#### FORMAL LANGUAGES & AUTOMATA THEORY

#### Theory of Automata

Theory of automata is a theoretical branch of computer science and mathematical. It is the study of abstract machines and the computation problems that can be solved using these machines. The abstract machine is called the automata. The main motivation behind developing the automata theory was to develop methods to describe and analyse the dynamic behaviour of discrete systems.

This automaton consists of states and transitions. The State is represented by circles, and the Transitions is represented by arrows.

Automata is the kind of machine which takes some string as input and this input goes through a finite number of states and may enter in the final state.

#### Formal language

In mathematics, computer science, and linguistics, a formal language is a set of strings of symbols that may be constrained by rules that are specific to it. The alphabet of a formal language is the set of symbols, letters, or tokens from which the strings of the language may be formed; frequently it is required to be finite

A formal language is often defined by means of a formal grammar such as a regular grammar or context-free grammar, also called its formation rule.

#### Alphabet

- Definition An alphabet is any finite set of symbols.
- Example ∑ = {a, b, c, d} is an alphabet set where 'a', 'b', 'c', and 'd' are symbols.

#### String

- Definition A string is a finite sequence of symbols taken from ∑.
- Example 'cabcad' is a valid string on the alphabet set ∑ = {a, b, c, d}

#### Length of a String

- Definition It is the number of symbols present in a string. (Denoted by ISI).
- Examples
  - □ If S = 'cabcad', |S|= 6
  - $_0$  If |S| = 0, it is called an **empty string** (Denoted by  $\lambda$  or  $\epsilon$ )

#### Kleene Star

- Definition The Kleene star, Σ\*, is a unary operator on a set of symbols or strings, Σ, that gives the infinite set of all possible strings of all possible lengths over Σ including λ.
- Representation ∑\* = ∑0 U ∑1 U ∑2 U ....... where ∑p is the set of all possible strings of length p.

# **Formal Languages Automata Theory Notes**

**Peipei Pang** 

**Formal Languages Automata Theory Notes:** 

### Formal Languages Automata Theory Notes Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Formal Languages Automata Theory Notes**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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