

SLOVENSKI STANDARD SIST ISO 7098:2017

01-februar-2017

Informatika in dokumentacija - Latinični zapis kitajščine

Information and documentation -- Romanization of Chinese

Information et documentation - Romanisation du chinois VIEW

Ta slovenski standard je istoveten z: ISO 7098:2015

SIST ISO 7098:2017

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ICS:

01.140.10 Pisanje in prečrkovanje Writing and transliteration

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INTERNATIONAL STANDARD

ISO 7098

Third edition 2015-12-15

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Reference number ISO 7098:2015(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 46, *Information and documentation*.

This third edition cancels and replaces the Second 9 edition (ISO 7098:1991), which has been technically revised. https://standards.iteh.ai/catalog/standards/sist/6ba49188-f18d-4e63-bc99-

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Annexes A, B and C form the integral parts of this International Standard.

Introduction

The first edition of ISO 7098 was published in 1982 after ISO/TC 46 recognized the need for an International Standard specifying the Chinese phonetic alphabet. The second edition was published in 1991.

This third edition is in response to new application needs, for instance to reflect current Chinese romanization practice and new developments in China and the rest of the world.

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Information and documentation — Romanization of Chinese

1 Scope

This International Standard explains the principles of the Romanization of Modern Chinese Putonghua (Mandarin Chinese), the official language of the People's Republic of China as defined in the *Directives for the Promotion of Putonghua*, promulgated on 1956-02-06 by the State Council of China. This International Standard can be applied in documentation of bibliographies, catalogues, indices, toponymic lists, etc.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

character

element of a writing system, whether or not alphabetical, that represents a phoneme, a syllable, a word or even prosodic characteristics of the language, by using graphical symbols (letters, diacritical marks, syllabic signs, punctuation marks, prosodic accents, etc.) or a combination of these signs (a letter having an accent or a diacritical mark)

EXAMPLE a, B, ω or Γ are, therefore, characters as well as basic letters.

2.2

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alphabets

ordered character set, the order of which has been agreed upon

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alphabetical characters

character set that contains *letters* (2.8)

2.4

alphanumeric characters

character set that contains both letters (2.8) and digits

2.5

graphic character

character that has a visual representation and is normally produced by writing, printing or displaying

2.6

ideophonographical character

graphic character (2.6) that represents an object or a concept and is associated with a sound element in a natural language

EXAMPLE Chinese hanzi 鹤(crane), Japanese kanji 戦(war) and Korean hanja \boxplus (book) are ideophonographical characters.

2.7

Chinese characters

ideophonographical character set for recording the Chinese language

Note 1 to entry: Chinese characters (hanzi) are also used in the writing systems of other languages.

2.8

letter

graphic character (2.6) that, when appearing alone or combined with others, is primarily used to represent a sound element of a spoken language

2.9

word segmentation

process of splitting text into a sequence of word segmentation unit

[SOURCE: ISO 24614-1:2010, 2.25]

3 General principles of conversion of writing systems

3.1 The words in a language, which are written according to a given script (the converted system), sometimes have to be rendered according to a different system (the conversion system), normally used for a different language.

This operation is often performed for historical or geographical texts, cartographical documents and, in particular, for bibliographical work in every case where it is necessary to write words supplied in various alphabets in a manner that allows intercalation with other words in a single alphabet so as to enable a uniform alphabetization to be made in bibliographies, catalogues, indices, toponymic lists, etc. It is indispensable in that it permits the univocal transmission of a written message between two countries using different writing systems or exchanging a message, the writing of which is different from their own. It, thereby, permits transmission by manual as well as mechanical or electronic means.

The two basic methods of conversion of a system of writing are transliteration and transcription.

3.2 Transliteration is the operation which consists of representing the characters of an entirely alphabetical character or alphanumeric character system of writing by the characters of the conversion alphabet.

In principle, this conversion should be made character by character each character of the converted alphabet is rendered by one character, and one only of the conversion alphabet, to ensure the complete and unambiguous reversibility of the conversion alphabet into the converted alphabet.

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When the number of characters used in the conversion system is smaller than the number of characters of the converted system, it is necessary to use digraphs or diacritical marks. In this case, one shall avoid as far as possible arbitrary choices and the use of purely conventional marks and try to maintain a certain phonetic logic in order to give the system a wide acceptance.

However, it shall be accepted that the graphism obtained may not always be correctly pronounced according to the phonetic habits of the language (or of all the languages) which usually use(s) the conversion alphabet. On the other hand, this graphism shall be such that the reader who knows the converted language may mentally restore unequivocally the original graphism and, thus, pronounce it correctly.

3.3 Retransliteration is the operation which consists of converting the characters of a conversion alphabet to those of the converted alphabet.

This operation is the exact opposite of transliteration; it is carried out by applying the rules of a system of transliteration in reverse order so as to reconstitute the transliterated word to its original form.

3.4 Transcription is the operation which consists of representing the characters of a language, whatever the original system of writing, by the phonetic system of letters or signs of the conversion language.

A transcription system is of necessity based on the orthographical conventions of a conversion language and its alphabet. The users of a transcription system shall, therefore, have a knowledge of the conversion language to be able to pronounce the characters correctly. Transcription is not strictly reversible.

Transcription may be used for the conversion of all writing systems. It is the only method that can be used for systems that are not entirely alphabetical and for all ideophonographic writing systems (Chinese, Japanese, etc.).

3.5 Romanization is the conversion of non-Latin writing systems to the Latin alphabet by means of transliteration or transcription.

To carry out Romanization, it is possible to use either transliteration or transcription or a combination of these two methods, according to the nature of the converted system.

3.6 A conversion system proposed for international use may call for compromise and the sacrifice of certain national customs.

It is, therefore, necessary for each national community of users to accept concessions, fully abstaining in every case from imposing as a matter of course solutions that are actually justified only by national practice (for example, regarding pronunciation, orthography, etc.). However, these concessions would obviously not relate to the use that a country makes of its national writing system: when this national system is not converted, the characters constituting it shall be accepted in the form in which they are written in the national language.

When a country uses two systems univocally, converting one into the other to write its own language, the system of transliteration thus implemented shall be taken a priori as a basis for the international standardized system, as far as it is compatible with the other principles mentioned hereafter.

3.7 Where necessary, the conversion systems should specify an equivalent for each character, not only the letters but also the punctuation marks, numbers, etc.

They should similarly take into account the arrangement of the sequence of characters that make up the text, for example, the direction of the script, and specify the way of distinguishing words and of using separation signs and capital letters, following as closely as possible the customs of the language(s) which use the converted writing system dards.iteh.ai

4 Principles for converting ideophonographic characters

4.1 The structure of ideophonographic characters, where conveyance of meaning is of greater importance than that of pronunciation, entails the existence of a large number of characters (more than 60 000 in the case of Chinese), thus, making sign by sign transliteration impossible and resulting in the need to devise a system of transcription.

Each character shall, therefore, be transcribed by one or more Latin letters standing for the pronunciation or pronunciations of the character in question. This means that the transcriber shall be familiar with the reading or readings of the text to be transcribed.

- **4.2** In as much as the transcription of ideophonographic characters is merely a matter of phonetic notation in Latin letters of characters of the languages which use them, identical characters will require different transcriptions depending on whether they are found in Chinese, Japanese or Korean texts.
- **4.3** On the other hand, the same character within the same language shall always be transcribed in the same way regardless of the type of graphic representation utilized (traditional form or simplified form of a Chinese character), except where a single character has more than one pronunciation.
- **4.4** Reversibility of Romanization systems of ideophonographic characters is impossible due to the following factors:
- the disparity in pronunciation of a given character in two different languages or within a single language;
- the high frequency of homophones within the same language (see Annex C);
- the possible coexistence of several writing systems within a given text.