

## DESIGN AND IMPLEMENTATION OF DYADIC SHIFT AND GRAPHICAL INVERSE OF STRING SEQUENCES USING REWRITING CYCLIC NORMAL AUTOMATON

U. M. FERNANDES DIMLO<sup>1</sup> & E. G. RAJAN<sup>2</sup>

<sup>1</sup>Research Scholar, University of Mysore, Karnataka, India

<sup>2</sup>Founder & President, Pentagon Research Center Pvt.LTD, Hyderabad, Andhra Pradesh, India

### ABSTRACT

Algorithms that combine numeric and symbolic computing have been of increasing importance and interest over the past decade. The necessity to work with noisy and imprecise data and for speed and accuracy with algebraic and numerical problems encourages the synergy between two types of computing such as numeric and symbolic. In this paper signals are represented as strings or words which can be stored in computer memory, further normal algorithms are written to perform operations like dyadic shift and graphical inverse signals using rewriting cyclic normal automata.

**KEYWORDS:** RCNA, Normal Algorithms, Substitution Formula