

JUSTIFICATION OF AMALGAMATED PATTERN PRIMITIVE VARIABLE FOR LANGUAGE DESCRIPTION BY THE APPLICATION OF HYPERGEOMETRIC DISTRIBUTION

H.S. Dhama & L.K. Verma
Dept. of Mathematics,
University of Kumaun,
Almora Campus,
ALMORA (U.P.) 263601 INDIA

In the present paper the amalgamated pattern primitive variable has been tested for actual sub-languages by the formation of linear expression for distribution function and the application of hypergeometric distribution.

Key words :- Standard language/linear expression/distribution function/amalgamated variable.

INTRODUCTION

Primitives serve as basic pattern elements to provide a compact but adequate description of data in terms of the specified structural relations and this particular behaviour is reflected for language descriptions also. The five parameters identified in earlier studies [4], with reference to Kumauni language, namely, alphabetic counts, computer counts, phonemes, graphemes and allophones have been amalgamated by Dhama [2] for obtaining the standard form of the language by clustering process so as to obtain the value $X_1+X_2+3X_3+2X_4$, Where X_1, X_2, X_3 & X_4 correspond to first four primitives.

Here an attempt is being made to test this obtained value for the four geographical representative sub-languages of Kumauni (language under study) and for this purpose words demonstrating phonetic variations have been selected.