



Temporal Relation Extraction from Clinical Narratives
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Abstract

References to phenomena occurring in the world and their timeline characterization can be found in a variety of natural language utterances. For this reason, temporal analysis is a key issue in natural language processing. This project aims to analyze documents in the field of medicine viz. clinical narratives with a strong temporal and chronological perspective. We develop methods and tools to automatically extract significant medical events linked to relevant temporal information from the Electronic Health Records of patients. We aim to create a timeline of the patient's medical history by merging the information extracted from multiple documents concerning the patient. This work addresses the complex problem of temporal analysis of clinical documents with an original approach leveraging information from multiple documents. It is guided by linguistic principles and by the application to retrospective analysis of patient care, which shall facilitate event normalization.