

Edge Centrality Via The Holevo Quantity Aston University

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Edge Centrality Via The Holevo

When ranking the edges of a graph G , the scaling factor $\frac{1}{(m-1)m}$ is constant for all the edges and thus can be safely ignored. The Holevo edge centrality of an edge e is then a measure of the difference in Von Neumann entropy between the original graph and the graph where e has been removed. In other words, it can be seen as a measure of the contribution of e to the Von Neumann entropy of G .

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Edge Centrality via the Holevo Quantity 5 (a) Exact (b) Approximated Fig.1. The Holevo edge centrality and its quadratic approximation on a barbell graph. Here the edge thickness is proportional to the value of the centrality. In (a) the blue edges have a higher centrality than the red edges, but in (b) all these edges (blue) have

Edge Centrality via the Holevo Quantity

In this paper, we propose a novel vertex centrality measure based on the quantum information theoretical concept of Holevo quantity. More specifically, we measure the importance of a vertex in terms of the variation in graph entropy before and after its removal from the graph.

Measuring Vertex Centrality Using the Holevo Quantity ...

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Zero edge weights can produce an infinite number of equal length paths between pairs of nodes. The normalization might seem a little strange but it is the same as in `edge_betweenness_centrality()` and is designed to make `edge_betweenness_centrality(G)` be the same as `edge_betweenness_centrality_subset(G.sources=G.nodes(),targets=G.nodes())`.

networkx.algorithms.centrality.edge_betweenness_centrality ...

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EdgeBetweennessCentrality returns a list of positive machine numbers ("edge betweenness centralities") that approximate particular centrality measures of the edges of a graph. For graphs on one or more edges, edge betweenness centralities lie between and inclusive. Edge betweenness centrality is a measure of centrality of an edge in a network based on the number of shortest paths that pass ...

EdgeBetweennessCentrality—Wolfram Language Documentation

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Recent work indicates that there are further benefits from accounting multiple nodes. Building on these ideas, we motivate, define and analyze a class of spectral centrality measures for identifying important nodes and hyperedges in hypergraphs, generalizing existing network science ...

[2101.06215] Node and Edge Eigenvector Centrality for ...

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`betweenness_centrality¶` `betweenness_centrality(G, k=None, normalized=True, weight=None, endpoints=False, seed=None)¶`. Compute the shortest-path betweenness centrality for nodes. Betweenness centrality of a node v is the sum of the fraction of all-pairs shortest paths that pass through v :

betweenness_centrality — NetworkX 1.9 documentation

Degree centrality is the simplest centrality measure to compute. Recall that a node's degree is simply a count of how many social connections (i.e., edges) it has. The degree centrality for a node is simply its degree. A node with 10 social connections would have a degree centrality of 10. A node with 1 edge would have a degree centrality of 1.

Degree Centrality - an overview | ScienceDirect Topics

Katz centrality [24], rumor centrality [37] are some of the important centrality measures. Boldi and Vigna proposed an axiomatic study of centrality measures [7]. In general, choosing a good centrality measure is application depen-dent [19]. In the following we discuss in further detail the centrality measure of our focus, the betweenness ...

Scalable Betweenness Centrality Maximization via Sampling

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The amount of flow handled by a node or an edge is a measure of its betweenness centrality. Betweenness centrality of C with respect to (A,G) if each node sends 1 unit of flow to every other node ...

Centrality in Graph Theory. One of the key points of Graph ...

In graph theory, betweenness centrality is a measure of centrality in a graph based on shortest paths. For every pair of vertices in a connected graph, there exists at least one shortest path between the vertices such that either the number of edges that the path passes through (for unweighted graphs) or the sum of the weights of the edges (for weighted graphs) is minimized.

Betweenness Centrality (Centrality Measure) - GeeksforGeeks

A Divide-and-Conquer Algorithm for Betweenness Centrality D ora Erd)os yVatche Ishakianz Azer Bestavros Evimaria Terzi y January 26, 2015 Abstract Given a set of target nodes S in a graph G we de ne the betweenness centrality of a node v with respect to S as the fraction of shortest paths among nodes in S that contain v . For this setting we describe

A Divide-and-Conquer Algorithm for Betweenness Centrality

The betweenness centrality captures how much a given node (thereby denoted u) is in-between others.This metric is measured with the number of shortest paths (between any couple of nodes in the graphs) that passes through the target node u (denoted as v,w (u)).This score is moderated by the total number of shortest paths existing between any couple of nodes of the graph (denoted as v,w).