

NEW CRYPTOGRAPHIC SCHEME FOR DIGITAL SIGNALS USING FINITE STATE MACHINES

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Abstract

With wide spread use of information technologies and the rise of digital computer net works in many areas of the world, securing the exchange of information has become a crucial task. Cryptography plays a fundamental role in securing communication. Automata theory is the study of abstract computing devices or machines. In computer science we find many examples of finite state system and the theory of finite state systems, as a useful design tool for these systems.In the present paper, a new cryptographic scheme is proposed using finite state machines with the help of a new function called process switch function which enhances the security of the message.

Keywords : Mealy Machines, key, cryptography and process switch function

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