

Knowledge acquiring on event chronology in Russian-language texts

Vera Zabotkina

Russian State University for the Humanities

Mikhail Epifanov

Russian State University for the Humanities

Elena Pozdnyakova

Moscow State Institute of Foreign Relations (University),

Abstract: Chaining the sequence of events through awareness of their temporal relations is an important aspect of text understanding. As a rule, text provides only partial knowledge of event unfolding however various types of additional sources (documents, personal diaries, etc.) provide an added knowledge to make chronology more precise.

The paper argues the novel approach to automated retrieval of information on temporal relations between events marked in the text. The data retrieved will provide additions to computer ontology which formally represents the actual events chronology.

A system of linguistic algorithms for analyzing the contexts with specific verbal (or linguistic situations) inputs is suggested within the present approach. We use syntactic graphs of the sentences and some grammatical characteristics of the words produced by the system for the automatic syntactic analysis of Russian texts.