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The Nature Of Computation. Order @ amazon: The Nature of Computation by Cristopher Moore and Stephan Mertens, Oxford University Press (2011) 985 pages, 900 problems and exercises, 370 figures. Computational complexity is one of the most beautiful fields of modern mathematics, and it is increasingly relevant to other sciences ranging from physics to biology.

The Nature Of Computation

The Nature of Computation is one of those books you can open to a random page and find something amazing, surprising and, often, very funny. (American Scientist) a comprehensive, accessible, and highly enjoyable book that conveys the key intellectual contributions of the theory of computing ... a valuable resource for any educator (Haris Aziz, SIGACT)

The Nature of Computation: Amazon.co.uk: Moore, Cristopher ...

Abstract. Computational complexity is one of the most beautiful fields of modern mathematics, and it is increasingly relevant to other sciences ranging from physics to biology. However, this beauty is often buried underneath layers of unnecessary formalism, and exciting recent results such as interactive proofs, phase transitions, and quantum computing are usually considered too advanced for the typical student.

Nature of Computation - Oxford Scholarship

Christopher Moore + Stephan Mertens. Unlike many texts on the theory of computation, The Nature of Computation doesn't start with a mass of formal definitions and the erection of a lot of scaffolding. Moore and Mertens assume we basically know what computation is, following the Church-Turing thesis, and "use whatever model of computation makes it easiest to convey the key ideas".

The Nature of Computation (Christopher Moore, Stephan Mertens)

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The Nature of Computation | Oxford University Press

In theoretical computer science and mathematics, the theory of computation is the branch that deals with what problems can be solved on a model of computation, using an algorithm, how efficiently they can be solved or to what degree (e.g., approximate solutions versus precise ones). The field is divided into three major branches: automata theory and formal languages, computability theory, and ...

Theory of computation - Wikipedia

Natural computing, also called natural computation, is a terminology introduced to encompass three classes of methods: 1 those that take inspiration from nature for the development of novel problem-solving techniques; 2 those that are based on the use of computers to synthesize natural phenomena; and 3 those that employ natural materials to compute. The main fields of research that compose these three branches are artificial neural networks, evolutionary algorithms, swarm intelligence, artificia

Natural computing - Wikipedia

"The Nature of Computation (TNoC) is a comprehensive, accessible, and highly enjoyable book that conveys the key intellectual contributions of the theory of computing. The project took off as an effort to present theoretical computer science to physicists, but it is equally suitable for any science graduate who is curious to explore beautiful and deep ideas related to the mathematical structure of problems. ...

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The Nature of Computation. by. Cristopher Moore, Stephan Mertens. 4.60 · Rating details · 84 ratings · 3 reviews. Computational complexity is one of the most beautiful fields of modern mathematics, and it is increasingly relevant to other sciences ranging from physics to biology.

The Nature of Computation by Cristopher Moore

The Nature of Computation. Logic, Algorithms, Applications 9th Conference on Computability in Europe, CiE 2013, Milan, Italy, July 1-5, 2013. Proceedings

The Nature of Computation. Logic, Algorithms, Applications ...

Cristopher Moore and Stephan Mertens. Description. Computational complexity is one of the most beautiful fields of modern mathematics, and it is increasingly relevant to other sciences ranging from physics to biology. But this beauty is often buried underneath layers of unnecessary formalism, and exciting recent results like interactive proofs, cryptography, and quantum computing are usually considered too "advanced" to show to the typical student.

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The Nature of Computation is meant to emphasize the special focus of CiE13 on the unexpected and strong changes that studies on Nature have brought in several areas of mathematics, physics, and computer science.