

# Information And Randomness An Algorithmic Perspective Texts In Theoretical Computer Science An Eatcs Series

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## **Information And Randomness An Algorithmic**

The first edition of the monograph Information and Randomness: An Algorithmic Perspective by Crist ian Calude was published in 1994. In my Foreword I said: "The research in algorithmic information theory is already some 30 years old. However, only the recent years have witnessed a really vigorous

## **Information and Randomness - An Algorithmic Perspective ...**

"Information and Randomness: An Algorithmic Perspective" is an outstanding book on Algorithmic Information Theory that is

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accessible to students and useful to active researchers. Cristian Calude is a prolific researcher in this field.

## **Information and Randomness: An Algorithmic Perspective**

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"Professor Calude has produced a first-rate exposition of up-to-date work in information and randomness." D.S. Bridges, Canterbury University, co-author, with Errett Bishop, of Constructive Analysis; "The second edition of this classic work is highly recommended to anyone interested in algorithmic information and randomness."

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"Algorithmic information theory (AIT) is the result of putting Shannon's information theory and Turing's computability theory into a cocktail shaker and shaking vigorously", says G.J. Chaitin, one...

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Cristian Calude The book presents in a mathematical clear way the fundamentals of algorithmic information theory and a few selected applications.

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The first edition of the monograph Information and Randomness: An Algorithmic Perspective by Cristian Calude was published in 1994. In my Foreword I said: "The research in algorithmic information theory is already some 30 years old. However, only the recent years have witnessed a really vigorous growth in this area. . . . The present book by Calude fits very well in our series.

## **Information and Randomness: An Algorithmic Perspective by ...**

Dr. Jan Reimann, University of California, Berkeley. Algorithmic randomness is the study of random individual elements in sample spaces, mostly the set of all infinite binary sequences. An

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algorithmically random element passes all effectively devised tests for randomness.

## **Algorithmic randomness - Scholarpedia**

Intuitively, an algorithmically random sequence is a sequence of binary digits that appears random to any algorithm running on a universal Turing machine. The notion can be applied analogously to sequences on any finite alphabet. Random sequences are key objects of study in algorithmic information theory. As different types of algorithms are sometimes considered, ranging from algorithms with specific bounds on their running time to algorithms which may ask questions of an oracle machine, there a

## **Algorithmically random sequence - Wikipedia**

Algorithmic information theory (AIT) is the information theory of individual objects, using computer science, and concerns itself with the relationship between computation, information, and randomness. The information content or complexity of an object can be measured by the length of its shortest description. For instance the string

## **Algorithmic information theory - Wikipedia**

ALGORITHMIC RANDOMNESS AND PHYSICAL ENTROPY 4733 tent to thermodynamics has been anticipated by a brief but insightful discussion in the seminal paper by Ben-nett. Algorithmic information has also been used to characterize information generated by a dynamically evolving chaotic system. This approach, advocated by Ford, ' focuses on a sequence of states describing a tra-

## **Algorithmic randomness and physical entropy**

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With its ability to quantify the departure of models away from or toward algorithmic randomness by perturbing a piece of data or a system, AID enables the investigation of which elements of the data contribute the most to the information necessary for the underlying causal computable model (the positive information elements) and which elements would trigger an increase in the system's algorithmic complexity (the negative information elements) (Zenil et al., 2019; Zenil et al., 2019b). This ...

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## **Information and randomness : an algorithmic perspective**

... Thus, algorithmic information is sometimes called algorithmic randomness. Randomness and information are formally the same thing. If we want to emphasize the utility or value of some data, we speak of information content. If we want to emphasize a lack of pat- tern or order in some data, we speak of randomness.

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## **Entropy, information, and computation**

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