ISO/IEC TS 20071-15:2017-12 (E)

Information technology - User interface component accessibility - Part 15: Guidance on scanning visual information for presentation as text in various modalities

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 2

3 Termsanddefinitions 2

4 Conformance 3

5 Overview of scanning visual information for presentation as text in various modalities 3
5.1 General 3
5.2 Contexts for scanning 4
5.3 Framework for scanning 4
5.4 Types of devices 5
5.5 Type of software 6
5.6 Scanning modes 7

6 Guidance on scanning visual information for presentation as text in various modalities 8
6.1 General guidance 8
6.1.1 Provide scanning results according to the purpose 8
6.1.2 Provide scanning results equivalent to the object being scanned 8
6.1.3 Provide focus adjustment 8
6.1.4 Provide exposure adjustment 8
6.1.5 Provide position adjustment 9
6.1.6 Providing distance adjustment 9
6.1.7 Provide orientation adjustment 9
6.1.8 Provide accessible initiation of scanning 9
6.1.9 Provide notification during scanning progress 10
6.1.10 Provide the scanning results in a textual representation 10
6.2 User preference settings 11
6.2.1 Enabling user preference settings 11
6.2.2 Selecting scanning modes 11
6.2.3 Selecting purpose of use 11
6.2.4 Selecting image resolution 11
6.2.5 Selecting image enhancement 11
6.2.6 Controlling presentation of visual guidance 11
6.2.7 Selecting post-processing components 12
6.2.8 Selecting modalities for textual representation 12
6.2.9 Selecting other application(s) to be invoked 12
6.2.10 Storing and retrieving user preferences 12
6.3 Scanning input 12
6.3.1 General 12
6.3.2 Scanning/capturing appropriate images 13
6.3.3 Enhancing image quality 13
6.3.4 Recording scanned images 13
6.3.5 Naming scanned images 14
6.3.6 Retrieving scanned images for processing 14
6.4 Processing 14

6.4.1 General 14
6.4.2 Presenting results of processing 14
6.4.3 Pre-processing: selecting visual objects of interest 14
6.4.4 Post-processing: respecting the context 15
6.5 Output 15
6.5.1 General 15
6.5.2 Presenting accessible scanning results 15
6.5.3 Invoking other applications: passing the scanning results 15
6.5.4 Privacy protection and security 16

Annex A (informative) Scanning visual information for presentation as text in various modalities -- Use cases 17

Annex B (informative) Checklist of recommendations 21

Bibliography 24