

# 1. Overview of Automata Theory and Proof Methods

Automata theory studies abstract computing devices, or machines

- **Turing machines** were proposed by A. Turing in the 1930s as an abstraction for general-purpose computing machines
- **Finite automata**, which are simpler (less powerful) machines, were proposed in the 1940s and 1950s to model brain functions
- **Formal languages**, which are closely related the **pushdown automata machines**, were proposed by linguist N. Chomsky in the 1950s
- The study of time and space efficiency of programs led to models for **tractable** and **intractable** problems, e.g. NP-complete and NP-hard problems

# Automata Studies

**Xiang Xie**



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