



RESEARCH ARTICLE

GENETIC ALGORITHM BASED HINDI WORD SENSE DISAMBIGUATION

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Abstract— Word Sense Disambiguation (WSD) is a problem of computationally determining which “sense” of a word is activated by the use of the word in particular context. To figure out the appropriate meanings of polysemous nouns in the given context Genetic Algorithm is used. This is crucial for various applications like ‘machine translation’, ‘speech processes’ and ‘information retrieval’ etc. while the work on WSD for English is voluminous, to our knowledge, and this is the first attempt of using Genetic Algorithm for Hindi language. Wordnet for Hindi developed at IIT Bombay, a lexical knowledge base for Hindi, is used. The main focus is on removing the ambiguity of the sense using the context by applying Genetic Algorithm.

Key Terms: - Ambiguity; Genetic Algorithm; Hindi Wordnet; Sense Disambiguation; Seed; Word Sense Disambiguation
