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Relatório Técnico

Social Network Analysis: Métricas, Ferramentas e sua Aplicação através de dois Estudos de Caso

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Resumo. Social Network Analysis (SNA) é uma abordagem da Sociologia que analisa os comportamentos das redes Sociais. Nesse relatório utilizamos a linguagem de programação Python para realizar análises de vários algoritmos de SNA, para cada um foi plotado um gráfico seguido de um breve comentário sobre o comportamento observado e os dados analisados em questão. As análises foram divididas em 2 estudos de casos, cada um utilizando um Dataset diferente, um com menos dados e outro com uma quantidade significativa de relações para que se consiga ver a diferença dos estudos de casos.

Abstract. Social Network Analysis (SNA) is a sociology approach that analyzes the behaviors of social networks. In this report, we used the Python programming language to perform analysis of various SNA algorithms, for each one a graph was plotted followed by a brief comment on the observed behavior and the data analyzed in question. The analyzes were divided into 2 case studies, each using a different Dataset, one with less data and the other with a significant amount of relationships so that you can see the difference in the case studies.

Sumário

1.	Introdução	5
2.	Fundamentação teórica e trabalhos relacionados	5
3.	Conceitos básicos	5
4.	Métricas.....	6
4.1.	Grau de Densidade da Rede (Density).....	6
4.2.	Grau de Heterogeneidade (Centralidade do Grupo).....	6
4.3.	Grau de Centralidade de cada Nó (Centrality).....	6
4.4.	Grau de Proximidade da Rede (Closeness centrality).....	6
4.5.	Grau de Intermediação (Betweenness centrality)	6
4.6.	Soma das Centralidades Adjacentes (Eigenvector centrality)	6
5.	Ferramentas	6
5.1.	Graph API Facebook	7
5.2.	NetworkX	7
5.3.	Jupiter Notebook e Google Colab.....	7
6.	Datasets	7
7.	Desenvolvimento / Metodologia	8
8.	Estudo de Caso 1 - Análise de relações anonimizadas de pessoas Facebook	
8.1.	9	9
8.2.	Grau de Densidade da Rede (Density).....	9
8.3.	Grau de Heterogeneidade (Centralidade do Grupo).....	9
8.4.	Grau de Centralidade de cada Nó (Centrality).....	9
8.5.	Grau de Proximidade da Rede (Closeness centrality)	10
8.6.	Grau de Intermediação (Betweenness centrality)	11
8.7.	Soma das Centralidades Adjacentes (Eigenvector centrality)	12
8.8.	Gráfico da Rede Social (SNA)	13
9.	Estudo de Caso 2 - Análise das curtidas de páginas no facebook de uma determinada pessoa.....	14
9.1.	Métricas da Atividade – Estudo de Caso 2	15
9.2.	Grau de Densidade da Rede (Density).....	15
9.3.	Grau de Heterogeneidade (Centralidade do Grupo).....	15
9.4.	Grau de Centralidade de cada Nó (Centrality).....	15

9.5.	Grau de Proximidade da Rede (Closeness centrality)	16
9.6.	Grau de Intermediação (Betweenness centrality)	17
9.7.	Soma das Centralidades Adjacentes (Eigenvector centrality)	18
9.8.	Grafo da Rede	19
9.9.	Grafo da Rede por Peso (Weighted Networks).....	20
10.	Resultados e discussão	22
11.	Referências.....	23
12.	Apêndices - Dados Gerados nas Análises.....	24
13.	Estudo de Caso 1	24
14.	Lista de Centralidade de cada Nó (Centrality)	24
15.	Lista do Grau de Proximidade da Rede (Closeness centrality).....	35
16.	Lista de Grau de Intermediação (Betweenness centrality).....	46
17.	Lista da Soma das Centralidades Adjacentes (Eigenvector centrality) ..	57
18.	Estudo de Caso 2	69
19.	Lista de Centralidade de cada Nó (Centrality)	69
20.	Lista do Grau de Proximidade da Rede (Closeness centrality).....	69
21.	Lista de Grau de Intermediação (Betweenness centrality).....	69
22.	Lista da Soma das Centralidades Adjacentes (Eigenvector centrality) ..	70

1. Introdução

O conceito de Análise de Redes Sociais (ARS) surgiu a partir de estudos realizados pela Sociologia e Antropologia Social, tendo como um dos marcos iniciais os experimentos realizados em 1954 pelo antropólogo J. A. Barnes, que passou a mapear no sudoeste da Noruega, as relações familiares de indivíduos pertencentes a uma vila de pescadores (FELDMAN-BIANCO, 1987). Segundo Barnes, "toda a vida social" poderia ser vista como "um conjunto de pontos", alguns dos quais são unidos por linhas para formarem uma "rede total" das relações.

O objetivo central da análise de redes sociais é medir e representar as relações estruturais de forma precisa e explicar porque elas ocorrem e quais são suas consequências. Relacionamentos estruturais são mais importantes para entender os comportamentos observados que atributos isolados de quem se relaciona. Redes sociais afetam a percepção, crenças e ações através de uma variedade de mecanismos estruturais que são socialmente construídos por relações entre entidades (KNOKE; YANG, 2019).

Relações diretas proporcionam às entidades melhores informações, maior consciência e uma maior susceptibilidade para influenciar e ser influenciado pelos outros. Relações indiretas através de intermediários também traz exposição para novas ideias e acesso potencial para recursos que podem ser adquiridos através de transações com outras entidades. Nas redes sociais as relações estruturais devem ser vistas como processos dinâmicos, que estão constantemente mudando através das interações entre as entidades que as formam.

Nesse contexto foram realizados dois estudos de casos com dois *Datasets* distintos para se aplicar alguns conceitos e algoritmos de ARS, seguidos da plotagem de alguns gráficos para facilitar a visualização e uma breve análise de cada caso para demonstrar a sua aplicação.

2. Fundamentação teórica e trabalhos relacionados

Segundo (BERKOWITZ, 2013), uma Rede Social é uma estrutura social composta por nós (que são geralmente indivíduos ou organizações) que estão ligadas por um ou mais tipos específicos de interdependência, como valores, visões, ideias, trocas financeiras, amigos, parentesco, antipatia, conflito, comércio, links da web, relações sexuais, dispersão de doenças (epidemiologia), rotas aéreas, e outros. Portanto, através das redes sociais os indivíduos que possuem os mesmos interesses e/ou objetivos podem partilhar ideias, informações, entre outros aspectos (DUARTE; BRITO; MEDEIROS, 2009).

Segundo (CAPRA, 2002), o padrão de rede é uma das estruturas de organização mais básicos de todos os sistemas vivos. Em todos os níveis de vida – desde as redes metabólicas das células até as teias alimentares dos ecossistemas, os componentes e os processos dos sistemas vivos se interligam em forma de rede. A aplicação da compreensão sistêmica da vida ao domínio social, portanto, identifica-se à aplicação de nossos conhecimentos dos padrões e princípios básicos de organização da vida – e, em específico, da nossa compreensão das redes vivas – à realidade social (MEDEIROS, 2013).

3. Conceitos básicos

Nessa seção serão definidos alguns conceitos e realizada algumas elucidações de ferramentas que foram utilizadas para os estudos de casos. Dessa forma, norteando e construindo o entendimento técnico para a melhor compreensão da temática.

4. Métricas

O objetivo central da análise de redes sociais é medir e representar as relações estruturais de forma precisa. Para demonstrar as percepções e os efeitos das interações sociais, existem várias métricas que norteiam o estudo e guiam os indicadores de seus comportamentos. Abaixo algumas das métricas que serão utilizadas neste estudo.

4.1. Grau de Densidade da Rede (Density)

Calcula a coesão da rede, que é uma medida utilizada para avaliar o quão coeso está um grupo social e é calculado através da métrica de ARS Densidade. Esta métrica expressa a proporção de arcos que estão presentes em um subconjunto de atores de uma rede social.

4.2. Grau de Heterogeneidade (Centralidade do Grupo)

É uma medida que indica a variabilidade dos graus de visibilidade individuais dos atores de uma rede social e é calculado através da métrica do Grau de Centralidade do Grupo. Esta métrica oferece ao professor uma indicação do quão heterogêneo está o grupo de aprendizes.

4.3. Grau de Centralidade de cada Nó (Centrality)

Essa métrica é definida como o número de ligações incidentes de um vértice. O grau pode ser interpretado como a probabilidade que o vértice tem de receber alguma informação da rede.

4.4. Grau de Proximidade da Rede (Closeness centrality)

Para grafos conectados existe uma distância natural medida entre todos os pares de nós, definido pelo comprimento de seus caminhos mais curtos. O afastamento de um nó é definido como a soma de suas distâncias para todos os outros nós, e sua proximidade é definida como o inverso do afastamento.

4.5. Grau de Intermediação (Betweenness centrality)

Define justamente o número de vezes que um nó age como ponte ao longo do caminho mais curto entre dois outros nós.

4.6. Soma das Centralidades Adjacentes (Eigenvector centrality)

Para essa métrica, deve ser levado em conta a importância de um vértice em função da importância de seus vizinhos. Isto quer dizer que, mesmo se um vértice está conectado somente a alguns outros vértices da rede (tendo assim uma baixa centralidade de grau), estes vizinhos podem ser importantes e, consequentemente, o vértice será também importante, obtendo uma centralidade de autovetor elevada.

5. Ferramentas

Atualmente existem muitos artifícios tecnológicos, ferramentas, frameworks, aplicações e linguagens de programação disponíveis para aplicar os algoritmos das métricas que foram detalhadas anteriormente. Para a demonstração dos estudos de caso deste estudo, foram selecionadas algumas ferramentas para detalhar todos os passos, desde a montagem de um *Dataset*, até plotar alguns grafos para demonstração.

5.1. Graph API Facebook

O termo API é muito comum no meio de desenvolvimento de software, refere-se ao termo em inglês “*Application Programming Interface*” e é utilizado para definir um conjunto de rotinas e padrões de programação para acesso a um aplicativo de software ou plataforma baseada na Web. A partir desta definição, temos o *Graph API* que é exatamente a API do facebook, onde são disponibilizadas várias consultas e ações, porém cada uma com o seu nível de permissão.

O facebook disponibiliza uma ferramenta gráfica que facilita o uso do *Graph API* para conseguir simular as consultas e ações desejadas, que se chama *API Facebook Explorer*. Esta ferramenta permite construir e executar consultas do *Graph API* e ver as respostas para qualquer aplicativo no qual você tiver uma função de administrador, desenvolvedor ou testador.

Mais informações: <https://developers.facebook.com/docs/graph-api>

Explorador da Graph API: <https://developers.facebook.com/tools/explorer/>

5.2. NetworkX

NetworkX é uma biblioteca desenvolvida na linguagem Python para estudar comportamentos de grafos e redes. Tem um conjunto de funcionalidades de algoritmos de estudo de modelos matemáticos. Uma biblioteca muito rica e com diversas funcionalidades.

Mais informações: <https://networkx.github.io/documentation/stable/>

5.3. Jupiter Notebook e Google Colab

Essas duas plataformas são baseadas no paradigma de programação *Literate Computing*, no português Computação Alfabetizada, que consiste em misturar códigos interativos, texto e imagens de forma interativa em um mesmo contexto. Criando ambientes extremamente eficientes onde permite unir código e texto, gerar gráficos “vivos” e criar elementos html em tempo real. Esse paradigma ficou mais conhecido como notebooks, que são uma plataforma de kernels onde contém o ambiente necessário para executar esses comandos.

A ferramenta Jupyter Notebook é uma plataforma que provê todas essas características de Computação Alfabetizada. E o Google Colab é um ambiente de Jupyter Notebook que não requer configuração e é executado na nuvem.

Mais informações Jupyter Notebook: <https://jupyter.org/index.html>

Mais informações Google Colab: <https://colab.research.google.com/>

6. Datasets

Datasets são conjuntos de dados ou uma coleção de dados normalmente tabulados. Podem ter vários atributos e definir diferentes características de um universo de conhecimento.

7. Desenvolvimento / Metodologia

Para realizar o estudo de caso e a ARS vamos utilizar a biblioteca NetworkX e utilizar dois Datasets para os estudos de casos. Um deles foi baixado da internet com dados anonimizados (para preservar a privacidade das pessoas) de relações da rede de relacionamento de um determinado número de pessoas do facebook e outro montado através de uma consulta no Explorador da Graph API do facebook com dados da uma conta pessoal, onde o universo escolhido contém todas as relações das páginas que foram curtidas pelo perfil em questão e a quantidade geral de curtidas que essas páginas continham.

Todas as análises foram realizadas utilizando a linguagem Python através das bibliotecas do NetworkX. As demonstrações e códigos desenvolvidos foram implementados no ambiente Google Colab onde contém todas as demonstrações realizadas.

Para os dois estudos de casos foram analisados:

- Grau densidade da rede;
- Grau de centralidade (Heterogeneidade) da rede;
- Grau de centralidade de cada nó;
- Grau de intermediação (*Betweenness Centrality*);
- Grau de proximidade de cada nó (*Closeness centrality*);
- *Eigenvector centrality*;
- Alguns grafos plotados a partir das informações geradas.

8. Estudo de Caso 1 - Análise de relações anonimizadas de pessoas Facebook

Neste estudo de caso a proposta foi analisar um dataset que tivesse uma grande quantidade de nós e relações entre eles, para que se pudesse demonstrar de maneira relevante as métricas e evidenciar isso nos grafos plotados de maneira evidente.

Foi utilizado um dataset de domínio público com dados anonimizados do Facebook com milhares de relações disponível detalhados a seguir:

Link: https://github.com/alyssonmessias/datasets/blob/master/facebook_combined.txt

Nome Dataset: facebook_combined.txt

Número de nós: 4 , 039

Número de arestas: 88 , 234

Grau médio: 43 . 6910

Link do código Fonte: <https://colab.research.google.com/drive/1IJ5dMewmG-ewrps2zPfNdTCvKjr3U9Pg>

8.1. Métricas da Atividade – Estudo de Caso 1

No estudo de caso 1 a amostra de dados é bem ampla, com muitos nós. A seguir serão detalhadas os comportamentos dos nós após aplicadas diversas métricas.

8.2. Grau de Densidade da Rede (Density)

0.010819963503439287

A densidade de uma rede é a razão entre o número de arestas na rede e o número total de arestas possíveis entre todos os pares de nós. Quanto mais próxima de 1 maior a densidade, nessa rede temos uma densidade baixa.

8.3. Grau de Heterogeneidade (Centralidade do Grupo)

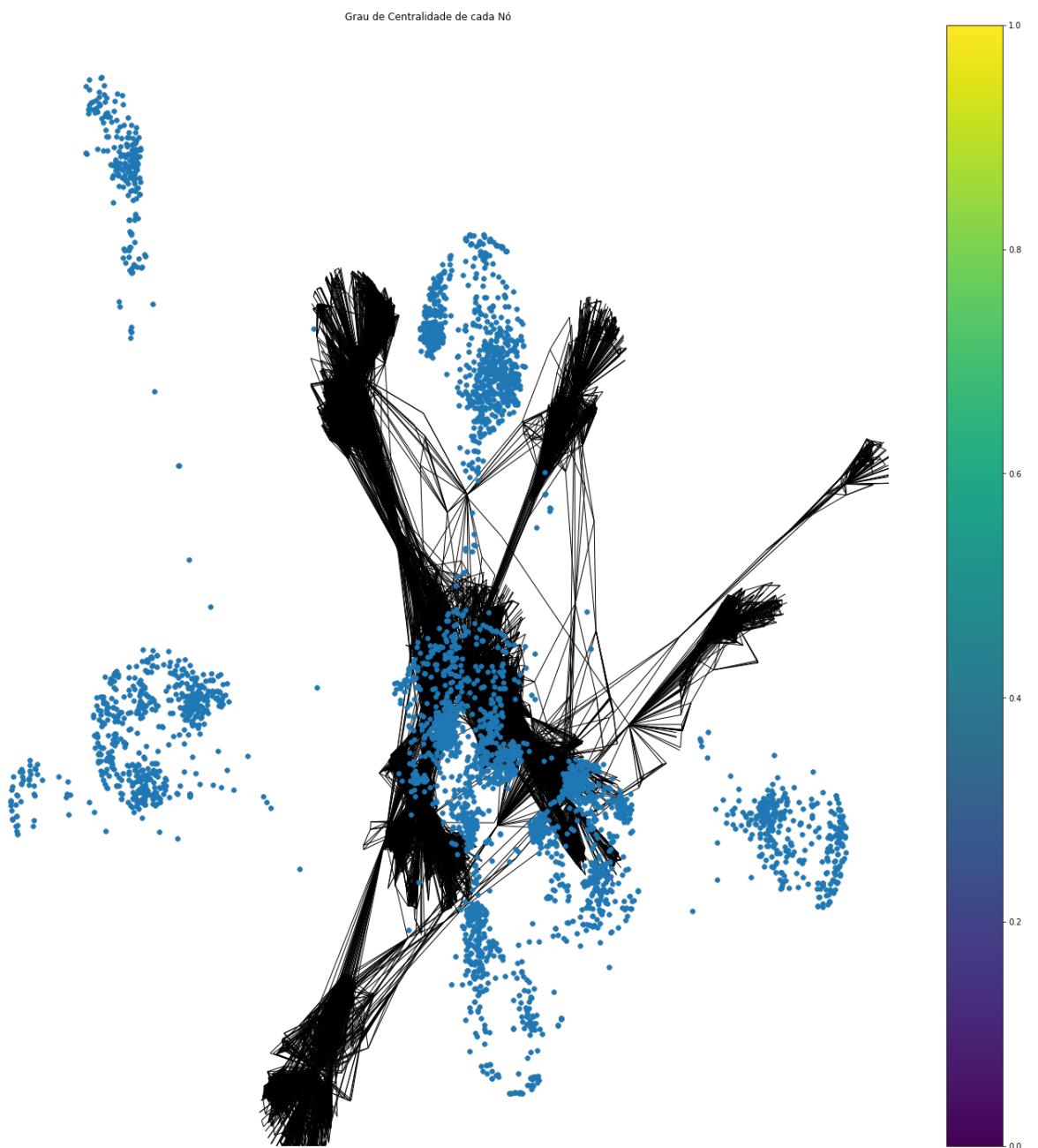
0 . 5414

Medida que indica a variabilidade dos graus de visibilidade individuais dos atores de uma rede social e é calculado através da métrica Grau de Centralidade do Grupo.

8.4. Grau de Centralidade de cada Nó (Centrality)

[Lista de Centralidade de cada Nó \(Centrality\)](#)

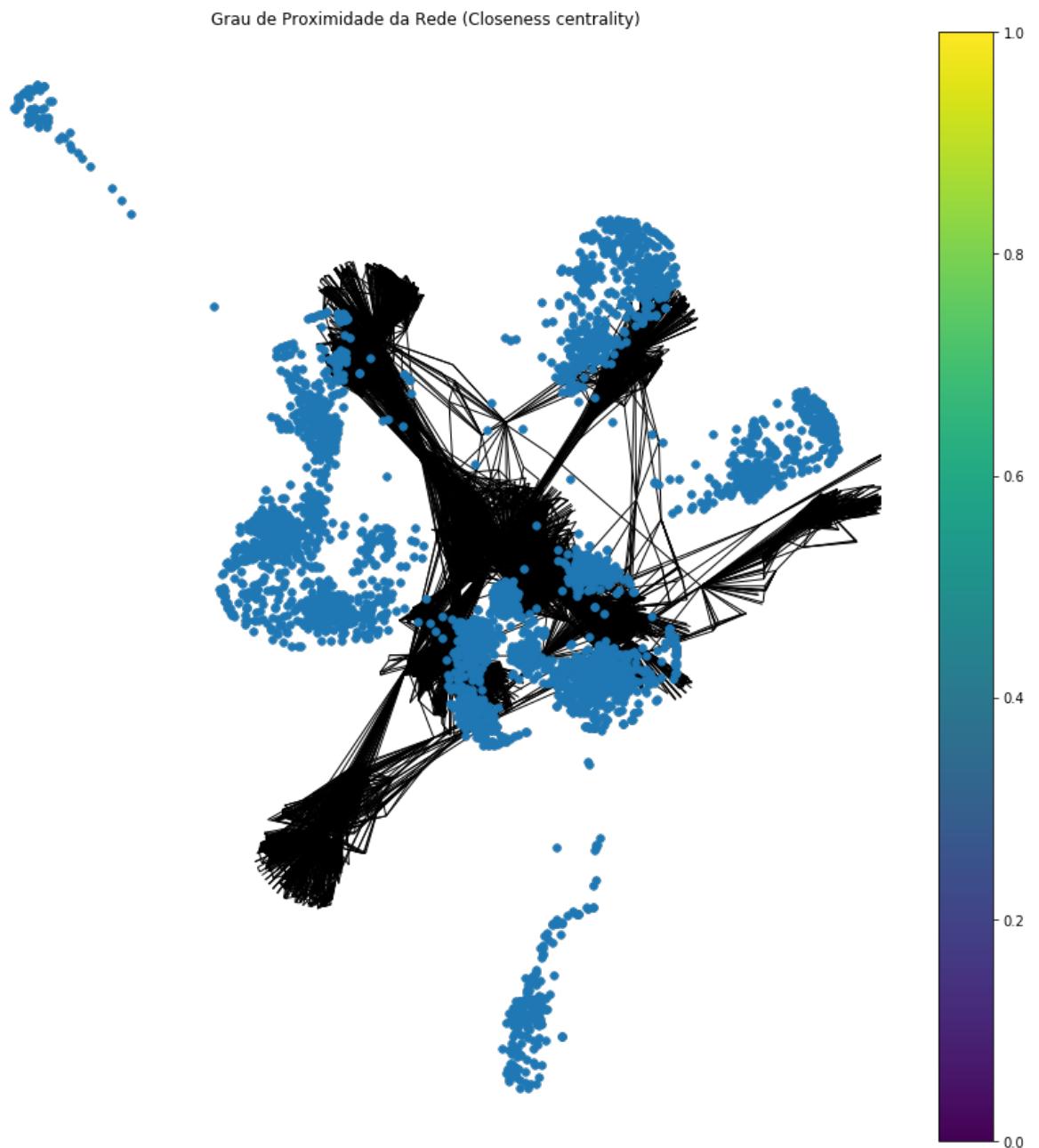
O grafo a seguir foi montando a partir do cálculo da centralidade de cada nó, que está disponível no link acima, em relação aos demais nós que compõem a rede. Conseguimos enxergar que se formaram grupos com graus semelhantes.



8.5. Grau de Proximidade da Rede (Closeness centrality)

[Lista do Grau de Proximidade da Rede \(Closeness centrality\)](#)

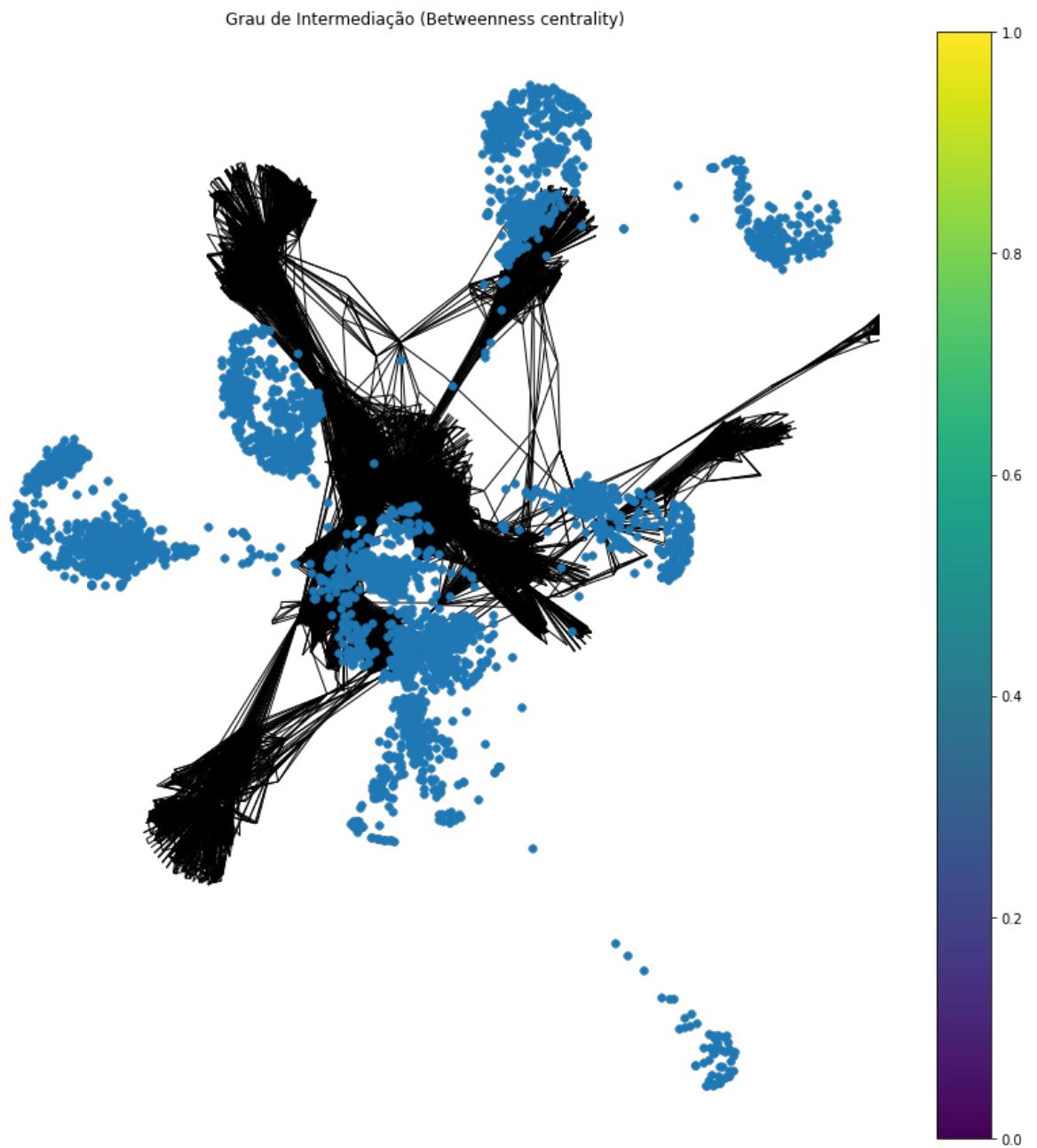
É o cálculo do comprimento médio de todos os caminhos mais curtos de um nó para todos os outros nós da rede. No gráfico pode-se concluir que os nós têm um baixíssimo grau de proximidade, boa parte em consequência do tamanho da rede e do número de nós envolvidos.



8.6. Grau de Intermediação (Betweenness centrality)

[Lista do Grau de Intermediação \(Betweenness centrality\)](#)

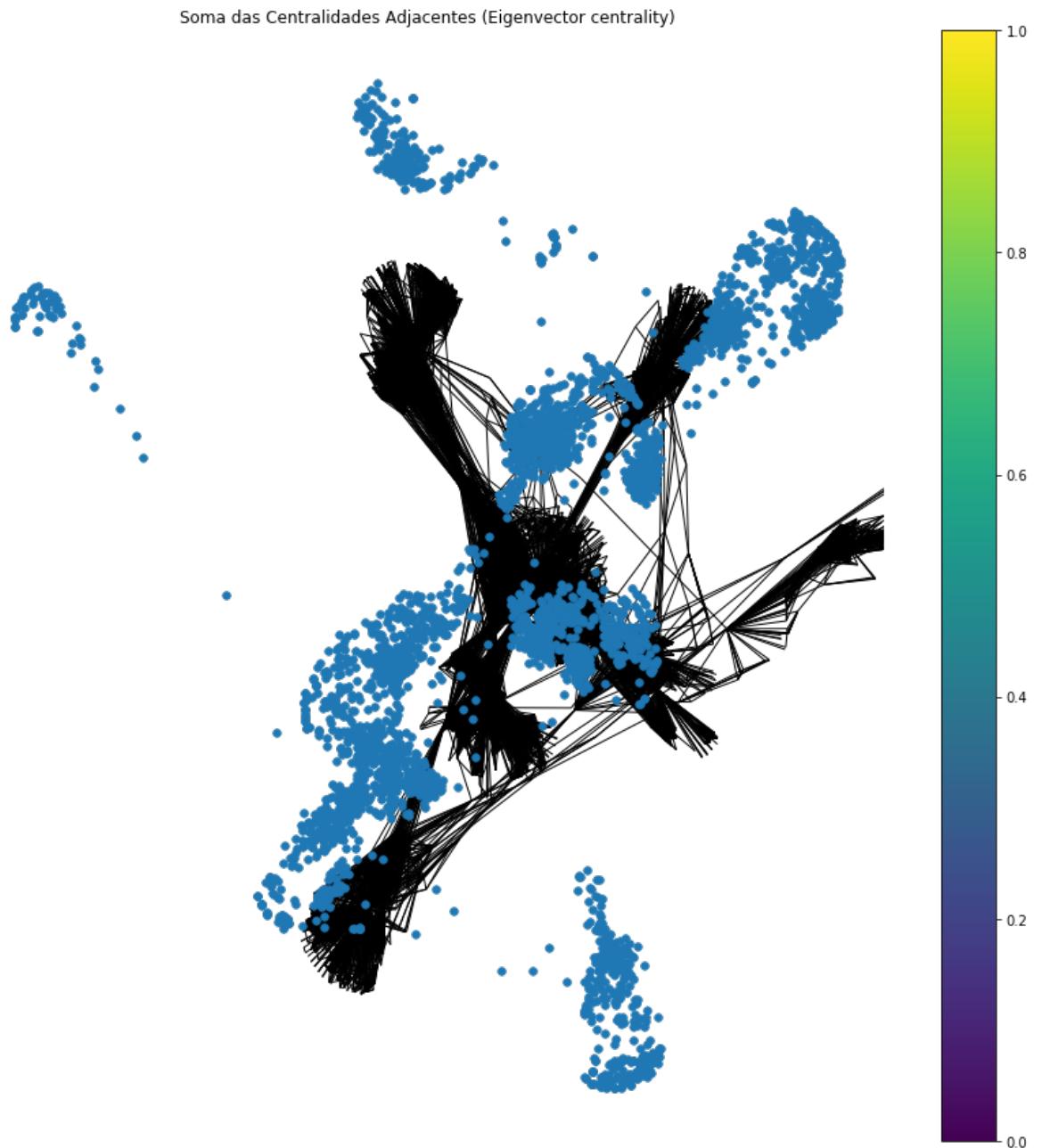
Essa métrica é calculada a partir dos números de caminhos mais curtos entre os nós i e j que passam por v e divido por todos os caminhos mais curtos entre os nós i e j.



8.7. Soma das Centralidades Adjacentes (Eigenvector centrality)

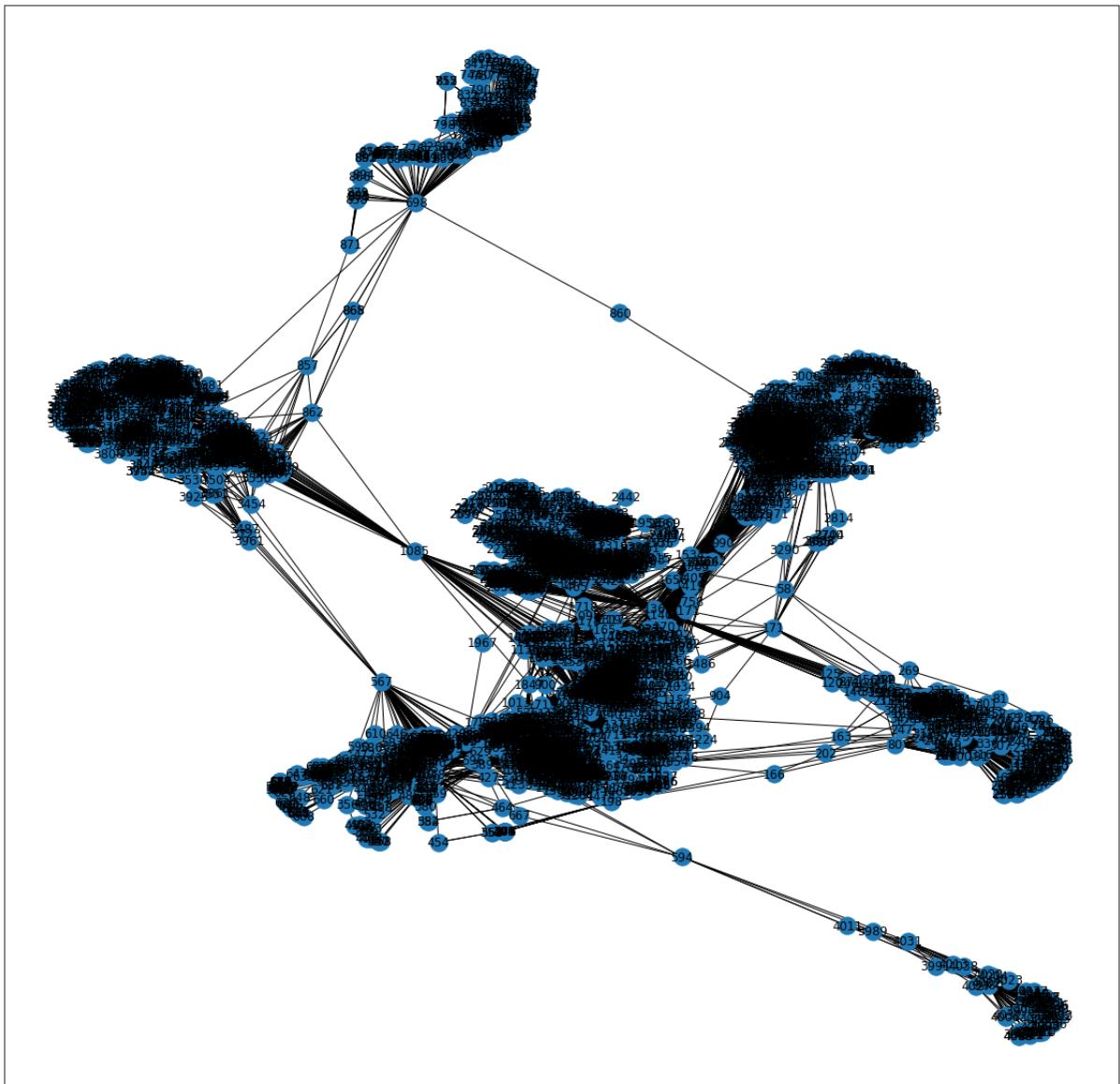
[Lista do Soma das Centralidades Adjacentes \(Eigenvector centrality\)](#)

O grau de Eigenvector determina o grau de influência do nós na rede.



8.8. Gráfico da Rede Social (SNA)

No grafo a seguir demonstra toda a representação dos nós na rede e suas relações.



9. Estudo de Caso 2 - Análise das curtidas de páginas no facebook de uma determinada pessoa

Para esse estudo de caso a ideia foi centralizar as conexões de vários nós em um nó centralizado e observar a mudança no comportamento das métricas. Foi utilizado um dataset montado a partir de dados curtidas do facebook disponível detalhados a seguir:

Link:

https://github.com/alyssonmessias/datasets/blob/master/facebook_alysson_likes.json

Nome Dataset: facebook_alysson_likes.json

Número de nós: 73

Número de arestas: 72

Grau médio: 1.9726

Link do código Fonte: <https://colab.research.google.com/drive/1IJ5dMewmG-ewrps2zPfNdTCvKjr3U9Pg>

9.1. Métricas da Atividade – Estudo de Caso 2

No estudo de caso 2 foi delimitada uma amostra de nós de uma determinada pessoa em relação as curtidas que foram feitas em relações as páginas do facebook.

9.2. Grau de Densidade da Rede (Density)

0.0273972602739726

Temos uma quantidade menor de nós, e como todos os nós têm uma relação central com um nó central a densidade é baixa.

9.3. Grau de Heterogeneidade (Centralidade do Grupo)

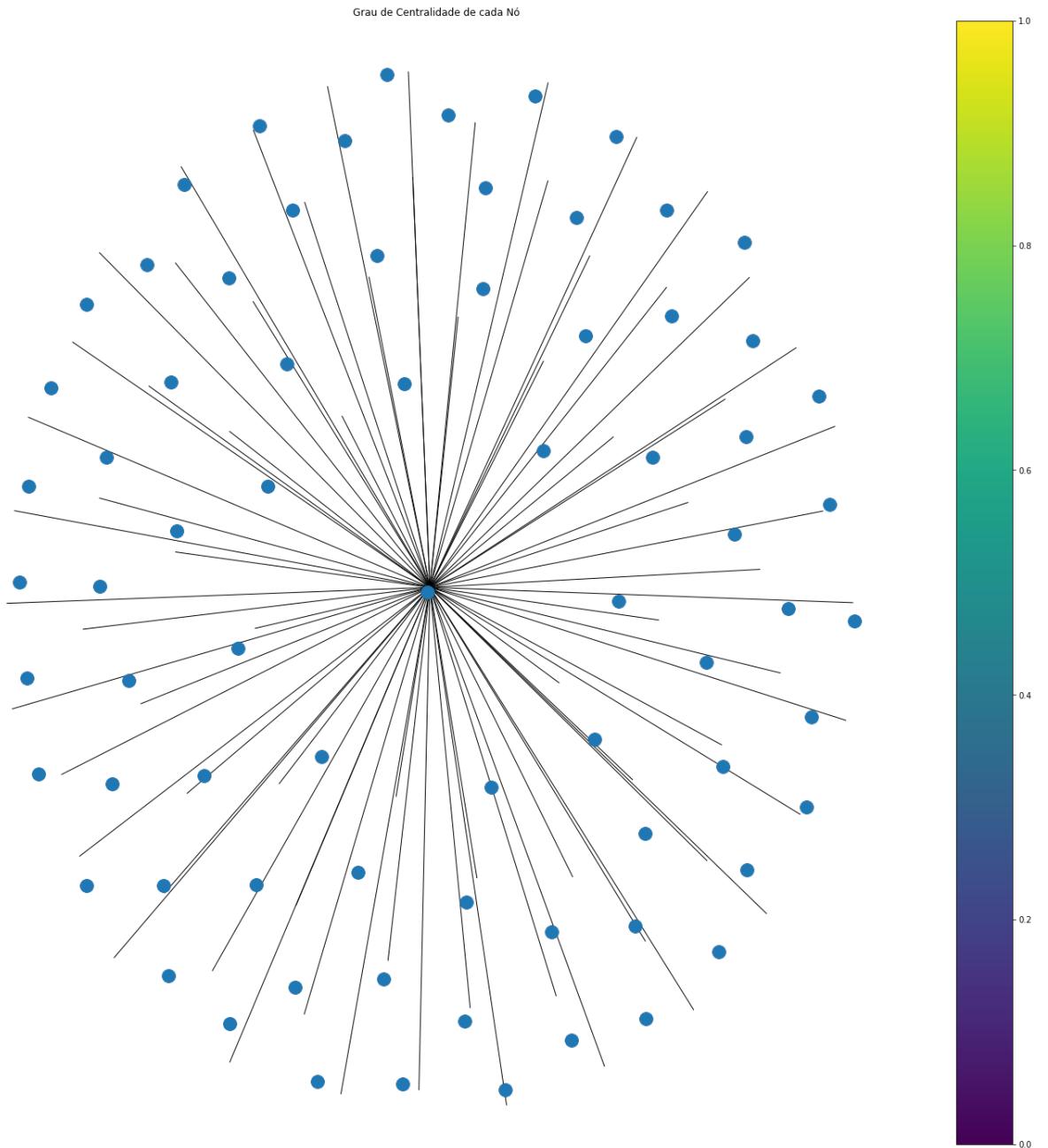
0.4863

O grau de Heterogeneidade foi mais baixo do que do estudo de caso 1, até pela dinâmica de relacionamento dos nós.

9.4. Grau de Centralidade de cada Nó (Centrality)

[Lista de Centralidade de cada Nó \(Centrality\)](#)

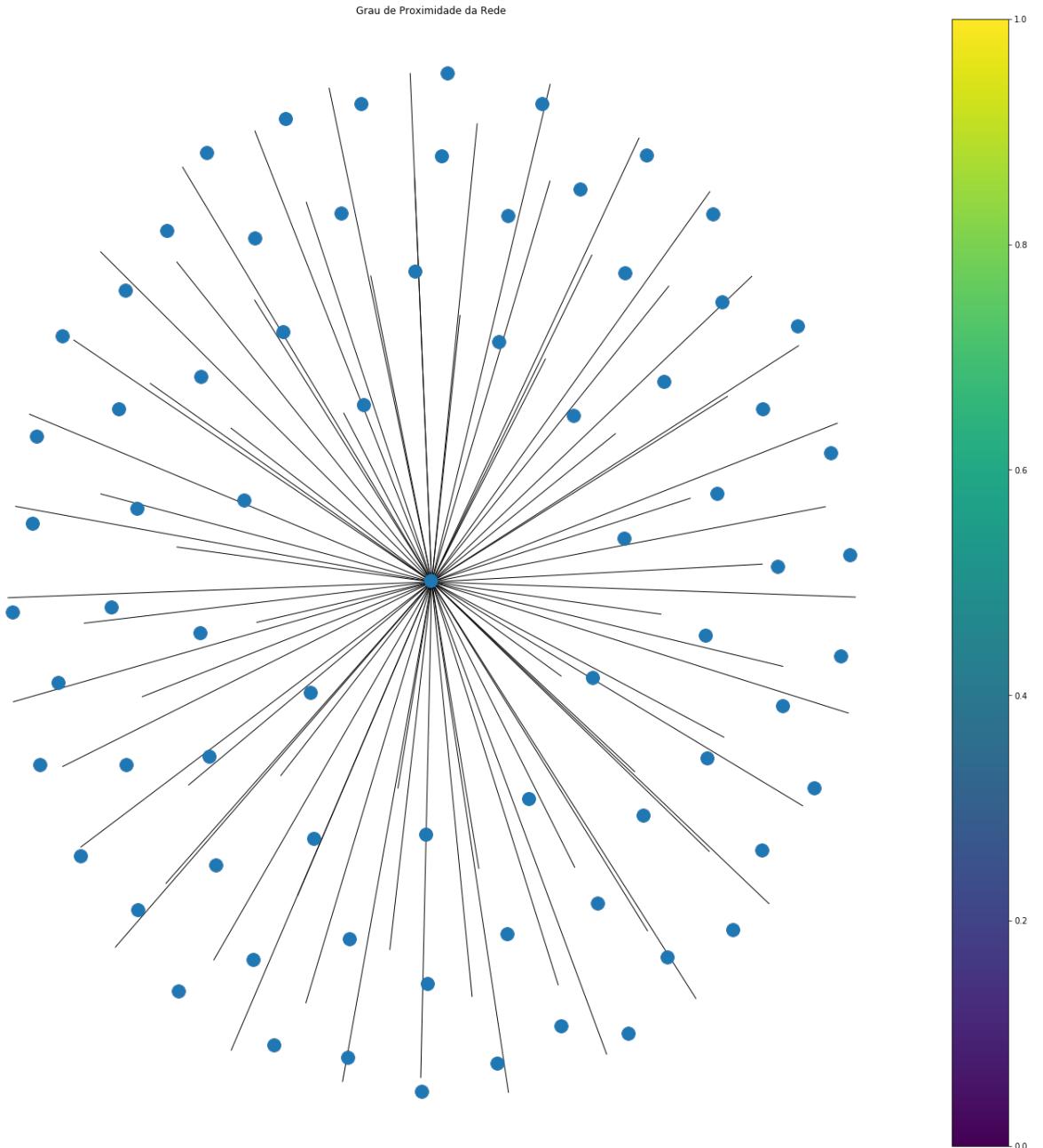
O grafo possui um grau de centralidade homogêneo entre todas as relações.



9.5. Grau de Proximidade da Rede (Closeness centrality)

[Lista do Grau de Proximidade da Rede \(Closeness centrality\)](#)

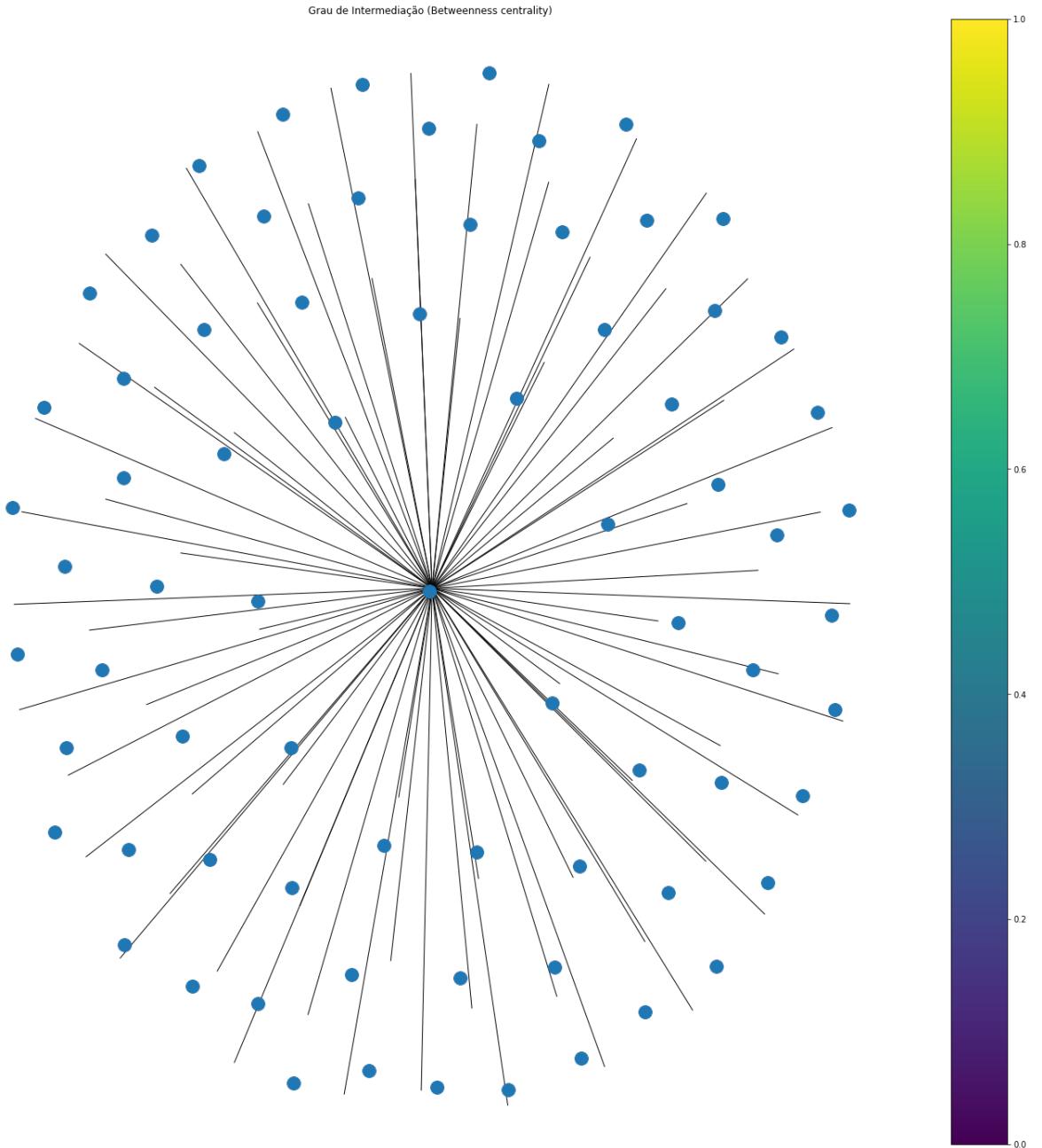
Todos os nós têm pelo menos um grau de 0.5 proximidade, já que todos têm uma relação com o nó central.



9.6. Grau de Intermediação (Betweenness centrality)

[Lista do Grau de Intermediação \(Betweenness centrality\)](#)

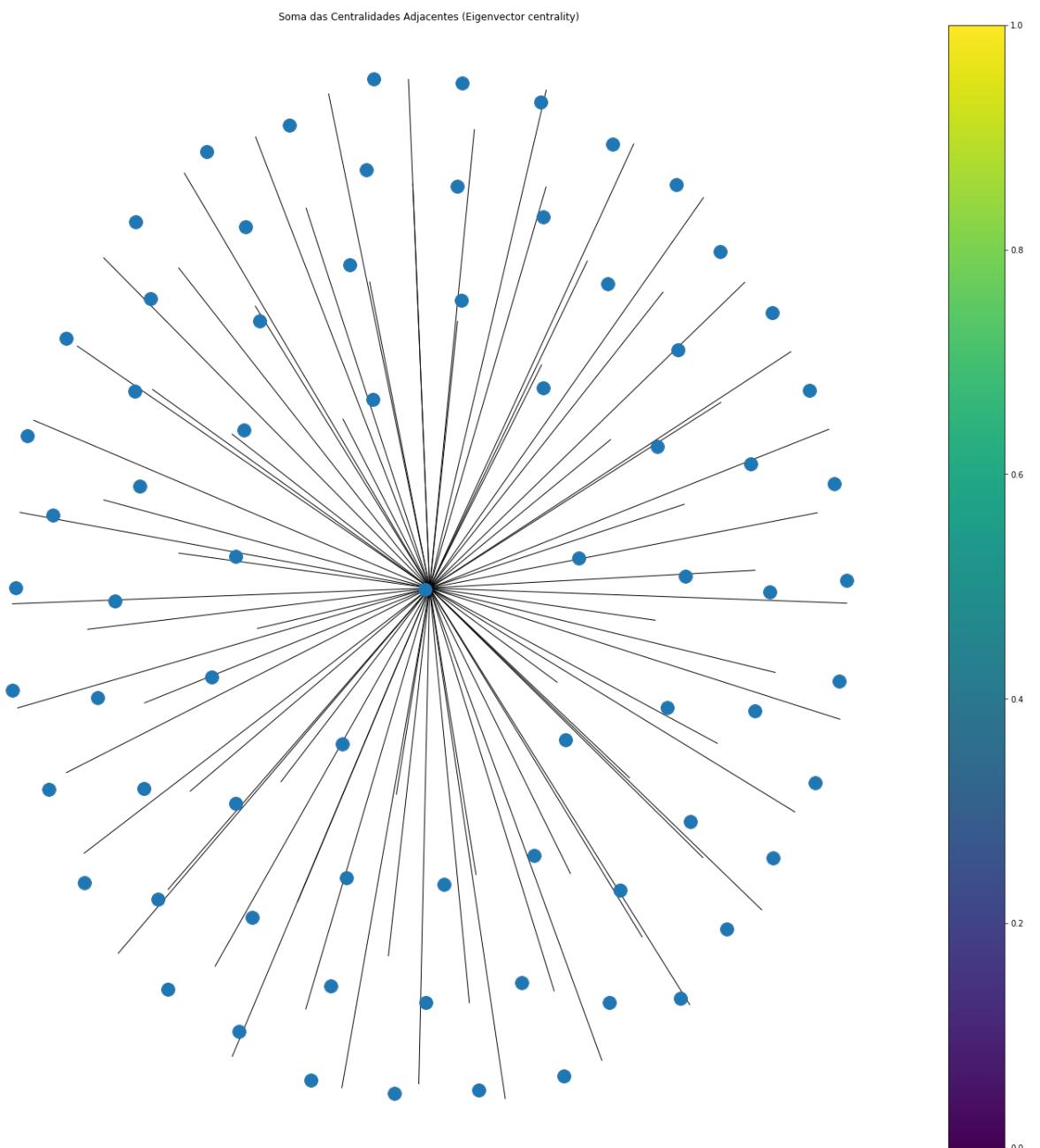
Para nó central o grau de intermediação é 1, porém para todos os demais é de 0. Uma característica de grafos ego.



9.7. Soma das Centralidades Adjacentes (Eigenvector centrality)

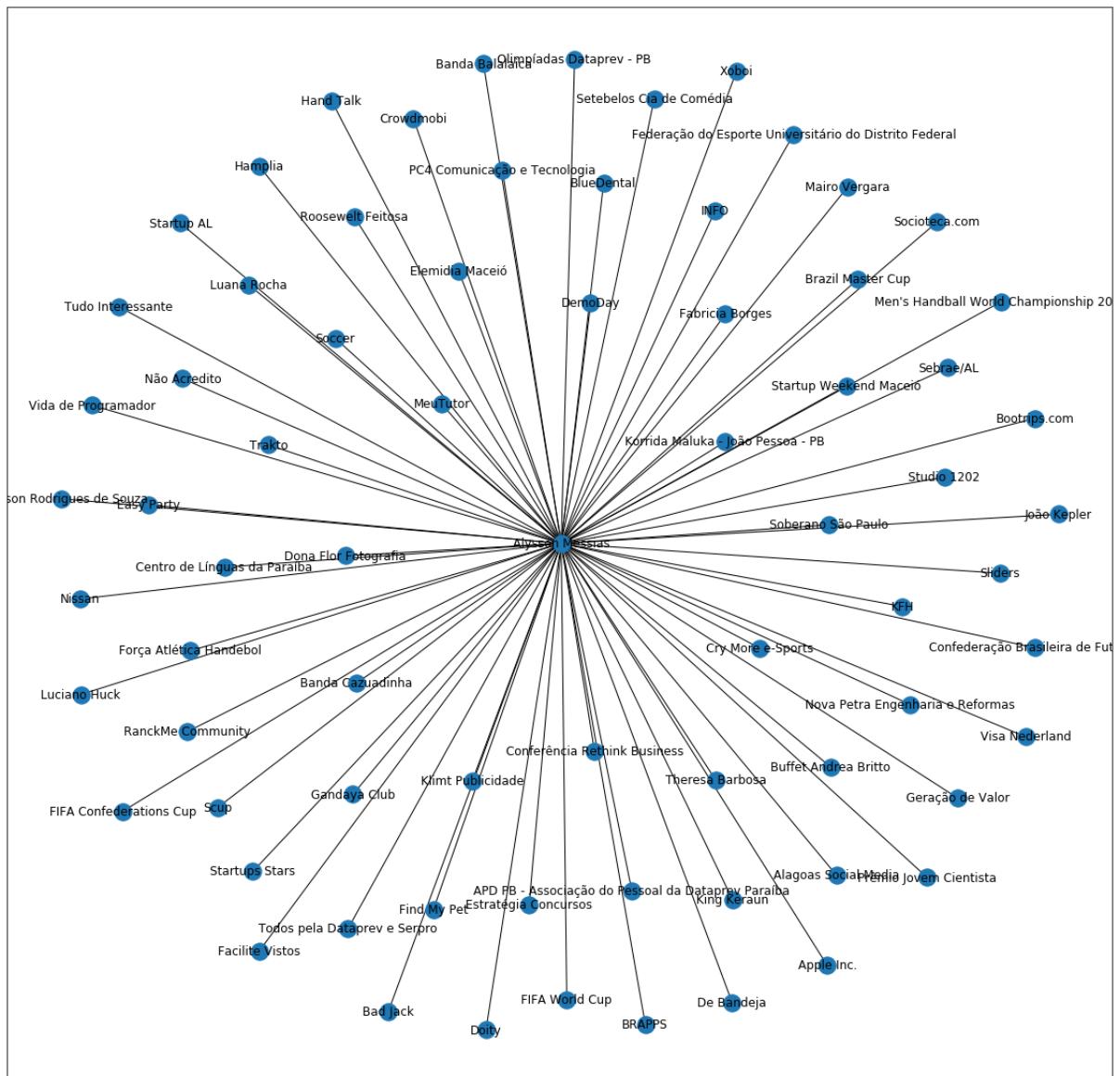
[Lista do Soma das Centralidades Adjacentes \(Eigenvector centrality\)](#)

O nó central é que detém o maior grau de influência sobre os demais.



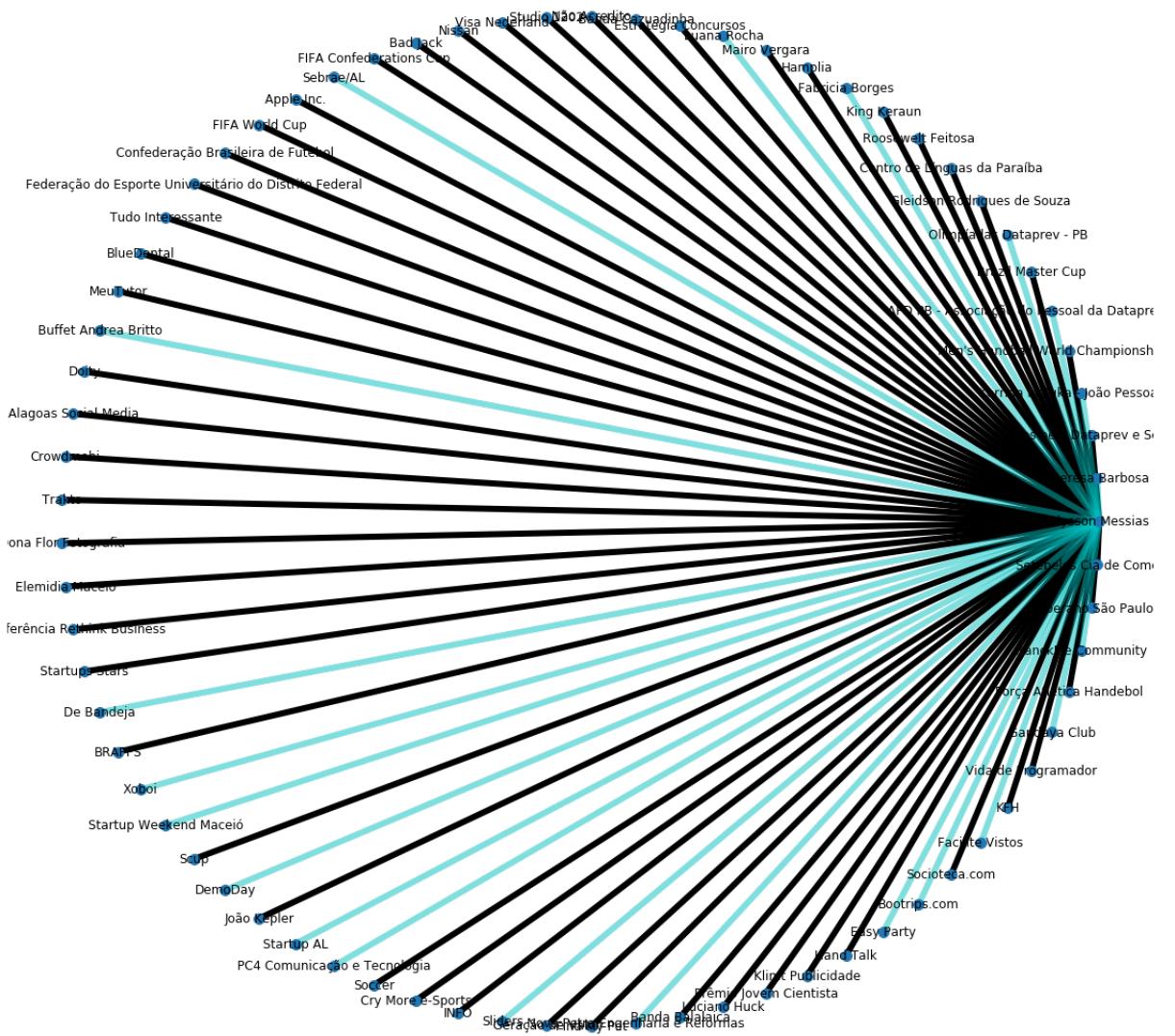
9.8. Grafo da Rede

Nesse grafo é possível ver os nomes das relações as páginas que foram curtidas.



9.9. Grafo da Rede por Peso (Weighted Networks)

Nesse grafo dá para ver de maneira mais clara as relações entre os nós e os nomes das páginas que compõem as relações.



10. Resultados e discussão

Nesse relatório foi demonstrado o uso de algoritmos de ARS e detalhado todo o arcabouço tecnológico para viabilizar o estudo de caso.

No Estudo de Caso 1 através dos grafos demonstrados, foi possível visualizar com maior clareza as relações entre os elementos, o Dataset desse estudo continha uma quantidade de relações bem maior do que o Estudo de Caso 2, que por sua vez tinha um universo de dados mais claro e perceptível para demonstrar outros tipos de grafos, como o de centralidade.

O estudo e análise das redes sociais oferece um suporte importante na percepção e mediação de elementos, pessoas ou qualquer coisa que tenha relações ativas e/ou descobrir relações entre objetos, os quais, nem se imagina que existam.

Além disso, esse trabalho pode ser o ponto de partida para diversas pesquisas que desejam estudar relações, descobrir tendências, criar modelos e identificar padrões comprovando de forma científica utilizando métodos e comprovações matemáticas.

11. Referências

- [1] BERKOWITZ, S. D. An introduction to structural analysis: The network approach to social research. [s.l.] Elsevier, 2013.
- [2] CAPRA, F. Conexões ocultas, as. [s.l.] Editora Cultrix, 2002.
- [3] DUARTE, A.; BRITO, A. V; MEDEIROS, F. P. A. Desenvolvimento de um Método para Utilização de Redes Sociais na Internet como Ferramentas de Apoio ao Ensino e Aprendizagem. Anais do Congresso da Sociedade Brasileira de Informática na Educação. Anais...2009
- [4] FELDMAN-BIANCO, B. Antropologia das sociedades contemporâneas: métodos. [s.l.] Global, 1987.
- [5] KNOKE, D.; YANG, S. Social network analysis. [s.l.] SAGE Publications, Incorporated, 2019. v. 154
- [6] MEDEIROS, F. P. A. DE. Uma abordagem de monitoramento abrangente das interações sociais em ambientes colaborativos virtuais de aprendizagem como suporte a presença docente. p. 205, 2013.

Apêndices - Dados Gerados nas Análises

Estudo de Caso 1

Lista de Centralidade de cada Nó (Centrality)

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Lista do Grau de Proximidade da Rede (Closeness centrality)

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Estudo de Caso 2

Lista de Centralidade de cada Nó (Centrality)

('Alysson Messias': 1.0, 'Theresa Barbosa': 0.01388888888888888888, 'Todos pela Dataprev e Serpro': 0.01388888888888888888, 'Korrida Maluka - João Pessoa - PB': 0.01388888888888888888, 'Men's Handball World Championship 2019': 0.01388888888888888888, 'APD PB - Associação do Pessoal da Dataprev Paraíba': 0.01388888888888888888, 'Brazil Master Cup': 0.01388888888888888888, 'Olimpiadas Dataprev - PB': 0.01388888888888888888, 'Gleidson Rodrigues de Souza': 0.01388888888888888888, 'Centro de Línguas da Paraíba': 0.01388888888888888888, 'Roosevelt Feitosa': 0.01388888888888888888, 'King Keraun': 0.01388888888888888888, 'Fabrícia Borges': 0.01388888888888888888, 'Hampia': 0.01388888888888888888, 'Mairo Vergara': 0.01388888888888888888, 'Luana Rocha': 0.01388888888888888888, 'Estratégia Concursos': 0.01388888888888888888, 'Banda Cazuadinho': 0.01388888888888888888, 'Não Acredito': 0.01388888888888888888, 'Studio 1202': 0.01388888888888888888, 'Visa Nederland': 0.01388888888888888888, 'Nissan': 0.01388888888888888888, 'Bad Jack': 0.01388888888888888888, 'FIFA Confederations Cup': 0.01388888888888888888, 'Sebrae/AL': 0.01388888888888888888, 'Apple Inc.': 0.01388888888888888888, 'FIFA World Cup': 0.01388888888888888888, 'Confederação Brasileira de Futebol': 0.01388888888888888888, 'Federação do Esporte Universitário do Distrito Federal': 0.01388888888888888888, 'Tudo Interessante': 0.01388888888888888888, 'BlueDental': 0.01388888888888888888, 'MeuTutor': 0.01388888888888888888, 'Buffet Andrea Britto': 0.01388888888888888888, 'Doity': 0.01388888888888888888, 'Alagoas Social Media': 0.01388888888888888888, 'Crowdmobi': 0.01388888888888888888, 'Trakto': 0.01388888888888888888, 'Dona Flor Fotografia': 0.01388888888888888888, 'Elemidia Maceió': 0.01388888888888888888, 'Conferência Rethink Business': 0.01388888888888888888, 'Startups Stars': 0.01388888888888888888, 'De Bandeja': 0.01388888888888888888, 'BRAPPS': 0.01388888888888888888, 'Xoboi': 0.01388888888888888888, 'Startup Weekend Maceió': 0.01388888888888888888, 'Scup': 0.01388888888888888888, 'DemoDay': 0.01388888888888888888, 'João Kepler': 0.01388888888888888888, 'Startup AL': 0.01388888888888888888, 'PC4 Comunicação e Tecnologia': 0.01388888888888888888, 'Soccer': 0.01388888888888888888, 'Cry More e-Sports': 0.01388888888888888888, 'INFO': 0.01388888888888888888, 'Sliders': 0.01388888888888888888, 'Geração de Valor': 0.01388888888888888888, 'Find My Pet': 0.01388888888888888888, 'Nova Petra Engenharia e Reformas': 0.01388888888888888888, 'Banda Balalaica': 0.01388888888888888888, 'Luciano Huck': 0.01388888888888888888, 'Prêmio Jovem Cientista': 0.01388888888888888888, 'Klmt Publicidade': 0.01388888888888888888, 'Hand Talk': 0.01388888888888888888, 'Easy Party': 0.01388888888888888888, 'Bootrips.com': 0.01388888888888888888, 'Socioteca.com': 0.01388888888888888888, 'Facilite Vistos': 0.01388888888888888888, 'KFH': 0.01388888888888888888, 'Vida de Programador': 0.01388888888888888888, 'Gandaya Club': 0.01388888888888888888, 'Força Atlética Handebol': 0.01388888888888888888, 'RanckMe Community': 0.01388888888888888888, 'Soberano São Paulo': 0.01388888888888888888, 'Setebelos Cia de Comédia': 0.01388888888888888888)

Lista do Grau de Proximidade da Rede (Closeness centrality)

('Alysson Messias': 1.0, 'Theresa Barbosa': 0.5034965034965035, 'Todos pela Dataprev e Serpro': 0.5034965034965035, 'Korrida Maluka - João Pessoa - PB': 0.5034965034965035, 'Men's Handball World Championship 2019': 0.5034965034965035, 'APD PB - Associação do Pessoal da Dataprev Paraíba': 0.5034965034965035, 'Brazil Master Cup': 0.5034965034965035, 'Olimpiadas Dataprev - PB': 0.5034965034965035, 'Gleidson Rodrigues de Souza': 0.5034965034965035, 'Centro de Línguas da Paraíba': 0.5034965034965035, 'King Keraun': 0.5034965034965035, 'Fabrícia Borges': 0.5034965034965035, 'Hampia': 0.5034965034965035, 'Mairo Vergara': 0.5034965034965035, 'Luana Rocha': 0.5034965034965035, 'Estratégia Concursos': 0.5034965034965035, 'Banda Cazuadinho': 0.5034965034965035, 'Não Acredito': 0.5034965034965035, 'Studio 1202': 0.5034965034965035, 'Visa Nederland': 0.5034965034965035, 'Nissan': 0.5034965034965035, 'Bad Jack': 0.5034965034965035, 'FIFA Confederations Cup': 0.5034965034965035, 'Sebrae/AL': 0.5034965034965035, 'Apple Inc.': 0.5034965034965035, 'FIFA World Cup': 0.5034965034965035, 'Confederação Brasileira de Futebol': 0.5034965034965035, 'Federação do Esporte Universitário do Distrito Federal': 0.5034965034965035, 'Tudo Interessante': 0.5034965034965035, 'BlueDental': 0.5034965034965035, 'MeuTutor': 0.5034965034965035, 'Buffet Andrea Britto': 0.5034965034965035, 'Doity': 0.5034965034965035, 'Alagoas Social Media': 0.5034965034965035, 'Crowdmobi': 0.5034965034965035, 'Trakto': 0.5034965034965035, 'Dona Flor Fotografia': 0.5034965034965035, 'Elemidia Maceió': 0.5034965034965035, 'Conferência Rethink Business': 0.5034965034965035, 'Startups Stars': 0.5034965034965035, 'De Bandeja': 0.5034965034965035, 'BRAPPS': 0.5034965034965035, 'Xoboi': 0.5034965034965035, 'Startup Weekend Maceió': 0.5034965034965035, 'Scup': 0.5034965034965035, 'DemoDay': 0.5034965034965035, 'João Kepler': 0.5034965034965035, 'Startup AL': 0.5034965034965035, 'PC4 Comunicação e Tecnologia': 0.5034965034965035, 'Soccer': 0.5034965034965035, 'Cry More e-Sports': 0.5034965034965035, 'INFO': 0.5034965034965035, 'Sliders': 0.5034965034965035, 'Geração de Valor': 0.5034965034965035, 'Find My Pet': 0.5034965034965035, 'Nova Petra Engenharia e Reformas': 0.5034965034965035, 'Banda Balalaica': 0.5034965034965035, 'Luciano Huck': 0.5034965034965035, 'Prêmio Jovem Cientista': 0.5034965034965035, 'Klmt Publicidade': 0.5034965034965035, 'Hand Talk': 0.5034965034965035, 'Easy Party': 0.5034965034965035, 'Bootrips.com': 0.5034965034965035, 'Socioteca.com': 0.5034965034965035, 'Facilite Vistos': 0.5034965034965035, 'KFH': 0.5034965034965035, 'Vida de Programador': 0.5034965034965035, 'Gandaya Club': 0.5034965034965035, 'Força Atlética Handebol': 0.5034965034965035, 'RanckMe Community': 0.5034965034965035, 'Soberano São Paulo': 0.5034965034965035, 'Setebelos Cia de Comédia': 0.5034965034965035)

Lista de Grau de Intermediação (Betweenness centrality)

('Alysson Messias': 1.0, 'Theresa Barbosa': 0.0, 'Todos pela Dataprev e Serpro': 0.0, 'Korrida Maluka - João Pessoa - PB': 0.0, 'Men's Handball World Championship 2019': 0.0, 'APD PB - Associação do Pessoal da Dataprev Paraíba': 0.0,

'Brazil Master Cup': 0.0, 'Olimpiadas Dataprev - PB': 0.0, 'Gleidson Rodrigues de Souza': 0.0, 'Centro de Línguas da Paraíba': 0.0, 'Roosevelt Feitosa': 0.0, 'King Keraun': 0.0, 'Fabricia Borges': 0.0, 'Hamplia': 0.0, 'Mairo Vergara': 0.0, 'Luana Rocha': 0.0, 'Estratégia Concursos': 0.0, 'Banda Cazuadinha': 0.0, 'Não Acredito': 0.0, 'Studio 1202': 0.0, 'Visa Nederland': 0.0, 'Nissan': 0.0, 'Bad Jack': 0.0, 'FIFA Confederations Cup': 0.0, 'Sebrae/AL': 0.0, 'Apple Inc.': 0.0, 'FIFA World Cup': 0.0, 'Confederação Brasileira de Futebol': 0.0, 'Federação do Esporte Universitário do Distrito Federal': 0.0, 'Tudo Interessante': 0.0, 'BlueDental': 0.0, 'MeuTutor': 0.0, 'Buffet Andrea Britto': 0.0, 'Doity': 0.0, 'Alagoas Social Media': 0.0, 'Crowdmobi': 0.0, 'Trakto': 0.0, 'Dona Flor Fotografia': 0.0, 'Elemidia Maceió': 0.0, 'Conferência Rethink Business': 0.0, 'Startups Stars': 0.0, 'De Bandeja': 0.0, 'BRAPPS': 0.0, 'Xoboi': 0.0, 'Startup Weekend Maceió': 0.0, 'Scup': 0.0, 'DemoDay': 0.0, 'João Kepler': 0.0, 'Startup AL': 0.0, 'PC4 Comunicação e Tecnologia': 0.0, 'Soccer': 0.0, 'Cry More e-Sports': 0.0, 'INFO': 0.0, 'Sliders': 0.0, 'Geração de Valor': 0.0, 'Find My Pet': 0.0, 'Nova Petrópolis Engenharia e Reformas': 0.0, 'Banda Balalaica': 0.0, 'Luciano Huck': 0.0, 'Prêmio Jovem Cientista': 0.0, 'Klimt Publicidade': 0.0, 'Hand Talk': 0.0, 'Easy Party': 0.0, 'Bootrips.com': 0.0, 'Socioteca.com': 0.0, 'Facilite Vistos': 0.0, 'KFH': 0.0, 'Vida de Programador': 0.0, 'Gandaya Club': 0.0, 'Força Atlética Handebol': 0.0, 'RanckMe Community': 0.0, 'Soberano São Paulo': 0.0, 'Setebelos Cia de Comédia': 0.0}

Lista da Soma das Centralidades Adjacentes (Eigenvector centrality)

{'Alysson Messias': 0.7071099558335419, 'Theresa Barbosa': 0.08333295919591714, 'Todos pela Dataprev e Serpro': 0.08333295919591714, 'Korrida Maluka - João Pessoa - PB': 0.08333295919591714, 'Men's Handball World Championship 2019': 0.08333295919591714, 'APD PB - Associação do Pessoal da Dataprev Paraíba': 0.08333295919591714, 'Brazil Master Cup': 0.08333295919591714, 'Olimpiadas Dataprev - PB': 0.08333295919591714, 'Gleidson Rodrigues de Souza': 0.08333295919591714, 'Centro de Línguas da Paraíba': 0.08333295919591714, 'Roosevelt Feitosa': 0.08333295919591714, 'King Keraun': 0.08333295919591714, 'Fabricia Borges': 0.08333295919591714, 'Hamplia': 0.08333295919591714, 'Mairo Vergara': 0.08333295919591714, 'Luana Rocha': 0.08333295919591714, 'Estratégia Concursos': 0.08333295919591714, 'Banda Cazuadinha': 0.08333295919591714, 'Não Acredito': 0.08333295919591714, 'Studio 1202': 0.08333295919591714, 'Visa Nederland': 0.08333295919591714, 'Nissan': 0.08333295919591714, 'Bad Jack': 0.08333295919591714, 'FIFA Confederations Cup': 0.08333295919591714, 'Sebrae/AL': 0.08333295919591714, 'Apple Inc.': 0.08333295919591714, 'FIFA World Cup': 0.08333295919591714, 'Confederação Brasileira de Futebol': 0.08333295919591714, 'Federação do Esporte Universitário do Distrito Federal': 0.08333295919591714, 'Tudo Interessante': 0.08333295919591714, 'BlueDental': 0.08333295919591714, 'MeuTutor': 0.08333295919591714, 'Buffet Andrea Britto': 0.08333295919591714, 'Doity': 0.08333295919591714, 'Alagoas Social Media': 0.08333295919591714, 'Crowdmobi': 0.08333295919591714, 'Trakto': 0.08333295919591714, 'Dona Flor Fotografia': 0.08333295919591714, 'Elemidia Maceió': 0.08333295919591714, 'Conferência Rethink Business': 0.08333295919591714, 'Startups Stars': 0.08333295919591714, 'De Bandeja': 0.08333295919591714, 'BRAPPS': 0.08333295919591714, 'Xoboi': 0.08333295919591714, 'Startup Weekend Maceió': 0.08333295919591714, 'Scup': 0.08333295919591714, 'DemoDay': 0.08333295919591714, 'João Kepler': 0.08333295919591714, 'Startup AL': 0.08333295919591714, 'PC4 Comunicação e Tecnologia': 0.08333295919591714, 'Soccer': 0.08333295919591714, 'Cry More e-Sports': 0.08333295919591714, 'INFO': 0.08333295919591714, 'Sliders': 0.08333295919591714, 'Geração de Valor': 0.08333295919591714, 'Find My Pet': 0.08333295919591714, 'Nova Petrópolis Engenharia e Reformas': 0.08333295919591714, 'Banda Balalaica': 0.08333295919591714, 'Luciano Huck': 0.08333295919591714, 'Prêmio Jovem Cientista': 0.08333295919591714, 'Klimt Publicidade': 0.08333295919591714, 'Hand Talk': 0.08333295919591714, 'Easy Party': 0.08333295919591714, 'Bootrips.com': 0.08333295919591714, 'Socioteca.com': 0.08333295919591714, 'Facilite Vistos': 0.08333295919591714, 'KFH': 0.08333295919591714, 'Vida de Programador': 0.08333295919591714, 'Gandaya Club': 0.08333295919591714, 'Força Atlética Handebol': 0.08333295919591714, 'RanckMe Community': 0.08333295919591714, 'Soberano São Paulo': 0.08333295919591714, 'Setebelos Cia de Comédia': 0.08333295919591714}