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

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Introduction. 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. The text covers both the fundamental concepts and the most important practical applications, supported by a wealth of didactic features.

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Kolmogorov complexity can be seen as an algorithmic version of entropy. Like for entropy, we can define a conditional version: $K(x|y)$ = the shortest computer program (in binary) that transforms y into x (the formalization is done as before). A fundamental result is the symmetry of information (Levin and Kolmogorov ~ 1970).

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This textbook 'An Introduction to Kolmogorov Complexity and Its Applications, 4th edition' won the Textbook & Academic Authors Association (TAA) McGuffey Longevity Award in 2020. 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 ...

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