

An Analysis using DP Automata

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Abstract

This paper try to use the Petri nets properties that are defined for the dP automata in order to understand some real processes in the nature. An example of a garden with some plants will be described using those systems and an analysis about their behavior will be made. The dPA properties will help us to say some things about the plants and how can they survive or how can we make them to get health.

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1 Introduction

Membrane systems is a very investigated domain in membrane computing. Gheorghe Păun was the one who introduce the concept of p-systems. P-systems represent a computational model that describe in an abstract mode the way of the interactions of the chemical processes from one cell with its membrane. A P system is represented through n nested membranes. Each membrane contains objects belonged to an alphabet and rules corresponding to the chemical reactions in the cells.

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