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12 Automatic grammatical analysis of English
Syntactic parsing based on statistical grammar induction

Abstract— We need to grasp the subject and predicate of sentences to understand English, Japanese and other languages. However, it is not easy for a computer to perform such grammatical analysis automatically. We have developed grammatical analysis software based on the statistical acquisition of grammatical patterns from English resources. We employed this approach for parsing and achieved the best performance on international benchmarks data. In this paper, our aim is to enable computers to understand language and thus support human communication activities. As the first step towards our goal, we expect the grammatical analyzer to be useful for achieving high-quality machine translation and automatic language correction systems.

Automatic grammatical analysis

Analysis A: probability = 0.4

Analysis B: probability = 0.1

Analysis C: probability = 0.7

Grammatical patterns acquisition

Related works

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