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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 5271.16-2008

Replacing GB/T 5271.16-1986

**Information technology -- Vocabulary -- Part 16: Information
theory**

信息技术 词汇 第16部分：信息论

(English Translation)

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Foreword

GB/T 5271 "Information technology - Vocabulary" is divided into 30 parts.

- Part 1. Basic terminology;
- Part 2. arithmetic and logic operations;
- Part 3. equipment technology;
- Part 4. Organization of data;
- Part 5. data representation;
- Part 6. Preparation and processing of data;
- Part 7. Computer programming;
- Part 8. Security;
- Part 9. data communication;
- Part 10. Operating techniques and facilities;
- Part 29. Artificial intelligence - Speech recognition and synthesis;
- Part 31. Artificial intelligence - Machine learning;
- Part 32. E-mail;
- Part 34. artificial neural networks.

This part of GB/T 5271 Part 16, identical with ISO/IEC 2382-16. Information technology -

Vocabulary Part 16 1996 " Score. information theory "(in English).

This Part replaces GB/T 5271.16-1986 "Data processing - Vocabulary - Part 16 information theory." the main difference between this part and GB/T 5271.16-1986 is a version based on the previous increase of a term, deleted 4 the term.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

1.1 Scope

Information technology to facilitate this part of GB/T 5271 international exchange. This section gives a technique associated with information processing concepts Terms and definitions, and clearly the relationship between these items.

This section GB/T 5271 defines the information theory, the exchange of messages and their associated concepts.

1.2 Principles and rules to follow

Definitions 1.2.1 entries Chapter 2 includes a plurality of entries. Each term by a few essential elements, including the index, a term or several synonymous terms and the definition of the concept of a phrase. In addition, an entry may include, for example, notes or easy to understand concept illustration.

Sometimes the same term by different terms to define, or an entry may include two or more concepts, see the description of each 1.2.5 and 1.2.8.

GB/T 5271 other terms used in this part, such as vocabulary, concepts, terminology and definitions, which has two meanings in GB/T 15237.1 in definition.

1.2.2 Entry composition

Each entry includes the necessary elements specified in 1.2.1, if desired, increase the number of elements. The entry can include the following order Now elements.

- a) index number (for release GB/T 5271 in this section are common to all languages);
- b) a term or terms generally preferred language. The concept of language is generally preferred if there is no express term, then use five points (group A) symbol (...) indicates; in terms, a line of dots used to represent each particular case of the selected word;
- c) a country (according to GB/T 2659 Rules identification) is generally preferred term;
- d) abbreviations of terms;
- e) permit the use of equivalent terms;
- f) the definition of the text (see 1.2.4);

- g) one or several examples of "cases" at the beginning;
- h) the concept of applications to "note" at the beginning of the provision of one or more annotations special circumstances;
- i) Several terms shared images, icons or form.

1.2.3 Entry Classification

A two digit serial number of GB/T 5271 to be assigned for each, for the "basic terms" start with 01.

Entries are classified into groups, each group assigned to a four-digit serial number; the first two digits indicate GB/T 5271 of those parts.

Each entry is assigned to a six-digit index number; the first four digits represent GB/T 5271 and part of those groups.

1.2.4 Select and define the terms of terminology

Select and definitions for terminology as much as possible to follow the established usage. When there is a conflict, the majority agreed to seek solutions.

1.2.5 Ambiguous term

In one of the working languages, if a given term has several meaning, each meaning is given a separate entry, in order to turn Translated into other languages.

GB/T 5271.16-2008/ISO/IEC 2382-16:1996