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A related problem is that of measuring the centrality of an edge. In this paper, we propose a novel edge centrality index rooted in quantum information. More specifically, we measure the importance of an edge in terms of the contribution that it gives to the Von Neumann entropy of the graph.

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The Holevo edge centrality of an edge e is then a measure of the di↵erence in Von Neumann entropy between the original graph and the graph where e has been removed.

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In this paper, we propose a novel edge centrality index rooted in quantum information. More specifically, we measure the importance of an edge in terms of the contribution that it gives to the Von Neumann entropy of the graph. We show that this can be computed in terms of the Holevo quantity, a well known quantum information theoretical measure.

Edge centrality via the Holevo quantity - CORE
Edge centrality via the Holevo quantity . By Joshua Lockhart, Giorgia Minello, Luca Rossi, Simone Severini and Andrea Torsello. Abstract. In the study of complex networks, vertex centrality measures are used to identify the most important vertices within a graph. A related problem is that of measuring the centrality of an edge.

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Measuring Vertex Centrality Using the Holevo Quantity. Abstract. In recent years, the increasing availability of data describing the dynamics of real-world systems led to a surge of interest in the complex networks of interactions that emerge from such systems.

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J. Lockhart, G. Minello, L. Rossi, S. Severini and A. Torsello, Edge Centrality via the Holevo Quantity, in Joint IAPR International Workshops on Structural and Syntactic Pattern Recognition and Statistical Techniques in Pattern Recognition .

Luca Rossi - Assistant Professor in Computer Science @ SUSTech
Thus, Ava and Ethan have high betweenness centrality. In contrast, Dmitri and others on the edge of the network have a betweenness centrality of 0. Even Gabe, who has a degree of 5 and is in the center of the graph, has a relatively low betweenness centrality (6.5) because so many of his edges connect people who are already connected through others.

Betweenness Centrality - an overview | ScienceDirect Topics
Social Network, Centrality, Sampling, Optimization 1. INTRODUCTION Betweenness centrality (BWC) is a fundamental measure in network analysis, measuring the effectiveness of a ver-tex in connecting pairs of vertices via shortest paths [16]. Numerous graph mining applications rely on betweenness centrality, such as detecting communities in social and bio-

Scalable Betweenness Centrality Maximization via Sampling
Betweenness centrality of an edge is the sum of the fraction of all-pairs shortest paths that pass through.

Edge Centrality） - 知乎
Centrality measures usually describe the network positions of vertices, but they can be calculated for edges as well. Most widely applied is a medial measure, edge betweenness, that identifies edges that are most crucial to maintaining a network's connectivity.

Centrality Measure - an overview | ScienceDirect Topics
Global centrality measures, on the other hand, take into account the whole of the network. One of the most widely used global centrality measures is closeness centrality. This measure scores each node based on their closeness to all other nodes within the network.

R Network Analysis: Centrality Measures - DataCamp
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Betweenness centrality of a node is the sum of the fraction of all-pairs shortest paths that pass through : where is the set of nodes, is the number of shortest -paths, and is the number of those paths passing through some node other than . ... edge_betweenness_centrality(), load_centrality() Notes.

betweenness_centrality — NetworkX 1.10 documentation

The betweenness centrality of a graph is defined as where is the largest value of for any vertex in the given graph and is the maximum possible sum of differences in centrality for any graph of vertices which occur in star with the value times of the central vertex, that is, .

Betweenness Centrality in Some Classes of Graphs

Edge centrality via the Holevo quantity J Lockhart, G Minello, L Rossi, S Severini, A Torsello Joint IAPR International Workshops on Statistical Techniques in Pattern … , 2016

Joshua Lockhart - Google Scholar Citations

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 ...

EdgeBetweennessCentrality—Wolfram Language Documentation

Centrality. Centrality is an important concept when analyzing network graph. The centrality of a node / edge measures how central (or important) is a node or edge in the network. We consider an entity important, if he has connections to many other entities. Centrality describes the number of edges that are connected to nodes.

Network Analysis and Manipulation using R - Articles - STHDA

Social network analysis measures are a vital tool for understanding networks, often also known as graphs.. These algorithms use graph theory to calculate the importance of any given node in a network. They cut through noisy data, revealing parts of the network that need attention – but they all work differently.