Time-Matters: Temporal Unfolding of Texts

Motivation:
- Information overload problem
- Abundance of textual content
- Single Doc Timeline Summarization

Contributions:
- Detection of important time references
- Temporal Storyline Components

Features:
- Unsupervised
- Domain / Corpus / Language-Independent

Overview

Demo

Applications

How did we do it?

\[ GTE(t, d) = \text{median}(IS(w_{t, d}), w_t \in W_t) \]

\[ IS(w_{t, d}) = \frac{\sum_{i=0}^{T} \min(D(i, j) + \sum_{j=0}^{T} w_{i, j} \in \text{Domain}(i, j))}{\sum_{i=0}^{T} \sum_{j=0}^{T} \min(D(i, j) + \sum_{j=0}^{T} w_{i, j} \in \text{Domain}(i, j))} \]

where X and Y are the content vectors of \( w_{t, d} \) and \( d \) respectively:

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