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

GB/T 36369-2018

**Information and documentation -- Digital object identifier
system**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method identical to the adoption of ISO 26324.2012 "Information and Documentation for a Digital Object Unique Identifier System."

This standard has made the following editorial changes.

--- Added an informative NA (DOI name example), providing practical examples of DOI names for domestic DOI applications.

Reference to domestic users;

--- Terms and definitions, arranged according to the Chinese phonetic alphabet of the term;

--- According to the Chinese language habits, the adjective "persistent" in the international standard was changed to the term "persistence" and the definition was changed accordingly.

Adjustment;

--- Modified the technical error in A.2.1 example 3 to conform to the ISBN standard format;

--- Modify table B.1, table B.2, keep the "core element" column in the original table, and change the column name to "core element (English)";

The "core element" column is translated, and the column name is changed to "core element (Chinese)", and the Chinese characters are arranged in alphabetical order;

--- Removed l. of C.4 because its content is already included in k).

This standard is proposed and managed by the National Information and Documentation Standardization Technical Committee (SAC/TC4).

This standard was drafted by. China Institute of Science and Technology Information, Beijing Wanfang Data Co., Ltd.

Introduction

The Digital Object Unique Identifier (DOI ?? 1) system provides an infrastructure for permanent unique identification of any type of object.

1) DOI is a registered trademark. The relevant information of the registered trademark can be found on the ISO 26324 International Standard Registration Authority provided by the ISO website.

DOI is the abbreviation of DigitalObjectIdentifier, which means "the digitized identifier of the object.

"" instead of "" an identifier of a digital object." In this standard, unless otherwise specified, the term "digital object unique identifier" refers to this standard.

Defined system. The DOI system was initially established by the International DOI Fund in.1998 and is associated with relevant participants of ISO /TC46/SC9.

Joint development. Based on its application in the field of information and documents and previous association with ISO /TC46/SC9-related participants, the DOI system

Established as an ISO standard in.2004, and developed standards from.2006 to.2010.
Published May 1,.2012

ISO 26324 standard.

Since the birth of the DOI system, it has been widely used in China's news publishing, library, scientific research and other industries. Domestic has also been out

A DOI registration agency that provides DOI registration services approved by the ISO 26324 Registration Authority and serves thousands of DOI registrants

And the majority of Internet terminal users to perform services, and participated in the management of ISO 26324 registration management agencies.

The DOI system is designed to work in the Internet environment. A DOI name is permanently assigned to an object, providing information about the

The parsable persistent link of the current information of the object, including the location and information of the object in the Internet. When the subject's relevant information over time

The name of the DOI remains unchanged when it changes. In a DOI system, a DOI name can be parsed into one or more types,

The value of the data associated with the object identified by the DOI name, such as the URL address, email address, other identifiers, and descriptive arity

According to et al.

The DOI system enables the construction of automated services and transactions. Applications of DOI systems include, but are not limited to, management information and documents

Location and access route; manage metadata; implement electronic transactions; permanently identify any form of data; commercial or non-commercial

transaction. The DOI system can provide entities with a parsable, permanent, semantic-level interoperability in a network environment.

A logo, thus providing possibilities for the establishment of automated services and transactions.

The content of an object associated with a DOI name is precisely described by the DOI metadata, which is based on an extensible knot.

Structured data models allow objects to be associated with metadata of any degree of granularity and granularity to support object descriptions and services. The number

The model also supports interoperability between DOI applications.

The scope of the DOI system is not defined by reference to the content type (format, etc.) of the reference, but is provided by the system and

Use the environment as a reference for definition. The DOI system provides unique identification, permanence, resolution, and metadata to the DOI application network.

And semantic interoperability.

Information and literature

Digital object unique identifier system

1 Scope

This standard specifies the syntax, description and resolution functional components of the digital object unique identifier system, as well as the DOI name (DOI is

The abbreviation for "Digital Object Unique Identifier" is the basic principle for creating, registering and managing.

The DOI name can be used to identify any kind of object. When there is a functional requirement, it needs to be distinguished from other objects.

When coming, the DOI name is used as the identification of the object, whether the object is physical or digital, or abstract (such as a text work).

This standard does not specify a specific syntax for executing a digital object unique identifier system, a description, and techniques for parsing functional components.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

Unicode Consortium. Unicode TM Standard 2) (UnicodeConsortium. The UnicodeTM Standard2)

The implementation of the additional constraints.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

DOI name DOIname

The string assigned to the unique object (3.5) in the DOI system (3.2).

Note 1. The name consists of a sequence of characters that conform to the DOI syntax (3.3).

NOTE 2 The terms "identifier" and "number" are sometimes used in the same sense and are sometimes different. Care should be taken to avoid possible confusion.

The use of "DOI" alone is not strict and can also cause ambiguity. Therefore, "DOI" should be used with a specific noun [such as DOI name (3.1), DOI system

Systems (3.2), etc.] cannot be used alone unless their contextual meaning is known.

3.2

DOI system DOIssystem

Through the process of allocation, analysis, indicator description and management described in this standard, the DOI name is implemented in the form of computer understanding.

(As an identifier) Social and technical infrastructure for distribution and management.

3.3

DOI syntax

The structure of the DOI name (3.1) and the character sequence rules, in particular the composition and character rules of the prefix element, delimiter, and suffix elements.