

# Advanced Models of Computation

# Standard Models

- Turing machines
- Programming languages
- Lambda calculus
- Random access machines (RAM)
- Recursive functions
- Type 0 grammars
- Counter machines

# Advanced Models

- Thue systems
- Markov algorithms
- Combinatory logic
- Term rewriting systems

# Concurrent Models

- Parallel RAM (PRAM)
- Cellular automata
- Petri nets
- Actors

# Arcane Models

- Billiard balls
- DNA computing
- Membrane computing
- Quantum algorithms

# Generic Models

- Abstract state machines
- Dynamic cellular automata