

OriNet : A Lexical tool for Oriya Language Processing

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Abstract:-

To develop a system for understanding and generating a natural language is one of the most research challenge in Artificial Intelligence (AI). A language contains infinite number of sentences and words. Each word have several meaning and similarly each sentence have many and different meaning according to the context. Hence the system should know the meaning of a words and how they contribute to the meaning of a sentence and to the context within which they are used. But it is difficult to decide what information should be stored in a lexicon and even greater difficulties in acquiring this information in proper manner. Hence we have attempted to develop an online lexical database in Oriya language called OriNet (WordNet for Oriya), that has the ability to distinguish a number of different sense of words and to produce synonymy set, called synset, and sentence glosses for these different senses. The OriNet system has been designed by using the object oriented paradigm to increase its extensibility and robustness for dynamic use in Natural Language Processing (NLP) and Machine Translation (MT). It also provides a browser to extract the data from database according to the user queries.

Key words:- OriNet, WordNet, AI, NLP, MT, Synsets and Synonymy.