ISO/IEC 23000-13:2017-11 (E)

Information technology - Multimedia application format (MPEG-A) - Part 13: Augmented reality application format

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms,definitions,andabbreviatedterms 1
3.1 Terms and definitions 1
3.2 Abbreviated terms 3

4 ARAF principle and context 3

5 ARAF scene description 5
5.1 General 5
5.1.1 Elementary media 7
5.1.2 Programming information 34
5.1.3 User interactivity 35
5.1.4 Scene related information (spatial and temporal relationships) 43
5.1.5 Dynamic and animated scene 98
5.1.6 Communication and compression 102
5.1.7 Terminal 112

6 ARAF for sensors and actuators 113
6.1 General 113
6.1.1 Usage of InputSensor and script nodes 113
6.2 Access to local camera sensor 116
6.3 Usage of outputactuator and script nodes 117
6.3.1 General 117

7 ARAF compression 120

8 Reference software 121
8.1 General 121
8.2 Implementation details 121
8.3 Utility software 122

9 Conformance 122

Annex A (informative) Map related prototypes implementation 125

Annex B (informative) ARAF support for proprietary formats 143

Annex C (informative) ARAF interactive applications description 144

Bibliography 146