

Automata Computability Complexity Solutions

Hierarchy of classes of automata (finite automata, pushdown automata, and Turing machines) Applications to pattern matching, parsing, and programming languages; Computability Theory. Church-Turing thesis (Turing machines as "general-purpose computers") Reduction (solving a problem using a solution for a different problem)

This course provides a challenging introduction to some of the central ideas of theoretical computer science.

Beginning in antiquity, the course will progress through finite automata, circuits and decision trees, Turing machines and computability, efficient algorithms and reducibility, the P versus NP problem, NP-completeness, the power of randomness, cryptography and one-way functions ...

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the course notes Automata and Computability. These notes were written for the course CS345 Automata Theory and Formal Languages taught at Clarkson University. The course is also listed as MA345 and CS541. The solutions are organized according to the same chapters and sections as the notes.

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Introduction to Turing Machines and computability.
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