

# Extra Linguistic Information needed for Automatic Generation of Sanskrit Compounds: A study

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## Abstract

Compounds play an important role in sanskrit. There are about 400 rules in Aṣṭādhyāyī which deal with the formation of compounds. We have developed a compound generator for sanskrit implementing the Pāṇinian process of compound generation. The rules pertaining to the compound formation are primarily of two types. The rules which designate a term to the input string are termed as *sañjñā sūtrās*. These are implemented as a context free grammar. The sutras which transform the input string are termed as *vidhi sūtrās*. These sūtras specify certain action for a given pattern. This pattern is expressed with a combination of one or more of the following: a) sequence of phonemes, b) morphological analysis of the word, c) meaning of the word, d) ontological category of the word and e) pragmatic information. In this paper we discuss the implementation of compound generator with special reference to the various kind of knowledge required for automatic generation of compounds from its Intermediate Linguistic Expression(alaukikavigraha).