta os resultados comparando as diferentes redes?

Gere um arquivo readme específico para essa análise, contando as figuras visualizadas no arquivo e sua interpretação. O texto da interpretação deverá ter entre 500 e 1000 palavras.



Requisito 3:

Reproduzir a tabela abaixo para cada uma das redes escolhidas

Implementar a tabela no formato markdown juntamente com a interpretação dos resultados cuja o texto deverá ter entre 500 a 1000 palavras. A tabela e o texto deverá estar em um arquivo readme.

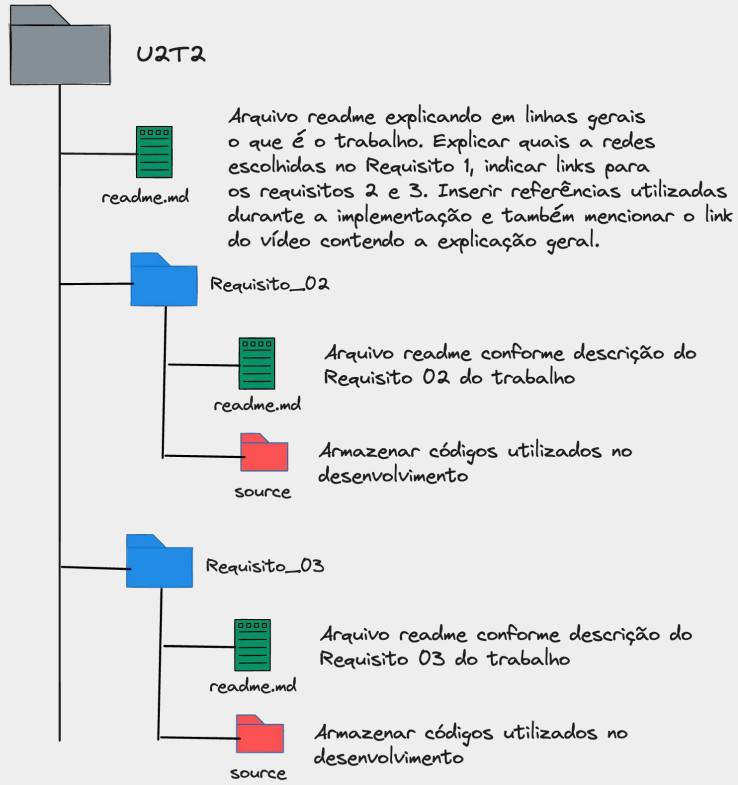
Requisito 4:

Grave um vídeo de até 5min explicando tudo o que foi desenvolvido assim como a explicação dos resultados e os principais achados com o trabalho.

O link do vídeo deverá estar no arquivo readme principal no repositório público do trabalho.

Avaliação

O seu repositório do curso @github



+Trabalho Individual
+2,00 (dois) pontos na Unidade 02
+ Submeter apenas o link do repositório do trabalho em questão
+ Organização!!!!!