ACN - Analysis of Citation Networks

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Job description: Quality of scientific publications and performance of scientists is often quantified with citation analysis, namely, devising metrics based on what paper cites what. However, not all citations are equal. Some citations may be due to papers containing really fundamental ideas, while others may be done for a minor reason, for completeness, or even for politics among the scientists. This project seeks to develop methods that explore in detail the distinction between different types of citations. There are two parts. The first is to classify citations according to their type. The second part is to devise new citation-based metrics that take into account the types of citations classified in the first part. The project requires good implementation skills.