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Michael Sipser, Introduction to the Theory of Computation (3rd Edition), Thomson
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Computability and Complexity: Theory
and Applications Elaine Rich received her
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Automata theory deals with the definitions and properties of mathematical models of computation. These models play a role in several applied areas of computer science.

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One model, called the finite automaton, is used in text processing , compilers , and hardware design. Another model, called the context free grammar, is used in programming languages and artificial intelligence.

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Why Study Automata Theory? 2

Languages and Strings 1) Consider the
language $L = \{1^n 2^n : n > 0\}$. Is the string

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iii 13.5 Deterministic Context-Free
Languages214

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Complexity theory : 13: Pseudorandom
generators and one-way functions : 14:
Public-key cryptography : 15: More
complexity theory : 16: More NP-
completeness : 17: Probabilistic Turing
machines and complexity classes : 18:
Trapdoor one-way functions and zero-
knowledge proofs : 19: Probably

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approximately correct (PAC) learning :
20: More PAC learning

Lecture Notes | Automata, Computability,
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In theoretical computer science and mathematics, the theory of computation is the branch that deals with what problems

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can be solved on a model of computation, using an algorithm, how efficiently they can be solved or to what degree. The field is divided into three major branches: automata theory and formal languages, computability theory, and computational complexity theory, which are linked by the question: "What are the fundamental

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Theory of computation - Wikipedia

Beginning in antiquity, the course will progress through finite automata, circuits and decision trees, Turing machines and computability, efficient algorithms and

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reducibility, the P versus NP problem, NP-completeness, the power of randomness, cryptography and one-way functions, computational learning theory, and quantum computing.

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Theory and Applications. The theoretical
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standard part of almost every computer
science curriculum. But the classic
treatment of this material isolates it from
the myriad ways in which the theory
influences the design of modern hardware

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Math Background; Working with Logical
Formulas;

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However, [my] initial interest [in automata theory] was increasingly set aside in favor of computational complexity, an exciting fusion of combinatorial methods, inherited from switching theory, with the conceptual arsenal of the theory of algorithms.

Computational complexity theory -

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- Focus on applications – Demonstrates why studying theory will make them better system designers and builders.
- Classic theory combined with new applications – Includes fresh discussion of applications such as computational biology.
- Review of background mathematical concepts (Ch.

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2) – Addresses students' varying backgrounds in discrete mathematics and logic.

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