INTERNATIONAL STANDARD

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Geographic information — Portrayal

Information géographique — Présentation



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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 Maison 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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The main task of technical contrittees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires applying by at least 75 % of the member bodies casting a vote.

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ISO 19117 was prepared by Technical Committee ISO/TC 211, Geographic information/Geomatics.

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Introduction

This International Standard is an abstract document and is not intended for direct implementation. It gives general guidelines to the application developers about the mechanism to be used to portray the feature instances of a dataset. The portrayal mechanism described makes it possible to have general rules valid for the whole dataset, and at the same time rules valid for a specific value of a feature attribute only. Different computer graphics standards use different attributes to visualize geometric primitives. For example, a line can be distinguished by thickness, width, colour, stippling, anti-aliasing, etc. This International Standard therefore includes a mechanism for declaring portrayal attributes as part of the portrayal specification.

includes a mechanism for declaring portrayal attributes as part of the portrayal specification.

In some cases whole before classes have to be referenced and portrayed in a specific way, e.g. as symbols on nautical charts. Several symbol standards exist, and without a portrayal standard the application would have to set up a separate interface to each of these standards. With this International Standard all the supported symbol standards as the handled in a uniform way.

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Geographic information — Portrayal

1 Scope

This International Standard defines a schema describing the portrayal of geographic information in a form understandable by turns. It includes the methodology for describing symbols and mapping of the schema to an application schema to does not include standardization of cartographic symbols, and their geometric and functional description.

2 Conformance

Any portrayal catalogue and portrayal schema describing the portrayal of geographic information claiming conformance with this International Standard shall pass all the requirements of the abstract test suite presented in Annex A.

3 Normative references

The following referenced documents are indiscensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 19101, Geographic information — Reference mode

ISO/TS 19103:—1), Geographic information — Conceptual Wema language

ISO 19107:2003, Geographic information — Spatial schema

ISO 19109:—1), Geographic information — Rules for application schema

ISO 19115:2003, Geographic information — Metadata

ISO/IEC 19501:2005, Information technology — Open Distributed Processing — Unified Modeling Language (UML) Version 1.4.2

4 Terms and definitions

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

4.1

annotation

any marking on illustrative material for the purpose of clarification

NOTE Numbers, letters, symbols, and signs are examples of annotation.

1) To be published.

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