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Multimedia systems and equipment – Multimedia e-publishing and e-book technologies –Texture map for auditory presentation of printed texts

INTERNATIONAL
ELECTROTECHNICAL
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CONTENTS

FOREWORD	4
INTRODUCTION	6
1 Scope	7
2 Terms and definitions	7
3 Texture map	7
3.1 Names of elements	7
3.2 Size and data volume.....	9
3.3 Encoding scheme of a texture map from texts	9
3.3.1 General	9
3.3.2 Processing by SpeechioEncode function.....	11
3.3.3 Processing by SpeechioSymbol function.....	12
3.4 Decoding scheme of a texture map to texts.....	13
3.5 Example of use of the functions	15
4 Printing of texture map image	16
4.1 General.....	16
4.2 Size of image.....	16
4.3 Position of the texture map and margin on paper	16
Annex A (informative) Input processing (Japanese texts)	19
A.1 General.....	19
A.2 Removal of control codes for text.....	19
A.3 Specification of particular pronunciation of Kanji	19
A.4 Specification of voice properties	19
Annex B (informative) Input processing (English texts)	22
Annex C (informative) Notch, auditory presentation equipment, and etc.....	23
C.1 Notch to designate a texture map position.....	23
C.2 Printing paper	23
C.3 Printing and printer	23
C.4 Copy.....	24
C.5 Extension to a texture map	24
C.6 Examples of auditory presentation equipment	25
Annex D (informative) Example of Reed Solomon error correction encoding using Galois field GF(2048).....	27
Bibliography.....	42
Figure 1 – Shape and elements of a texture map	8
Figure 2 – Process of generating texture map from texts	10
Figure 3 – Process of text-decoding from texture map	14
Figure 4 – Positioning of texture map and margin in paper.....	17
Figure 5 – Example of texture map arrangement.....	18
Figure C.1 – Notch to designate a texture map position	23
Figure C.2 – A texture map with broken alignment lines on two sides	24
Figure C.3 – A texture map with broken alignment lines on four sides	24
Figure C.4 – An example of auditory presentation equipment: Speechio™	25
Figure C.5 – Another example of auditory presentation equipment: Speechio Plus™	26

Table 1 – Sizes and data volume of texture maps	9
Table 2 – Size of printed texture map.....	16
Table A.1 – Control codes for speech	20
Table A.2 – Characters (character strings) for identifying the end of a sentence	21
Table B.1 – Characters (character strings) for identifying the end of a sentence	22
Table B.2 – Abbreviation or acronym with ".".....	22

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MULTIMEDIA SYSTEMS AND EQUIPMENT – MULTIMEDIA E-PUBLISHING AND E-BOOK TECHNOLOGIES – TEXTURE MAP FOR AUDITORY PRESENTATION OF PRINTED TEXTS

FOREWORD

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International Standard IEC 62665 has been prepared by technical area 10: Multimedia e-publishing and e-book technologies, of IEC technical committee 100: Audio, video and multimedia systems and equipment.

This second edition cancels and replaces the first edition published in 2012 and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition.

- a) Two different control codes are described by the different terms: "control codes for text" and "control codes for speech".
- b) Pack processing and LZSS processing are shown in their additional subclauses.
- c) An example of the header file "Speechio.h" is added.
- d) An example of error correction encoding is shown in additional Annex D.

The text of this standard is based on the following documents:

CDV	Report on voting
100/2431/CDV	100/2507/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

Information interchange via printed documents between blind or visually impaired people has been carried out by using Braille. However, in order to be able to read Braille, particular tuition is required. Learning Braille is very difficult for aged as well as visually non-impaired people.

Printed documents with texts and text-encoded texture maps can be interchanged by ordinary circulation or publication mechanisms. They are readable as ordinary printed materials and comprehensible by blind or visually impaired people with the support of decoding and auditory presentation equipment.

Today, interchanging of printed documents has become wide-spread and international. The text-encoding scheme to generate a texture map should therefore be standardized at an international level.

Patent

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents as listed below:

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MULTIMEDIA SYSTEMS AND EQUIPMENT – MULTIMEDIA E-PUBLISHING AND E-BOOK TECHNOLOGIES – TEXTURE MAP FOR AUDITORY PRESENTATION OF PRINTED TEXTS

1 Scope

In order to generate a texture map for auditory presentation of printed text information, this International Standard specifies

- a text encoding scheme to generate a texture map,
- a physical shape and dimension of the texture map for printing,
- additional features for texture map printing,
- texture map decoding and an auditory presentation of decoded texts.

These specifications enable the interchange of documents and publications between visually impaired and non-impaired people.