

Edge Centrality Via The Holevo Quantity Aston University

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Edge Centrality Via The Holevo Definition 1. For a graph $G = (V, E)$, the Holevo edge centrality of $e \in E$ is $HC(e) = \frac{m_1}{m} \ln \frac{m}{m_1}$ (9) When ranking the edges of a graph G , the scaling factor $(m_1)/m$ 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 Edge Centrality via the Holevo Quantity 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

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v is disconnected from the rest of the graph. Finally, we evaluate our centrality measure on a number of real-world as well as synthetic ...

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