Effect of jumbling the order of letters in a word on reading ability for Indian languages: An eye-tracking study

Bharat Ram Ambati
Language Technologies Research Centre, International Institute of Information Technology, Hyderabad (IIIT-H)

Ganeshwar Rao Dulam
Language Technologies Research Centre, International Institute of Information Technology, Hyderabad (IIIT-H)

Samar Husain
Language Technologies Research Centre, International Institute of Information Technology, Hyderabad (IIIT-H)

Bipin Indurkhya
Cognitive Science Lab, International Institute of Information Technology, Hyderabad (IIIT-H)

Abstract: The paper describes various reading experiments to investigate human reading patterns for Hindi and Telugu. Experiments are based on different types of word jumbling. Results from these experiments bring out some interesting observations which are related to orthography, morphology, syntax, semantics, and discourse. These patterns were noticed across majority of the subjects. Some of these observations are unique to Hindi and Telugu.