Abstract

Today we are living in the world of communication. The world of communication interlinks everyone through its various media. In this aspect Computers play a major role by bringing the world under the user's finger tip. Grammar is the legal advocacy to the human art of communication. But learners get annoyed with the language rules and the old teaching methodology. Interlinking the computer to the language through Natural language Processing (NLP) paves a way to solve this problem. The innovative NLP applications are used to generate language learning and teaching tools which enhance the teaching and learning of Grammar. In this paper we present the Grammar teaching tools for analyzing and learning character, word and sentence of Tamil Language. Tools like Character Analyzer for analyzing character, Morphological Analyzer and Generator and Verb Conjugator for the word level analysis and Parts of Speech Tagger, Chunker and Dependency parser for the sentence level analysis were
Natural Language Processing Tools for Tamil Grammar Learning and Teaching

developed using machine learning based technology. These tools are very useful for second language learners to understand the character, word and sentence construction of Tamil language in a non-conceptual way.

Reference

- Joakim Nivre, “Dependency Grammar and Dependency Parsing”
- http://stp.lingfil.uu.se/~nivre/docs/05133.pdf

Index Terms

Computer Science Natural Language Processing
Key words

Grammar Learning and Teaching  Machine Learning

Character Analyzer

Morphological Analyzer and Generator

Verb Conjugator

Parts of Speech Tagger and Chunker

Dependency parser