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Software ergonomics for multimedia user interfaces —

Part 2: Multimedia navigation and control

*Ergonomie des logiciels pour les interfaces utilisateur multimédias —
Partie 2: Navigation et contrôle multimédias*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees 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 approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 14915-2 was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 4, *Ergonomics of human-system interaction*.

ISO 14915 consists of the following parts, under the general title *Software ergonomics for multimedia user interfaces*:

- *Part 1: Design principles and framework*
- *Part 2: Multimedia navigation and control*
- *Part 3: Media selection and combination*

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Introduction

This part of ISO 14915 applies to both the presentation of content and interaction techniques for user control of computer-based multimedia applications in general, including stand-alone and networked-delivered applications. These applications can vary in size and complexity (e.g. a single web page, a catalogue or an interactive simulation).

This part of ISO 14915 provides specific guidance related to multimedia navigation and control that relates to the three aspects inherent in designing multimedia user interfaces identified in ISO 14915-1:

- content design;
- interaction design;
- media design.

Content design is based on the cognitive needs of the various different users and the different tasks involved in an application. Content design also takes into account various approaches to organize the content to provide support for different methods of exploring the content.

Interaction design focuses on the presentation of this content to users and the methods that will be provided to users for them to interact with this content.

Media design focuses on making use of particular media objects to implement the content and interaction designs.

This part of ISO 14915 is concerned with the navigation between, and control of, various media objects, presentation segments, and content chunks. Specific guidance on media design is provided in ISO 14915-3.