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An Introduction To Kolmogorov Complexity

In algorithmic information theory, the Kolmogorov complexity of an object, such as a piece of text, is the length of a shortest computer program that produces the object as output. It is a measure of the computational resources needed to specify the object, and is also known as algorithmic complexity, Solomonoff-Kolmogorov-Chaitin complexity, program-size complexity, descriptive complexity, or algorithmic entropy. It is named after Andrey Kolmogorov, who first published on the subject in ...

Kolmogorov complexity - Wikipedia

Kolmogorov complexity is a central concept and a powerful tool in the understanding of the quantitative nature of information and its processing and transmission. Li and Vitanyi's book beautifully captures the elegance of these ideas, their relevance

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to more of computer science and their theoretical as well as practical applications.

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Kolmogorov complexity can be seen as an algorithmic version of entropy. Like for entropy, we can define a conditional version:

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$K(x|y)$ =the shortest computer program (in binary) that transform x into y (the formalization is done as before).
A fundamental result is the symmetry of information (Levin and Kolmogorov ~1970).

An introduction to Kolmogorov complexity (and its ...

Informally, the K -complexity of an object is a measure of computational resources needed to specify the object. This notion has its roots in probability theory, information theory, and philosophical notions of randomness.

An Introduction to Kolmogorov Complexity and Its ...

An Introduction to Kolmogorov Complexity and Its Applications - Ming Li, Paul Vitanyi - Google Books Briefly, we review the basic elements of computability theory and probability theory that are...

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in 1933). Kolmogorov complexity is known variously as 'algorithmic information', 'algorithmic entropy', 'Kolmogorov-Chaitin complexity', 'descriptive complexity', 'shortest program length', 'algorithmic randomness', and others.

An Introduction to Kolmogorov Complexity and Its Applications

An Introduction to Kolmogorov Complexity and Its Applications. Written by two experts in the field, this book is ideal for advanced undergraduate students, graduate students, and researchers in computer science, mathematics, cognitive sciences, philosophy, artificial intelligence, statistics, and physics.

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From the Back Cover This must-read textbook presents an essential introduction to Kolmogorov complexity (KC), a central theory and powerful tool in information science that deals with the quantity of information in individual objects. Skip to main content

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The basic idea behind Kolmogorov complexity is straightforward: a good measure of the complexity of an object is the length of the shortest computer program which will construct that object.

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An Introduction to Kolmogorov Complexity and Its ...

The mathematical theory of computation has given rise to two important approaches to the informal notion of "complexity": Kolmogorov complexity, usually a complexity measure for a single object su

Kolmogorov Complexity and Computational Complexity ...

Quantum mechanical formalism has an orthodox interpretation that relies on the cut between the observer and the system observed Dirac 1930 von Neumann 1932. This "shifty split" Bell 1990 of the world into two parts cannot be removed: the formalism only applies if the observer and the system are demarcated as two separate entities. Physical properties of the system, on one side of the split ...

Quantum Observer and Kolmogorov Complexity

1:18 Kolmogorov Complexity 3:52 Kolmogorov Randomness
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Randomness and Kolmogorov Complexity

Enumerations of the Kolmogorov function Richard Beigel , Harry Buhrman , Peter Fejer , Lance Fortnow , Piotr Grabowski , Luc Longpré , Andrej Muchnik , Frank Stephan , and Leen Torenvliet
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