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The assessment of a document's merit can be approached through various algorithms, each with unique methodologies and applications. The three primary algorithms proposed by Shrinivaasan are designed to objectively evaluate document quality, moving beyond traditional prestige-based models. These algorithms include the Citation Graph Maxflow, Recursive Gloss Overlap based intrinsic merit scoring, and the Interview algorithm, each serving distinct purposes in document evaluation.

Citation Graph Maxflow
- This algorithm utilizes citation networks to assess the flow of information and influence among documents.
- It quantifies the merit based on the connectivity and citation patterns, allowing for a more nuanced understanding of a document's impact.

Recursive Gloss Overlap
- This method focuses on the intrinsic merit of a document by analyzing the overlap of glossaries or key terms.
- It provides a scoring mechanism that reflects the relevance and depth of content, which is particularly useful in academic contexts.

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1. Few Algorithms for ascertaining merit of a document and their applications

Ka. Shrinivaasan

23 Jun 2010 • arXiv: Information Retrieval

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The paper proposes three algorithms for assessing document merit: Citation graph maxflow, Recursive Gloss Overlap based intrinsic merit scoring, and the Interview algorithm, along with a discussion on generic judgment and its mathematical treatment to motivate these algorithms.

+ Conclusions

+ Summarized Abstrac

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10.48550/arxiv.1006.4458

2. Few Algorithms for Ascertaining Merit of a Document and Their Applications

Ka. Shrinivaasan

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The paper proposes three algorithms for assessing document merit: Citation graph maxflow, Recursive Gloss Overlap based intrinsic merit scoring, and the Interview algorithm. These methods aim to provide objective evaluations, contrasting with traditional prestige-based ranking models.

+ Methods Used

+ Literature Survey

+ Limitations

+ Contributions

+ Practical Implication

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Algorithms for ascertaining document merit include cosine similarity, word mover's distance (WMD), and Siamese LSTM. Applications encompass plagiarism detection, text summarization, and semantic equivalence assessment, enhancing natural language processing tasks across various domains.

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Related Questions:

- What are the key methodologies used in the Citation Graph Maxflow algorithm for document merit assessment?

- How does the Recursive Gloss Overlap algorithm measure the intrinsic merit of a document?

- In what scenarios is the Interview algorithm most effectively applied for evaluating document quality?

- What limitations should be considered when using algorithmic approaches to assess the merit of documents?

➕ Add Next Step

- How do the proposed algorithms differ in their approach to evaluating document impact and relevance?