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Spatialized integration model of thematic information

主题信息空间化集成模型

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Basic requirements	2
5 Theme information content	2
5.1 Conceptual model	2
5.2 Feature information	3
5.3 Element relationship information	3
6 Spatial integration model	4
6.1 Spatial integration process	4
6.2 Unified time-space benchmark	5
6.3 Standardization of time information	5
6.4 Spatialization of location information	6
19 Reference	21

Foreword

This guiding technical document was drafted in accordance with the rules given in GB/T 1.1-2009. This guiding technical document was proposed by the Ministry of Natural Resources of the People's Republic of China. This guiding technical document is under the jurisdiction of the National Geographic Information Standardization Technical Committee (SAC/TC230). Drafting organizations of this guiding technical document. Nanjing Normal University, Institute of Geographic Sciences and Natural Resources Research of Chinese Academy of Sciences, Beijing Jianzhu University, Jiangxi University Jiangsu Academy of Surveying and Mapping Engineering, Wuhan University, Peking University, Beijing Normal University, PLA Army Engineering University, National Fundamental Geographic Information Information Center, Nanjing Ubiquitous Geographic Information Industry Research Institute Co., Ltd., Nanjing Wentujing Information Technology Co., Ltd., Nanjing Grand Canyon Information Technology Limited company. The main drafters of this guiding technical document. Zhang Xueying, Lu Guonian, Jiang Jie, Yang Yaping, Hu Di, Wu Mingguang, Yuan Linwang, Yu Zhaoyuan, Zhou Liangchen, Luo Wen, Chen Min, Zhang Shuliang, Long Yi, Zhang Hong, Song Yubing, Ying Shen, Pei Tao, Liu Yu, Dong Weihua, Du Xiao, Ye Peng, Zhao Wenqiang, He Ming.

With the rapid development of information and communication technology, big data has

shown an explosive growth trend, providing a wealth of data for spatio-temporal analysis of subject information. According to resources. Spatially integrate the scattered and fragmented subject information in big data to form an interconnected and orderly subject information set Together, it is helpful for the in-depth mining, development and utilization of big data. This guiding technical document covers the subject information acquisition, organization, management, analysis and service Etc. provide an effective method. Spatial integration model of topic information

1 Scope

GB/Z 40524-2021 is the Chinese national standard on spatialized integration model of thematic information, in the field of natural and applied sciences. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 11 October 2021 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication.

Classification: ICS 07.040, CCS A75. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This technical guidance document specifies the content composition and spatial integration model of the subject information. This technical guidance document is applicable to the subject information acquisition, organization, management, analysis and service of big data.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 2260 Administrative division code of the People's Republic of China

GB/T 7408 Data element and exchange format information exchange date and time representation

GB/T 12409 Geographical Grid

GB/T 18521 Classification of Place Names and Compilation Rules of Type Codes

GB 22021 National Basic Technical Regulations for Geodesy

GB/T 22022 Geographic Information Time Model

GB/T 30170 Geographical Information Coordinate-based Spatial Reference

GB/T 32627 Information technology address data description requirements

GB/T 33185 Geographic information based on geographic identifier spatial reference

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Theme The main body of the data description and its core content.

3.2 Thematic feature The data describes the basic unit of the subject.

3.3 Thematic information Describe the characteristics of the theme elements and their relationships.

3.4 Spatiotemporal datum The basic reference basis and measurement starting data in time and geospatial dimensions. [GB/T 35776-2017, definition 3.3]

3.5 Temporal reference system The frame of reference for measuring time.