

INFINITE WORD FACTORIZATION AND SIGNAL FLOW GRAPH

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Abstract

This paper illustrates some Fibonacci results for Infinite Word Factorization. The factorization of Fibonacci series with 4-state Automata is generated. The generalized factorization graph of an organism F_n (for $n > 6$) leads to obtain a number of possible directed edges. The Finite State Automaton is converted into a Signal Flow Graph and the steady probability of the automaton at any instant, using Markov process is discussed.

Key Words : Infinite Word, Factorization, Signal Flow graph, Transition Probability Matrix (TPM).