

The Morphophonemic Rule for Tamil Computing

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Abstract

In recent Tamil computing Scenario various research studied are in process Natural Language Processing(NLP) Voice Recognition, Machine Aided Translation (MAT) and Speech Synthesis etc., are the vital segments in progress. The major problem which the Tamil Computing industry facing is the under development of Computation Linguistics, which plays the back bone role is Natural language processing.

The Morphophonemic Rule or the Sandhi Rule is a key factor for designing a spell-checker or a Machine Aided Translation package. The traditional Grammarians definitions are not sufficient enough to solve the problem, where as even the definition of modern linguist's are not also serving the requirement as they consider the Natural Grammar but for Computerization we need Format Grammar.

For example if we consider the situation of the plural mark suffix / kal /- (°) and the Accusative case or the second case marking suffix -ai results different outputs.

i) / maram / + / kal / - marangal
 tree + plural suffix - trees

ii) / maram / + / - ai / - marathai

In both cares same root word derives differential output. The linguists classifies this with the following rule.

-m --> [f ng] / [f tt]

which is also not sufficient enough . So this paper aims at designing the Sandhi rule to handle especially the Case marker and Pluralizer suffix formations with any root word.